



Government of Newfoundland and Labrador
Secretary to Cabinet (Health Issues)

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| Commission of Inquiry Hormone Receptor Testing |
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March 14, 2008

Ms. Sandra Chaytor Q.C.
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Inquiry on Hormone Receptor Testing
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Dear Ms. Chaytor/Mr. Coffey:

Please find enclosed a draft copy of the technical brief on the ER/PR Database. The report contains a short overview of key results and methodological issues. The main part of the report consists of the appendices which contain statistical tables provided by NLCHI based on requests from this office.

The tables do not necessarily address all possible combinations of the data within the database. In particular, the report does not yet include tables on communications, but we expect that to be available in a short time. Hence, the report remains a draft report, and we continue to examine it for editorial changes.

We would be pleased to answer any questions you may have on the content of this draft report.

Sincerely,

A handwritten signature in cursive script that reads "Robert C. Thompson".

ROBERT C. THOMPSON
Secretary to Cabinet (Health Issues)

/lb

Enclosure

Technical Brief on Statistical Tables from
Estrogen Receptor/Progesterone Receptor (ER/PR) Database

DRAFT: March 11, 2008

(This document is an internal working document of the
Office of the Secretary to cabinet (Health Issues))

1. Introduction

This note provides a summary of the statistical tables from the NLCHI ER/PR Database. The tables address clinical issues only. Communications data will be forthcoming.

Throughout this report, references are made to original data from the Eastern Regional Health Authority. It is important to bear in mind that the data represents patients from all regions of the province and that not all of the steps in ER/PR testing take place in the Eastern Health laboratory. For example, tissue extraction and fixation occur at many sites throughout the province before transport to the laboratory, and post-laboratory interpretation and reporting by pathologists occur at many sites as well. Eastern Health collected and reported data on the retesting process for all patients starting in 2005, and therefore the data against which the NLCHI database can be compared was produced by Eastern Health.

Throughout this paper, the terms “case” and “patient” are used interchangeably and mean the same things. The term “tests” refers to ER/PR tests, with the distinction that some “cases” and “patients” had more than one “test” included in the database. The term “original test” refers to a test at the Health Sciences Centre laboratory between 1997 and 2005. A “Mount Sinai test” or “retest” refers to a new test conducted at Mount Sinai Hospital between 2005 and 2008.

A statement about database methodology is contained in Appendix B.

2. Total Cases

Eastern Health reported to the public on December 11, 2006 that there were 939 ER negative patients retested at Mount Sinai. This number was also reported to the Minister of Health and Community Services on November 23, 2006, to the court in affidavits, and to the media and public throughout the period in 2007 leading up to the appointment of the Commission of Inquiry.

The 939 total was explained by Eastern Health as containing all patients who had an ER negative test result performed at Eastern Health between 1997 and August 2005 and subsequently sent to Mount Sinai for retesting. The 939 total included 18 patients with original ER-positive results, meaning that they were ER positive before being sent to Mount Sinai. This is a small anomaly, attributable to specific requests from physicians to have these original ER positive results retested.

Using the same time period and inclusion criteria, NLCHI found 1013 patients, or 74 greater than the number reported by Eastern Health. The difference between the original 939 total and the new 1013 total cannot be explained completely because, as part of the tracking and data management process within Eastern Health, the spreadsheet which originally contained the 939 count was overwritten with updates. Therefore, it is unknown how many cases, or which cases, were present or absent from the older Eastern Health spreadsheets. However, the general explanations for the new, higher total are:

- Some cases were identified by Eastern Health or self-identified by patients after the initial reporting of 939;
- Some cases of deceased individuals were not initially forwarded for testing because of a perception in some RHAs that only living patients needed to be identified;
- The challenges faced by Eastern Health (e.g., multiple information systems from which to identify original ER/PR tests and original test results; multiple channels for submitting retests to Mount Sinai; lack of an overarching information system to integrate records for all unique patients) made it difficult to identify every case.

Within the 1013 patients, or cases, there are 18 original ER positives that were sent to Mount Sinai for retesting. Removing these cases for analytical purposes, there were 995 ER-negative cases for which tissue samples were retested at Mount Sinai.

3. Comparison of Eastern Health's November 23, 2006 Briefing for the Minister with New Database Results.

The briefing by Eastern Health for the Minister of Health and Community Services on November 23, 2006 identified 939 cases of which 763 were living and 176 deceased. While some of the 176 deceased cases had been retested at Mount Sinai, they were not included in the detailed results as the focus was on the results and treatment recommendations for living patients.

If Eastern Health had captured all of the cases that are in the new database, and had it been linked to the Provincial Mortality Database (through NLCHI), 295 people would have been identified as deceased at that time instead of 176. It is important to note that this mortality statistic represents "all cause" mortality, not necessarily cancer-related mortality. As well, this statistic does not infer a relationship between ER/PR retest results and mortality.

In the briefing for the Minister, 104 patients were identified as requiring a treatment change. A matching number in the new database is not available for "treatment change". Such a comparator could be identified by examining additional records which identify treatment recommendations, a step that was not within the scope of this project.

Time frame for Retesting

The date that samples were sent to Mount Sinai can be determined for most of the cases. There are 65 cases where the date of testing cannot be determined from existing records. Out of the remaining 1036 cases, 86.3% were sent in 2005, 3.6% were sent in 2006, 10% were sent in 2007, and 0.1% were sent in 2008.

The reason why there was an increase in cases in 2007 over 2006 was the delay in testing of tissue samples of many deceased patients because of the priority that was given to living patients; identification of some deceased that had been originally omitted due to uncertainty over “inclusion criteria”; the inclusion of cases between January and May 1997 over which it was initially unclear whether they were supposed to be retested; and the identification of additional cases that should have been sent in 2005.

The “date of return” of test results from Mount Sinai Hospital would not necessarily follow the same proportions for each year noted above. In particular, many samples sent in 2005 were returned in 2006. A profile of the “date of return” is not available.

4. Number of Cases and Tests

The first table in Appendix A displays the number of original ER-negative patients by year which were subsequently retested at Mount Sinai Hospital. Out of the total 995 patients, the number of retests was highest for patients who had original tests performed between 1998 and 2002. There were 202 patients tested in the peak year of 2000. The number of negative cases declined substantially in 2004 after the automated Ventana testing system was utilized. Breast tissue samples from all surgical locations in the province were sent to Eastern Health throughout this period, with the exception of Clarendville which has been sending samples for testing outside the province since 1998.

The 995 ER-negative patients account for 1101 tests, all of which were retested at Mount Sinai. In other words, some patients had more than one ER/PR test. Most of the tables in the appendices are based on 1101 tests, which means they represent the group of patients which had original ER-negative results.¹

The full group of “patients” or “cases” in the database is 1013, which is made up of the 995 ER-negative patients and the 18 original ER-positive patients noted in section (2) above. Some of the tables in the appendices focus on this group of 1013 patients because this group is analogous to the 939 patients originally reported by Eastern Health. As well, two sets of tables in the appendices are based on 1120 “tests” which is the set of tests that corresponds to the 1013 patients.

5. Using the Data for Calculating Positivity Rates and Change Rates

¹ The media technical briefing of February 22, 2008 identified 1112 tests for the 995 ER-negative patients. The number of tests has been revised to 1101 for two reasons: 1) to exclude 12 tests which did not have unique original results (Seven patients had 19 blocks sent, but only 7 blocks had an original test *and* retest while the further 12 blocks were not involved in the original test); and 2) to include one unique test and retest for an existing patient. These changes do not affect the number of patients (995) in the database.

a. Data Issues

The following are some methodological points about the database:

1. The set of original negative tests was identified by NLCHI using criteria which ensured the exclusion of: ER/PR tests performed for a reason other than breast cancer, duplicate records and data entry errors that may have been in the original sources.
2. The total number of ER/PR tests performed by Eastern Health was provided by Eastern Health. This number excludes the “non-breast” ER/PR tests in St. John’s (about 4-5% of total tests), but data was not readily available to identify and exclude the non-breast cases from outside St. John’s. This data could be requested from the regional health authorities, but such an effort was outside the scope of this project. It is estimated that this factor outside St. John’s is likely to be less than the 4-5% of samples within St. John’s because sites outside St. John’s have fewer non-breast tissue samples that require ER/PR testing (source: communication, NLCHI and T. Gulliver, Eastern Health).
3. Some of the retest samples were not from the same paraffin blocks that were used to produce the original slides. The number of instances where this happened is believed to be about 5-10% of all tests (source: NLCHI and T. Gulliver, Eastern Health).
4. Between 1997 and 2005 there were 46 ER negative cases (55 tests) which were subsequently identified as DCIS. For purposes of calculating an original positivity rate, these tests should be retained even though DCIS patients are not normally sent for ER/PR testing.² These tests were part of the original set of tests that Eastern Health performed.
5. Depending on the cutoff point used in the statistical tables, some tests could not be interpreted as either negative or positive (the number of such tests varies between cutoff points), and therefore should be excluded from calculations.
6. The original purpose of the retesting process was patient care, not controlled research. Nonetheless, the retest group includes all identified ER-negative cases between 1997 and 2005. The characteristics of the Newfoundland and Labrador population could vary from the characteristics of study groups in the literature, but this issue has not been assessed.

b. Other Issues

The interpretation of the ER/PR database is complex because of the changes over time in the clinical cutoff points used to define positivity, the uncertainty over whether all pathologists were using the same cutoff points, and the distinction between “technical positivity” used in the laboratory environment and “clinical positivity” used in the treatment environment. The following discussion explains how these issues have been addressed in the presentation of data from the ER/PR database.

² DCIS cases are not normally tested for hormone receptivity because they are not normally prescribed hormonal therapy.

Changes in Clinical Cutoff Point

A single required standard for classifying positive and negative ER/PR tests is not used in Newfoundland and Labrador and much disagreement exists throughout the world on the appropriate standards. While there are alternative methods for scoring ER and PR tests, most of the current literature suggests that positivity occurs at the 1% or 10% threshold. In Newfoundland and Labrador, oncologists have generally regarded the 10% threshold as the appropriate threshold since 2001, and they used 30% between 1997 and 2000, though it is uncertain whether there was uniform compliance with these cutoffs. All practitioners agree that, while there is professional disagreement about the right cutoff points, the final determination on a case by case basis, taking into account other patient-related factors, is based on the oncologist's professional opinion. Therefore, for presentation purposes, data from the ER/PR database is presented several ways: 1) a 30%/10% split before and after January 1, 2001 to reflect the clinical environment as practiced in this province; 2) a 10% cutoff for all years and a 1% cutoff for all years to allow for comparisons with the studies which address ER/PR testing. The 1% cutoff is comparable to a "technical" measure of positivity, and is discussed further below.

Uncertainty over Usage of Cutoff Points

The pathology reports show various descriptors used to report positivity and negativity. For example, some reports may say "0/0", which is a clear indication there is 0% staining and therefore a negative tissue sample. Other reports may include less precise descriptors such as "N", or "Neg/Neg", or "Weak Pos". The exact meanings of descriptors have not been determined with each reporting pathologist as part of the database exercise. Therefore, interpretation is necessary, and brings with it the possibility of a small amount of error. The approach used by NLCHI to interpret the descriptors was consistent with the approach used by oncologists.

"Technical Positivity" and "Clinical Positivity"

In the laboratory environment the concept of technical positivity means that there is evidence of staining on an ER or PR slide. Even though the amount of staining may be between 1% and 10%, and therefore in the region which oncologists may say the result is negative, the laboratory regards the test as positive because it has picked up the signal that some receptors exist in the cells.

Clinical positivity is the concept used by oncologists to make treatment decisions. As noted above, the consensus cutoff currently in use, though not necessarily uniformly, is 10%. The state of knowledge is continuously evolving in this area, as is the consensus among oncologists regarding how to use the ER/PR test results when making treatment decisions.³

³ Goldhirsch, A., Wood, W.C., Gelber, R.D., Coates, A.S., Thürlimann B., Senn, H.J. & panel members. (2007). Progress and promise: highlights of the international expert consensus on the primary therapy of early breast cancer 2007. *Annals of Oncology*, 18, 1133-1144.

Analyzing PR

Reports by pathologist, and treatment decisions by oncologists, are based on ER and PR. Both tests provide information for treatment decisions. Interpretation is straightforward for three of the four possible ER/PR combinations: ER+/PR+ is clearly positive; ER-/PR- is clearly negative; and ER+/PR- can be deemed positive based on the clinical significance of the ER test. The approach to ER-/PR+ requires some discussion.

Oncologists at Eastern Health have advised that ER-/PR+ is a result they see periodically and a PR+ result is used when considering hormonal therapy.

This opinion is confirmed by Rhodes (2006), but he identifies a possible technical problem that may accompany a high number of ER-/PR+ results:

In addition to ER, it is possible to demonstrate elevated progesterone receptor (PR) levels in a proportion of breast cancers, although PR alone is not a particularly strong independent indicator of tumour response to hormonal therapy. However, its presence does indicate a functioning hormone receptor pathway and is useful when unexpected results are obtained with the ER assay. For example, only approximately 3% of breast tumours are ER-negative and PR-positive. Therefore, the reporting of a relatively high number of ER-negative, PR-positive cases by a laboratory might indicate a technical problem resulting in false-negative results for ER.

Another opinion by Moshin, et. al. (2004):

...many clinicians depend on ER status alone to select patients for hormonal therapy.
...as compared to ER, PR adds only a limited amount of additional predictive information for response to hormonal therapy.

In assessing the degree of significance of PR in the database, it is also important to note the use of PR in the retesting process by Eastern Health starting in 2005. One of the criteria used by Eastern Health to identify samples for retesting was ER negativity. The positivity or negativity of PR was not a factor. Therefore, samples that originally had ER-/PR+ results, and which may have been regarded as positive by oncologists at the time of a patient's initial treatment recommendation, were also gathered for retesting. Eastern Health has explained this approach as "casting a wider net" because it was not known whether all ER-/PR+ patients were normally being prescribed hormonal therapy, and retesting might result in additional benefit for them.

A potentially confusing issue is Eastern Health's court affidavit in which it reports the number of clinically negative patients based on "ER/PR tests", yet in

another affidavit the number of false negatives is reported as based on “ER test” cutoff points.

To accommodate both perspectives, data is provided in the appendices for ER-negative alone as well as ER/PR together, and both are presented at clinical cutoffs and the technical cutoff.

Calculating a Change Rate

Given that the results of the pathology reports are normally reported as a quantitative score between 0 and 100, it is possible to identify which cases changed from negative to positive and positive to negative based on their original tests and retests. This approach is a statistical approach, not a clinical one, and should not be regarded as a substitute for the work of the tumour panel or other clinical judgments in the retesting process. In particular, the number of changes in the test results is not an indicator of the proportion of patients who should have received alternate treatment. It is important to bear in mind that out of 317 patients who had “changed results” as reported by Eastern Health to the Minister on November 23, 2006, 117 were recommended for a change in treatment.

Change to Ventana Technology

Interpretation of the data should take into account the switch in laboratory technology from the DAKO technology to the automated Ventana technology in 2004.

1998 Data Issue

The data from 1998 are anomalous as compared to other years. This is evident when the ratio of negative tests to total ER/PR tests is calculated. The 1998 ratio is much larger than any other year, without apparent explanation.

c. Results:

Tables from the database are presented in the appendices.

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Appendix E

- ER/PR Literature Reference List

Appendix A:

Section 1: ER/PR Test Results (1101), Original and Mount Sinai Results, Province

| Time Period of Original Test | Number of Cases and Tests by Time Period of Original Test | |
|------------------------------|---|--|
| | Database (Total B) | Database (Total Original negative tests) |
| | # Cases sent for Retests* | # Tests sent for Retests* |
| 1997 | 61 | 66 |
| 1998 | 140 | 160 |
| 1999 | 149 | 165 |
| 2000 | 181 | 197 |
| 2001 | 141 | 152 |
| 2002 | 147 | 161 |
| 2003 | 98 | 109 |
| 2004 | 54 | 64 |
| 2005 (August) | 24 | 27 |
| Total | 995 | 1101 |

*Note: Excludes positives; negative defined as: ≤ 30 from 1997-2000, and ≤ 10 from 2001-2005. Includes tests with unclear original results (i.e. weak positive, equivocal, etc.)

Breakdown of Original ER/PR status by Cut-Off.

| | Based on 30 and 10 | Based on 30 | Based on 10 | Based on 1 |
|-----------------------|--------------------|-------------|-------------|------------|
| Ori ER neg PR neg | 865 | 899 | 797 | 598 |
| Ori ER neg PR pos | 206 | 179 | 214 | 217 |
| Ori ER pos PR neg | -- | -- | 18 | 52 |
| Ori ER pos PR pos | -- | -- | 34 | 232 |
| Ori ER unclear PR neg | 7 | 7 | 10 | -- |
| Ori ER unclear PR pos | 4 | 1 | 4 | 1 |
| Ori ER neg PR unclear | 11 | 10 | 12 | 1 |
| Ori ER pos PR unclear | -- | -- | 1 | -- |
| Ori ER & PR unclear | 8 | 5 | 11 | -- |
| Total | 1101 | 1101 | 1101 | 1101 |

Breakdown of MS ER/PR status by Cut-Off.

| | Based on 30 and 10 | Based on 30 | Based on 10 | Based on 1 |
|-------------------|--------------------|-------------|-------------|------------|
| Ori ER neg PR neg | 577 | 616 | 529 | 475 |
| Ori ER neg PR pos | 39 | 48 | 24 | 9 |
| Ori ER pos PR neg | 186 | 186 | 173 | 126 |
| Ori ER pos PR pos | 223 | 175 | 299 | 415 |
| DCIS | 55 | 55 | 55 | 55 |
| NT/Other | 19 | 19 | 19 | 19 |
| Pending | 2 | 2 | 2 | 2 |
| Total | 1101 | 1101 | 1101 | 1101 |

Province

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | | |
|---|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 49 | 12 | -- | -- | -- | -- | 3 | -- | 2 | 66 |
| 1998 | 124 | 31 | -- | -- | 2 | -- | 3 | -- | -- | 160 |
| 1999 | 130 | 32 | -- | -- | 2 | -- | 1 | -- | -- | 165 |
| 2000 | 165 | 29 | -- | -- | 1 | -- | -- | -- | 2 | 197 |
| 2001 | 113 | 34 | -- | -- | 1 | 3 | 1 | -- | -- | 152 |
| 2002 | 123 | 36 | -- | -- | 1 | -- | 1 | -- | -- | 161 |
| 2003 | 87 | 17 | -- | -- | -- | 1 | 2 | -- | 2 | 109 |
| 2004 | 52 | 11 | -- | -- | -- | -- | -- | -- | 1 | 64 |
| 2005 | 22 | 4 | -- | -- | -- | -- | -- | -- | 1 | 27 |
| Total | 865 | 206 | -- | -- | 7 | 4 | 11 | -- | 8 | 1101 |

| Using a 30 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 49 | 12 | -- | -- | -- | -- | 3 | -- | 2 | 66 |
| 1998 | 124 | 31 | -- | -- | 2 | -- | 3 | -- | -- | 160 |
| 1999 | 130 | 32 | -- | -- | 2 | -- | 1 | -- | -- | 165 |
| 2000 | 165 | 29 | -- | -- | 1 | -- | -- | -- | 2 | 197 |
| 2001 | 123 | 26 | -- | -- | 1 | 1 | 1 | -- | -- | 152 |
| 2002 | 133 | 27 | -- | -- | -- | -- | 1 | -- | -- | 161 |
| 2003 | 96 | 11 | -- | -- | 1 | -- | 1 | -- | -- | 109 |
| 2004 | 55 | 9 | -- | -- | -- | -- | -- | -- | -- | 64 |
| 2005 | 24 | 2 | -- | -- | -- | -- | -- | -- | 1 | 27 |
| Total | 899 | 179 | -- | -- | 7 | 1 | 10 | -- | 5 | 1101 |

| Using a 10 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 47 | 14 | -- | -- | -- | -- | 3 | -- | 2 | 66 |
| 1998 | 100 | 39 | 3 | 11 | 2 | -- | 3 | 1 | 1 | 160 |
| 1999 | 112 | 30 | 5 | 13 | 3 | -- | 1 | -- | 1 | 165 |
| 2000 | 141 | 29 | 10 | 10 | 3 | -- | 1 | -- | 3 | 197 |
| 2001 | 113 | 34 | -- | -- | 1 | 3 | 1 | -- | -- | 152 |
| 2002 | 123 | 36 | -- | -- | 1 | -- | 1 | -- | -- | 161 |
| 2003 | 87 | 17 | -- | -- | -- | 1 | 2 | -- | 2 | 109 |
| 2004 | 52 | 11 | -- | -- | -- | -- | -- | -- | 1 | 64 |
| 2005 | 22 | 4 | -- | -- | -- | -- | -- | -- | 1 | 27 |
| Total | 797 | 214 | 18 | 34 | 10 | 4 | 12 | 1 | 11 | 1101 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | | | |
|---------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 36 | 16 | 5 | 9 | -- | -- | -- | -- | -- | 66 |
| 1998 | 77 | 41 | 9 | 33 | -- | -- | -- | -- | -- | 160 |
| 1999 | 79 | 29 | 10 | 47 | -- | -- | -- | -- | -- | 165 |
| 2000 | 108 | 25 | 14 | 49 | -- | -- | 1 | -- | -- | 197 |
| 2001 | 83 | 36 | 6 | 27 | -- | -- | -- | -- | -- | 152 |
| 2002 | 88 | 41 | 4 | 28 | -- | -- | -- | -- | -- | 161 |
| 2003 | 64 | 14 | 4 | 26 | -- | 1 | -- | -- | -- | 109 |
| 2004 | 43 | 12 | -- | 9 | -- | -- | -- | -- | -- | 64 |
| 2005 | 20 | 3 | -- | 4 | -- | -- | -- | -- | -- | 27 |
| Total | 598 | 217 | 52 | 232 | -- | 1 | 1 | -- | -- | 1101 |

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | |
|---|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 40 | 2 | 10 | 9 | 3 | 2 | -- | 66 |
| 1998 | 83 | 8 | 24 | 30 | 10 | 5 | -- | 160 |
| 1999 | 77 | 13 | 32 | 35 | 8 | -- | -- | 165 |
| 2000 | 108 | 6 | 42 | 28 | 11 | 2 | -- | 197 |
| 2001 | 64 | 3 | 30 | 43 | 8 | 3 | 1 | 152 |
| 2002 | 69 | 4 | 28 | 52 | 5 | 2 | 1 | 161 |
| 2003 | 63 | 1 | 18 | 17 | 7 | 3 | -- | 109 |
| 2004 | 50 | 2 | 2 | 9 | 1 | -- | -- | 64 |
| 2005 | 23 | -- | -- | -- | 2 | 2 | -- | 27 |
| Total | 577 | 39 | 186 | 223 | 55 | 19 | 2 | 1101 |

| Using a 30 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 40 | 2 | 10 | 9 | 3 | 2 | -- | 66 |
| 1998 | 83 | 8 | 24 | 30 | 10 | 5 | -- | 160 |
| 1999 | 77 | 13 | 32 | 35 | 8 | -- | -- | 165 |
| 2000 | 108 | 6 | 42 | 28 | 11 | 2 | -- | 197 |
| 2001 | 75 | 9 | 30 | 26 | 8 | 3 | 1 | 152 |
| 2002 | 80 | 7 | 30 | 36 | 5 | 2 | 1 | 161 |
| 2003 | 78 | -- | 12 | 9 | 7 | 3 | -- | 109 |
| 2004 | 52 | 3 | 6 | 2 | 1 | -- | -- | 64 |
| 2005 | 23 | -- | -- | -- | 2 | 2 | -- | 27 |
| Total | 616 | 48 | 186 | 175 | 55 | 19 | 2 | 1101 |

| Using a 10 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 37 | 1 | 6 | 17 | 3 | 2 | -- | 66 |
| 1998 | 72 | 5 | 21 | 47 | 10 | 5 | -- | 160 |
| 1999 | 60 | 3 | 34 | 60 | 8 | -- | -- | 165 |
| 2000 | 91 | 5 | 34 | 54 | 11 | 2 | -- | 197 |
| 2001 | 64 | 3 | 30 | 43 | 8 | 3 | 1 | 152 |
| 2002 | 69 | 4 | 28 | 52 | 5 | 2 | 1 | 161 |
| 2003 | 63 | 1 | 18 | 17 | 7 | 3 | -- | 109 |
| 2004 | 50 | 2 | 2 | 9 | 1 | -- | -- | 64 |
| 2005 | 23 | -- | -- | -- | 2 | 2 | -- | 27 |
| Total | 529 | 24 | 173 | 299 | 55 | 19 | 2 | 1101 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | |
|---------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 36 | -- | 3 | 22 | 3 | 2 | -- | 66 |
| 1998 | 66 | 1 | 13 | 65 | 10 | 5 | -- | 160 |
| 1999 | 53 | 1 | 20 | 83 | 8 | -- | -- | 165 |
| 2000 | 81 | 2 | 24 | 77 | 11 | 2 | -- | 197 |
| 2001 | 57 | 4 | 20 | 59 | 8 | 3 | 1 | 152 |
| 2002 | 59 | -- | 23 | 71 | 5 | 2 | 1 | 161 |
| 2003 | 54 | 1 | 17 | 27 | 7 | 3 | -- | 109 |
| 2004 | 49 | -- | 3 | 11 | 1 | -- | -- | 64 |
| 2005 | 20 | -- | 3 | -- | 2 | 2 | -- | 27 |
| Total | 475 | 9 | 126 | 415 | 55 | 19 | 2 | 1101 |

Appendix A:

Section 2: ER/PR Test Results (1101), Type of Change, Province

Please note:

- 1) In cases where more than one block was tested and retested, a patient may have had more than one result reported by MS while the health authority reported only one result for those blocks. Therefore, the original result reported by the region was assigned to multiple blocks.**
- 2) Although the tables state whether a patient converted, it does not necessarily reflect inappropriate treatment.**

| Using a 30 and 10 Cut-Off for ER and PR (Total Tests) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 36 | 10 | 8 | 2 | 3 | 2 | 5 | 66 |
| 1998 | 73 | 39 | 21 | 8 | 10 | 5 | 4 | 160 |
| 1999 | 70 | 53 | 24 | 7 | 8 | -- | 3 | 165 |
| 2000 | 103 | 52 | 21 | 5 | 11 | 2 | 3 | 197 |
| 2001 | 61 | 41 | 34 | 3 | 8 | 4 | 1 | 152 |
| 2002 | 69 | 47 | 35 | -- | 5 | 3 | 2 | 161 |
| 2003 | 59 | 21 | 14 | 2 | 7 | 3 | 3 | 109 |
| 2004 | 48 | 3 | 9 | 2 | 1 | -- | 1 | 64 |
| 2005 | 20 | -- | -- | 2 | 2 | 2 | 1 | 27 |
| Total | 539 | 266 | 166 | 31 | 55 | 21 | 23 | 1101 |

¹ Confirmation/Conversion status based on ≤ 30 cut-off from 1997-2000 and ≤ 10 from 2001-2005 for ER and PR.

² Other may include NT, EPAP, or pending MS results.

³ 45 DCIS using this cut-off had an original ER/PR of neg/neg, 7 were neg/pos and 3 had an original negative ER and an unclear original PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤ 30 for 1997-2000 and ≤ 10 from 2001-2005.

| Using a 30 Cut-Off for ER and PR (Total Tests) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 36 | 10 | 8 | 2 | 3 | 2 | 5 | 66 |
| 1998 | 73 | 39 | 21 | 8 | 10 | 5 | 4 | 160 |
| 1999 | 70 | 53 | 24 | 7 | 8 | -- | 3 | 165 |
| 2000 | 103 | 52 | 21 | 5 | 11 | 2 | 3 | 197 |
| 2001 | 72 | 40 | 24 | 3 | 8 | 4 | 1 | 152 |
| 2002 | 77 | 49 | 23 | 3 | 5 | 3 | 1 | 161 |
| 2003 | 73 | 16 | 5 | 4 | 7 | 3 | 1 | 109 |
| 2004 | 51 | 3 | 8 | 1 | 1 | -- | -- | 64 |
| 2005 | 22 | -- | -- | -- | 2 | 2 | 1 | 27 |
| Total | 577 | 262 | 134 | 33 | 55 | 21 | 19 | 1101 |

¹ Confirmation/Conversion status based on ≤ 30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 45 DCIS using this cut-off had an original ER/PR of neg/neg, 7 were neg/pos and 3 had an original negative ER and an unclear original PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤ 30 for 1997-2005.

| Using a 10 Cut-Off for <i>ER and PR</i> (Total Tests) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 33 | 11 | 10 | 2 | 3 | 2 | 5 | 66 |
| 1998 | 63 | 28 | 42 | 7 | 10 | 5 | 5 | 160 |
| 1999 | 53 | 52 | 40 | 7 | 8 | -- | 5 | 165 |
| 2000 | 88 | 45 | 42 | 3 | 11 | 2 | 6 | 197 |
| 2001 | 61 | 41 | 34 | 3 | 8 | 4 | 1 | 152 |
| 2002 | 69 | 47 | 35 | -- | 5 | 3 | 2 | 161 |
| 2003 | 59 | 21 | 14 | 2 | 7 | 3 | 3 | 109 |
| 2004 | 48 | 3 | 9 | 2 | 1 | -- | 1 | 64 |
| 2005 | 20 | -- | -- | 2 | 2 | 2 | 1 | 27 |
| Total | 494 | 248 | 226 | 28 | 55 | 21 | 29 | 1101 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 42 DCIS using this cut-off had an original ER/PR of neg/neg, 6 were neg/pos, 3 pos/pos, 2 had a negative original ER and an unclear original PR, 1 had an unclear original ER and a negative PR, and 1 had an unclear original ER and PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 1 Cut-Off for <i>ER and PR</i> (Total Tests) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 29 | 5 | 20 | 7 | 3 | 2 | -- | 66 |
| 1998 | 50 | 22 | 57 | 16 | 10 | 5 | -- | 160 |
| 1999 | 39 | 33 | 71 | 14 | 8 | -- | -- | 165 |
| 2000 | 66 | 36 | 66 | 15 | 11 | 2 | 1 | 197 |
| 2001 | 48 | 28 | 55 | 9 | 8 | 4 | -- | 152 |
| 2002 | 50 | 32 | 62 | 9 | 5 | 3 | -- | 161 |
| 2003 | 43 | 16 | 29 | 11 | 7 | 3 | -- | 109 |
| 2004 | 40 | 2 | 12 | 9 | 1 | -- | -- | 64 |
| 2005 | 16 | 2 | 1 | 4 | 2 | 2 | -- | 27 |
| Total | 381 | 176 | 373 | 94 | 55 | 21 | 1 | 1101 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 33 DCIS using this cut-off had an original ER/PR of neg/neg, 10 had an original result of pos/pos, 10 were neg/pos, and 2 original result was pos/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Appendix A:

Section 3: ER/PR Patient Results (1013), Original and Mount Sinai, Deceased and Alive

This analysis is based on 1013 unique patients (322 deceased + 691 alive) referred to in the February 22 news release.

Please note that the tables below include analyses that involved using unique patients and the following should be considered:

1) To analyze various scenarios using unique patients that had more than one retest the following criteria was used to determine status:

-if all tests were negative, the patient was confirmed negative;

-if all tests were positive, the patient was confirmed positive;

-if at least one original test was negative and the retest came back as positive, the patient was considered to have converted.

2) In cases where more than one block was tested and retested, a patient may have had more than one result by MS while the health authority reported only one result for those blocks. Therefore, original results reported by the regions were assigned to multiple blocks.

Deceased

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | | |
|---|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 18 | 5 | -- | -- | -- | -- | 2 | -- | -- | 25 |
| 1998 | 36 | 9 | -- | -- | -- | -- | -- | -- | -- | 45 |
| 1999 | 47 | 5 | -- | -- | 1 | -- | 1 | -- | -- | 54 |
| 2000 | 52 | 8 | 1 | -- | -- | -- | -- | -- | -- | 61 |
| 2001 | 35 | 4 | 1 | -- | -- | -- | -- | -- | -- | 40 |
| 2002 | 35 | 3 | 1 | -- | -- | -- | -- | -- | -- | 39 |
| 2003 | 26 | 3 | 1 | -- | -- | -- | 1 | -- | 1 | 32 |
| 2004 | 16 | 4 | -- | -- | -- | -- | -- | -- | 1 | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 269 | 41 | 4 | -- | 1 | -- | 4 | -- | 3 | 322 |

Alive

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | | |
|---|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 30 | 4 | -- | -- | -- | -- | -- | -- | 2 | 36 |
| 1998 | 74 | 18 | 1 | -- | 1 | -- | 2 | -- | -- | 96 |
| 1999 | 70 | 24 | -- | -- | 1 | -- | -- | -- | -- | 95 |
| 2000 | 102 | 16 | -- | 1 | 1 | -- | -- | -- | 2 | 122 |
| 2001 | 72 | 26 | 1 | 2 | 1 | 2 | 1 | -- | -- | 105 |
| 2002 | 75 | 32 | 2 | 1 | 1 | -- | 1 | -- | -- | 112 |
| 2003 | 51 | 13 | 3 | 1 | -- | 1 | 1 | -- | 1 | 71 |
| 2004 | 27 | 6 | 1 | -- | -- | -- | -- | -- | -- | 34 |
| 2005 | 15 | 4 | 1 | -- | -- | -- | -- | -- | -- | 20 |
| Total | 516 | 143 | 9 | 5 | 5 | 3 | 5 | -- | 5 | 691 |

Deceased

| Using a 30 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 18 | 5 | -- | -- | -- | -- | 2 | -- | -- | 25 |
| 1998 | 36 | 9 | -- | -- | -- | -- | -- | -- | -- | 45 |
| 1999 | 47 | 5 | -- | -- | 1 | -- | 1 | -- | -- | 54 |
| 2000 | 52 | 8 | 1 | -- | -- | -- | -- | -- | -- | 61 |
| 2001 | 35 | 4 | 1 | -- | -- | -- | -- | -- | -- | 40 |
| 2002 | 35 | 3 | 1 | -- | -- | -- | -- | -- | -- | 39 |
| 2003 | 30 | 1 | 1 | -- | -- | -- | -- | -- | -- | 32 |
| 2004 | 18 | 3 | -- | -- | -- | -- | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 275 | 38 | 4 | -- | 1 | -- | 3 | -- | 1 | 322 |

Alive

| Using a 30 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 30 | 4 | -- | -- | -- | -- | -- | -- | 2 | 36 |
| 1998 | 74 | 18 | 1 | -- | 1 | -- | 2 | -- | -- | 96 |
| 1999 | 70 | 24 | -- | -- | 1 | -- | -- | -- | -- | 95 |
| 2000 | 102 | 16 | -- | 1 | 1 | -- | -- | -- | 2 | 122 |
| 2001 | 83 | 19 | -- | -- | 1 | 1 | 1 | -- | -- | 105 |
| 2002 | 86 | 25 | -- | -- | -- | -- | 1 | -- | -- | 112 |
| 2003 | 58 | 10 | 1 | -- | 1 | -- | 1 | -- | -- | 71 |
| 2004 | 28 | 5 | 1 | -- | -- | -- | -- | -- | -- | 34 |
| 2005 | 17 | 2 | 1 | -- | -- | -- | -- | -- | -- | 20 |
| Total | 548 | 123 | 4 | 1 | 5 | 1 | 5 | -- | 4 | 691 |

Deceased

| Using a 10 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 16 | 7 | -- | -- | -- | -- | 2 | -- | -- | 25 |
| 1998 | 30 | 9 | 1 | 3 | -- | -- | 1 | 1 | -- | 45 |
| 1999 | 40 | 6 | 3 | 2 | 2 | -- | 1 | -- | -- | 54 |
| 2000 | 45 | 9 | 5 | 1 | 1 | -- | -- | -- | -- | 61 |
| 2001 | 35 | 4 | 1 | -- | -- | -- | -- | -- | -- | 40 |
| 2002 | 35 | 3 | 1 | -- | -- | -- | -- | -- | -- | 39 |
| 2003 | 26 | 3 | 1 | -- | -- | -- | 1 | -- | 1 | 32 |
| 2004 | 16 | 4 | -- | -- | -- | -- | -- | -- | 1 | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 247 | 45 | 12 | 6 | 3 | -- | 5 | 1 | 3 | 322 |

Alive

| Using a 10 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 30 | 4 | -- | -- | -- | -- | -- | -- | 2 | 36 |
| 1998 | 57 | 27 | 3 | 6 | 1 | -- | 1 | -- | 1 | 96 |
| 1999 | 60 | 21 | 2 | 10 | 1 | -- | -- | -- | 1 | 95 |
| 2000 | 86 | 18 | 5 | 7 | 2 | -- | 1 | -- | 3 | 122 |
| 2001 | 72 | 26 | 1 | 2 | 1 | 2 | 1 | -- | -- | 105 |
| 2002 | 75 | 32 | 2 | 1 | 1 | -- | 1 | -- | -- | 112 |
| 2003 | 51 | 13 | 3 | 1 | -- | 1 | 1 | -- | 1 | 71 |
| 2004 | 27 | 6 | 1 | -- | -- | -- | -- | -- | -- | 34 |
| 2005 | 15 | 4 | 1 | -- | -- | -- | -- | -- | -- | 20 |
| Total | 473 | 151 | 18 | 27 | 6 | 3 | 5 | -- | 8 | 691 |

Deceased

| Using a 1 Cut-Off for ER and PR | | | | | | | | | | |
|---------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 11 | 9 | 2 | 3 | -- | -- | -- | -- | -- | 25 |
| 1998 | 23 | 8 | 5 | 9 | -- | -- | -- | -- | -- | 45 |
| 1999 | 27 | 7 | 5 | 15 | -- | -- | -- | -- | -- | 54 |
| 2000 | 35 | 8 | 5 | 13 | -- | -- | -- | -- | -- | 61 |
| 2001 | 24 | 8 | 1 | 7 | -- | -- | -- | -- | -- | 40 |
| 2002 | 29 | 3 | -- | 7 | -- | -- | -- | -- | -- | 39 |
| 2003 | 22 | 1 | 1 | 8 | -- | -- | -- | -- | -- | 32 |
| 2004 | 13 | 4 | -- | 4 | -- | -- | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | 1 | -- | -- | -- | -- | -- | 5 |
| Total | 188 | 48 | 19 | 67 | -- | -- | -- | -- | -- | 322 |

Alive

| Using a 1 Cut-Off for ER and PR | | | | | | | | | | |
|---------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 24 | 5 | 3 | 4 | -- | -- | -- | -- | -- | 36 |
| 1998 | 42 | 29 | 4 | 21 | -- | -- | -- | -- | -- | 96 |
| 1999 | 45 | 18 | 5 | 27 | -- | -- | -- | -- | -- | 95 |
| 2000 | 64 | 16 | 9 | 32 | -- | -- | 1 | -- | -- | 122 |
| 2001 | 55 | 23 | 6 | 21 | -- | -- | -- | -- | -- | 105 |
| 2002 | 49 | 37 | 4 | 22 | -- | -- | -- | -- | -- | 112 |
| 2003 | 37 | 13 | 4 | 16 | -- | 1 | -- | -- | -- | 71 |
| 2004 | 22 | 6 | 1 | 5 | -- | -- | -- | -- | -- | 34 |
| 2005 | 14 | 3 | 1 | 2 | -- | -- | -- | -- | -- | 20 |
| Total | 352 | 150 | 37 | 150 | -- | 1 | 1 | -- | -- | 691 |

Deceased

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | |
|---|------|------|------|------|------|----------|---------|-------|--|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total | |
| | PR- | PR+ | PR- | PR+ | | | | | |
| 1997 | 16 | 1 | 4 | 3 | -- | 1 | -- | 25 | |
| 1998 | 27 | 1 | 9 | 6 | 1 | 1 | -- | 45 | |
| 1999 | 32 | 1 | 13 | 8 | -- | -- | -- | 54 | |
| 2000 | 32 | 1 | 18 | 8 | 2 | -- | -- | 61 | |
| 2001 | 19 | -- | 11 | 7 | 1 | 2 | -- | 40 | |
| 2002 | 20 | - | 10 | 6 | 2 | 1 | -- | 39 | |
| 2003 | 24 | -- | 5 | 2 | -- | 1 | -- | 32 | |
| 2004 | 16 | 2 | 1 | 2 | -- | -- | -- | 21 | |
| 2005 | 5 | -- | -- | -- | -- | -- | -- | 5 | |
| Total | 191 | 6 | 71 | 42 | 6 | 6 | -- | 322 | |

Alive

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | |
|---|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 21 | 1 | 6 | 5 | 3 | -- | -- | 36 |
| 1998 | 43 | 5 | 16 | 21 | 9 | 2 | -- | 96 |
| 1999 | 36 | 11 | 16 | 25 | 7 | -- | -- | 95 |
| 2000 | 66 | 4 | 23 | 21 | 6 | 2 | -- | 122 |
| 2001 | 42 | 4 | 21 | 32 | 5 | 1 | -- | 105 |
| 2002 | 40 | 4 | 21 | 43 | 3 | 1 | -- | 112 |
| 2003 | 34 | 1 | 16 | 13 | 6 | 1 | -- | 71 |
| 2004 | 27 | -- | 1 | 6 | -- | -- | -- | 34 |
| 2005 | 16 | -- | 1 | -- | 1 | 2 | -- | 20 |
| Total | 325 | 30 | 121 | 166 | 40 | 9 | -- | 691 |

Deceased

| Using a 30 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 16 | 1 | 4 | 3 | -- | 1 | -- | 25 |
| 1998 | 27 | 1 | 9 | 6 | 1 | 1 | -- | 45 |
| 1999 | 32 | 1 | 13 | 8 | -- | -- | -- | 54 |
| 2000 | 32 | 1 | 18 | 8 | 2 | -- | -- | 61 |
| 2001 | 21 | 1 | 11 | 4 | 1 | 2 | -- | 40 |
| 2002 | 22 | -- | 9 | 5 | 2 | 1 | -- | 39 |
| 2003 | 28 | -- | 2 | 1 | -- | 1 | -- | 32 |
| 2004 | 17 | 2 | 1 | 1 | -- | -- | -- | 21 |
| 2005 | 5 | -- | -- | -- | -- | -- | -- | 5 |
| Total | 200 | 7 | 67 | 36 | 6 | 6 | -- | 322 |

Alive

| Using a 30 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 21 | 1 | 6 | 5 | 3 | -- | -- | 36 |
| 1998 | 43 | 5 | 16 | 21 | 9 | 2 | -- | 96 |
| 1999 | 36 | 11 | 16 | 25 | 7 | -- | -- | 95 |
| 2000 | 66 | 4 | 23 | 21 | 6 | 2 | -- | 122 |
| 2001 | 51 | 9 | 19 | 20 | 5 | 1 | -- | 105 |
| 2002 | 49 | 7 | 24 | 28 | 3 | 1 | -- | 112 |
| 2003 | 44 | -- | 11 | 9 | 6 | 1 | -- | 71 |
| 2004 | 28 | 1 | 4 | 1 | -- | -- | -- | 34 |
| 2005 | 16 | -- | 1 | -- | 1 | 2 | -- | 20 |
| Total | 354 | 38 | 120 | 130 | 40 | 9 | -- | 691 |

Deceased

| Using a 10 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 14 | -- | 3 | 7 | -- | 1 | -- | 25 |
| 1998 | 24 | 1 | 7 | 11 | 1 | 1 | -- | 45 |
| 1999 | 24 | 1 | 13 | 16 | -- | -- | -- | 54 |
| 2000 | 28 | 1 | 13 | 17 | 2 | -- | -- | 61 |
| 2001 | 19 | -- | 11 | 7 | 1 | 2 | -- | 40 |
| 2002 | 20 | -- | 10 | 6 | 2 | 1 | -- | 39 |
| 2003 | 24 | -- | 5 | 2 | -- | 1 | -- | 32 |
| 2004 | 16 | 2 | 1 | 2 | -- | -- | -- | 21 |
| 2005 | 5 | -- | -- | -- | -- | -- | -- | 5 |
| Total | 174 | 5 | 63 | 68 | 6 | 6 | -- | 322 |

Alive

| Using a 10 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 21 | 1 | 3 | 8 | 3 | -- | -- | 36 |
| 1998 | 38 | 3 | 14 | 30 | 9 | 2 | -- | 96 |
| 1999 | 29 | 2 | 18 | 39 | 7 | -- | -- | 95 |
| 2000 | 54 | 3 | 20 | 37 | 6 | 2 | -- | 122 |
| 2001 | 42 | 4 | 21 | 32 | 5 | 1 | -- | 105 |
| 2002 | 40 | 4 | 21 | 43 | 3 | 1 | -- | 112 |
| 2003 | 34 | 1 | 16 | 13 | 6 | 1 | -- | 71 |
| 2004 | 27 | -- | 1 | 6 | -- | -- | -- | 34 |
| 2005 | 16 | -- | 1 | -- | 1 | 2 | -- | 20 |
| Total | 301 | 18 | 115 | 208 | 40 | 9 | -- | 691 |

Deceased

| Using a 1 Cut-Off for ER and PR | | | | | | | | |
|---------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 13 | -- | 1 | 10 | -- | 1 | -- | 25 |
| 1998 | 23 | -- | 3 | 17 | 1 | 1 | -- | 45 |
| 1999 | 23 | -- | 6 | 25 | -- | -- | -- | 54 |
| 2000 | 27 | 1 | 9 | 22 | 2 | -- | -- | 61 |
| 2001 | 17 | -- | 6 | 14 | 1 | 2 | -- | 40 |
| 2002 | 18 | -- | 8 | 10 | 2 | 1 | -- | 39 |
| 2003 | 20 | -- | 5 | 6 | -- | 1 | -- | 32 |
| 2004 | 15 | -- | 2 | 4 | -- | -- | -- | 21 |
| 2005 | 5 | -- | -- | -- | -- | -- | -- | 5 |
| Total | 161 | 1 | 40 | 108 | 6 | 6 | -- | 322 |

Alive

| Using a 1 Cut-Off for ER and PR | | | | | | | | |
|---------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 21 | -- | 2 | 10 | 3 | -- | -- | 36 |
| 1998 | 33 | 1 | 11 | 40 | 9 | 2 | -- | 96 |
| 1999 | 25 | 1 | 11 | 51 | 7 | -- | -- | 95 |
| 2000 | 47 | 1 | 13 | 53 | 6 | 2 | -- | 122 |
| 2001 | 38 | 4 | 13 | 44 | 5 | 1 | -- | 105 |
| 2002 | 34 | -- | 14 | 60 | 3 | 1 | -- | 112 |
| 2003 | 30 | 1 | 13 | 20 | 6 | 1 | -- | 71 |
| 2004 | 26 | -- | 2 | 6 | -- | -- | -- | 34 |
| 2005 | 13 | -- | 3 | 1 | 1 | 2 | -- | 20 |
| Total | 267 | 8 | 82 | 285 | 40 | 9 | -- | 691 |

Appendix A:

Section 4: ER/PR Patient Results (1013), Type of Change, Deceased and Alive

Please note:

- 1) The tables below involve analyses of unique patients rather than total tests. In order to analyze various scenarios using unique patients that had more than one retest the following criteria was used to determine status:
 - a. If all tests were negative, the patient was confirmed negative;
 - b. If all tests were positive, the patient was confirmed positive;
 - c. If at least one retest showed a change, i.e., an original negative with a retest that was positive, or an original positive with a retest that was negative, than that patient was considered to be converted.
- 2) In cases where more than one block was tested and retested, a patient may have had more than one result reported by MS while the health authority reported only one result for those blocks. Therefore, the original result reported by the region was assigned to multiple blocks.
- 3) Although the tables state whether a patient converted, it does not necessarily reflect inappropriate treatment.

| Using a 30 and 10 Cut-Off for ER and PR (Total A-Deceased) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 14 | 3 | 4 | 1 | -- | 1 | 2 | 25 |
| 1998 | 24 | 11 | 5 | 3 | 1 | 1 | -- | 45 |
| 1999 | 30 | 17 | 3 | 2 | -- | -- | 2 | 54 |
| 2000 | 31 | 19 | 8 | 1 | 2 | -- | -- | 61 |
| 2001 | 19 | 13 | 5 | -- | 1 | 2 | -- | 40 |
| 2002 | 20 | 12 | 4 | -- | 2 | 1 | -- | 39 |
| 2003 | 21 | 4 | 3 | 1 | -- | 1 | 2 | 32 |
| 2004 | 15 | 1 | 3 | 1 | -- | -- | 1 | 21 |
| 2005 | 4 | -- | - | -- | -- | -- | 1 | 5 |
| Total | 178 | 80 | 35 | 9 | 6 | 6 | 8 | 322 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER and PR.

² Other may include NT, EPAP, or pending MS results.

³ All 6 DCIS using this cut-off had an original ER/PR of neg/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 and 10 Cut-Off for ER and PR (Total A-Alive) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 21 | 7 | 3 | -- | 3 | -- | 2 | 36 |
| 1998 | 38 | 27 | 14 | 4 | 9 | 2 | 2 | 96 |
| 1999 | 33 | 31 | 20 | 3 | 7 | -- | 1 | 95 |
| 2000 | 64 | 31 | 14 | 2 | 6 | 2 | 3 | 122 |
| 2001 | 41 | 26 | 30 | 1 | 5 | 1 | 1 | 105 |
| 2002 | 40 | 33 | 33 | -- | 3 | 1 | 2 | 112 |
| 2003 | 32 | 15 | 14 | 2 | 6 | 1 | 1 | 71 |
| 2004 | 25 | 2 | 5 | 2 | -- | -- | -- | 34 |
| 2005 | 14 | -- | 1 | 2 | 1 | 2 | -- | 20 |
| Total | 308 | 172 | 134 | 16 | 40 | 9 | 12 | 691 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER and PR.

² Other may include NT, EPAP, or pending MS results.

³ 32 DCIS using this cut-off had an original ER/PR of neg/neg, 5 had an original result of neg/pos and 3 had a negative original ER and a unclear original PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 Cut-Off for ER and PR (Total A-Deceased) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 14 | 3 | 4 | 1 | -- | 1 | 2 | 25 |
| 1998 | 24 | 11 | 5 | 3 | 1 | 1 | -- | 45 |
| 1999 | 30 | 17 | 3 | 2 | -- | -- | 2 | 54 |
| 2000 | 31 | 19 | 8 | 1 | 2 | -- | -- | 61 |
| 2001 | 21 | 11 | 5 | -- | 1 | 2 | -- | 40 |
| 2002 | 22 | 10 | 4 | -- | 2 | 1 | -- | 39 |
| 2003 | 27 | 2 | 1 | 1 | -- | 1 | -- | 32 |
| 2004 | 17 | 1 | 3 | -- | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 190 | 74 | 33 | 8 | 6 | 6 | 5 | 322 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ All 6 DCIS using this cut-off had an original ER/PR of neg/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 30 Cut-Off for ER and PR (Total A-Alive) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 21 | 7 | 3 | -- | 3 | -- | 2 | 36 |
| 1998 | 38 | 27 | 14 | 4 | 9 | 2 | 2 | 96 |
| 1999 | 33 | 31 | 20 | 3 | 7 | -- | 1 | 95 |
| 2000 | 64 | 31 | 14 | 2 | 6 | 2 | 3 | 122 |
| 2001 | 50 | 28 | 19 | 1 | 5 | 1 | 1 | 105 |
| 2002 | 46 | 37 | 21 | 3 | 3 | 1 | 1 | 112 |
| 2003 | 40 | 14 | 6 | 3 | 6 | 1 | 1 | 71 |
| 2004 | 26 | 2 | 4 | 2 | -- | -- | -- | 34 |
| 2005 | 16 | -- | 1 | -- | 1 | 2 | -- | 20 |
| Total | 334 | 177 | 102 | 18 | 40 | 9 | 11 | 691 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 32 DCIS using this cut-off had an original ER/PR of neg/neg, 5 had an original result of neg/pos and 3 had a negative original ER and a unclear original PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 10 Cut-Off for <i>ER and PR</i> (Total A-Deceased) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 11 | 4 | 5 | 2 | -- | 1 | 2 | 25 |
| 1998 | 21 | 8 | 10 | 3 | 1 | 1 | 1 | 45 |
| 1999 | 21 | 19 | 8 | 3 | -- | -- | 3 | 54 |
| 2000 | 28 | 16 | 15 | -- | 2 | -- | -- | 61 |
| 2001 | 19 | 13 | 5 | -- | 1 | 2 | -- | 40 |
| 2002 | 20 | 12 | 4 | -- | 2 | 1 | -- | 39 |
| 2003 | 21 | 4 | 3 | 1 | -- | 1 | 2 | 32 |
| 2004 | 15 | 1 | 3 | 1 | -- | -- | 1 | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 160 | 77 | 53 | 10 | 6 | 6 | 10 | 322 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 5 DCIS using this cut-off had an original ER/PR of neg/neg, while 1 original result had an unclear original ER (<20) and a negative PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 10 Cut-Off for <i>ER and PR</i> (Total A-Alive) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 21 | 7 | 3 | -- | 3 | -- | 2 | 36 |
| 1998 | 33 | 18 | 28 | 4 | 9 | 2 | 2 | 96 |
| 1999 | 27 | 27 | 30 | 2 | 7 | -- | 2 | 95 |
| 2000 | 52 | 28 | 26 | 2 | 6 | 2 | 6 | 122 |
| 2001 | 41 | 26 | 30 | 1 | 5 | 1 | 1 | 105 |
| 2002 | 40 | 33 | 33 | -- | 3 | 1 | 2 | 112 |
| 2003 | 32 | 15 | 14 | 2 | 6 | 1 | 1 | 71 |
| 2004 | 25 | 2 | 5 | 2 | -- | -- | -- | 34 |
| 2005 | 14 | -- | 1 | 2 | 1 | 2 | -- | 20 |
| Total | 285 | 156 | 170 | 15 | 40 | 9 | 16 | 691 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 30 DCIS using this cut-off had an original ER/PR of neg/neg, 6 had an original result of neg/pos, 1 had an original of pos/pos, 1 had a negative original ER and an unclear original PR and 1 had an unclear original ER and PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 1 Cut-Off for <i>ER and PR</i> (Total A-Deceased) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 8 | 2 | 9 | 5 | -- | 1 | -- | 25 |
| 1998 | 17 | 6 | 14 | 6 | 1 | 1 | -- | 45 |
| 1999 | 16 | 11 | 20 | 7 | -- | -- | -- | 54 |
| 2000 | 22 | 13 | 19 | 5 | 2 | -- | - | 61 |
| 2001 | 15 | 7 | 13 | 2 | 1 | 2 | -- | 40 |
| 2002 | 15 | 11 | 7 | 3 | 2 | 1 | -- | 39 |
| 2003 | 17 | 4 | 7 | 3 | -- | 1 | -- | 32 |
| 2004 | 11 | 2 | 4 | 4 | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | 1 | -- | -- | -- | 5 |
| Total | 125 | 56 | 93 | 36 | 6 | 6 | -- | 322 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 3 DCIS using this cut-off had an original ER/PR of neg/neg, 2 had an original result of pos/pos and 1 original result was pos/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be <1 for 1997-2005.

| Using a 1 Cut-Off for <i>ER and PR</i> (Total A-Alive) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 20 | 3 | 9 | 1 | 3 | -- | -- | 36 |
| 1998 | 24 | 14 | 38 | 9 | 9 | 2 | -- | 96 |
| 1999 | 19 | 20 | 43 | 6 | 7 | -- | -- | 95 |
| 2000 | 38 | 21 | 45 | 9 | 6 | 2 | 1 | 122 |
| 2001 | 32 | 20 | 41 | 6 | 5 | 1 | -- | 105 |
| 2002 | 29 | 19 | 55 | 5 | 3 | 1 | -- | 112 |
| 2003 | 25 | 9 | 25 | 5 | 6 | 1 | -- | 71 |
| 2004 | 22 | -- | 8 | 4 | -- | -- | -- | 34 |
| 2005 | 11 | 2 | 2 | 2 | 1 | 2 | -- | 20 |
| Total | 220 | 108 | 266 | 47 | 40 | 9 | 1 | 691 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 24 DCIS using this cut-off had an original ER/PR of neg/neg, 9 had an original result of neg/pos, 6 had an original result of pos/pos and 1 had an original result of pos/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Appendix A:

Section 5: ER/PR Test Results (1120), Type of Change, Deceased and Alive

Please note:

- 1) In cases where more than one block was tested and retested, a patient may have had more than one result reported by MS while the health authority reported only one result for those blocks. Therefore, the original result reported by the region was assigned to multiple blocks.**
- 2) Although the tables state whether a patient converted, it does not necessarily reflect inappropriate treatment.**

| Using a 30 and 10 Cut-Off for ER and PR (Total Tests-Deceased) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 14 | 3 | 5 | 2 | -- | 1 | 3 | 28 |
| 1998 | 29 | 11 | 6 | 4 | 1 | 3 | -- | 54 |
| 1999 | 32 | 19 | 3 | 2 | -- | -- | 2 | 58 |
| 2000 | 34 | 20 | 8 | 2 | 2 | -- | -- | 66 |
| 2001 | 19 | 14 | 5 | -- | 2 | 3 | -- | 43 |
| 2002 | 25 | 12 | 4 | -- | 2 | 2 | -- | 45 |
| 2003 | 24 | 5 | 4 | 1 | -- | 1 | 2 | 37 |
| 2004 | 15 | 1 | 3 | 1 | -- | -- | 1 | 21 |
| 2005 | 4 | -- | - | -- | -- | -- | 1 | 5 |
| Total | 196 | 85 | 38 | 12 | 7 | 10 | 9 | 357 |

¹ Confirmation/Conversion status based on ≤ 30 cut-off from 1997-2000 and ≤ 10 from 2001-2005 for ER and PR.

² Other may include NT, EPAP, or pending MS results.

³ All 7 DCIS using this cut-off had an original ER/PR of neg/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤ 30 for 1997-2000 and ≤ 10 from 2001-2005.

| Using a 30 and 10 Cut-Off for ER and PR (Total Tests-Alive) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 22 | 7 | 3 | -- | 3 | 1 | 2 | 38 |
| 1998 | 44 | 28 | 16 | 4 | 9 | 2 | 4 | 107 |
| 1999 | 38 | 34 | 21 | 5 | 8 | -- | 1 | 107 |
| 2000 | 69 | 32 | 15 | 3 | 9 | 2 | 3 | 133 |
| 2001 | 42 | 27 | 33 | 3 | 6 | 1 | 1 | 113 |
| 2002 | 44 | 35 | 34 | -- | 3 | 2 | 2 | 120 |
| 2003 | 36 | 16 | 14 | 2 | 7 | 2 | 1 | 78 |
| 2004 | 33 | 2 | 6 | 2 | 1 | -- | -- | 44 |
| 2005 | 16 | -- | 1 | 2 | 2 | 2 | -- | 23 |
| Total | 344 | 181 | 143 | 21 | 48 | 12 | 14 | 763 |

¹ Confirmation/Conversion status based on ≤ 30 cut-off from 1997-2000 and ≤ 10 from 2001-2005 for ER and PR.

² Other may include NT, EPAP, or pending MS results.

³ 38 DCIS using this cut-off had an original ER/PR of neg/neg, 7 had an original result of neg/pos and 3 had a negative original ER and a unclear original PR.

Note: Original ER/PR result reported as “neg” or “N” were considered to be ≤ 30 for 1997-2000 and ≤ 10 from 2001-2005.

| Using a 30 Cut-Off for ER and PR (Total Tests-Deceased) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 14 | 3 | 5 | 2 | -- | 1 | 3 | 28 |
| 1998 | 29 | 11 | 6 | 4 | 1 | 3 | -- | 54 |
| 1999 | 32 | 19 | 3 | 2 | -- | -- | 2 | 58 |
| 2000 | 34 | 20 | 8 | 2 | 2 | -- | -- | 66 |
| 2001 | 21 | 12 | 5 | -- | 2 | 3 | -- | 43 |
| 2002 | 27 | 10 | 4 | -- | 2 | 2 | -- | 45 |
| 2003 | 30 | 3 | 2 | 1 | -- | 1 | -- | 37 |
| 2004 | 17 | 1 | 3 | -- | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 208 | 79 | 36 | 11 | 7 | 10 | 6 | 357 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ All 7 DCIS using this cut-off had an original ER/PR of neg/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 30 Cut-Off for ER and PR (Total Tests-Alive) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 22 | 7 | 3 | -- | 3 | 1 | 2 | 38 |
| 1998 | 44 | 28 | 16 | 4 | 9 | 2 | 4 | 107 |
| 1999 | 38 | 34 | 21 | 5 | 8 | -- | 1 | 107 |
| 2000 | 69 | 32 | 15 | 3 | 9 | 2 | 3 | 133 |
| 2001 | 51 | 30 | 21 | 3 | 6 | 1 | 1 | 113 |
| 2002 | 50 | 40 | 21 | 3 | 3 | 2 | 1 | 120 |
| 2003 | 45 | 14 | 6 | 3 | 7 | 2 | 1 | 78 |
| 2004 | 34 | 2 | 5 | 2 | 1 | -- | -- | 44 |
| 2005 | 18 | -- | 1 | -- | 2 | 2 | -- | 23 |
| Total | 371 | 187 | 109 | 23 | 48 | 12 | 13 | 763 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 38 DCIS using this cut-off had an original ER/PR of neg/neg, 7 had an original result of neg/pos and 3 had a negative original ER and a unclear original PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 10 Cut-Off for <i>ER and PR</i> (Total Tests-Deceased) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 11 | 4 | 7 | 2 | -- | 1 | 3 | 28 |
| 1998 | 26 | 8 | 12 | 3 | 1 | 3 | 1 | 54 |
| 1999 | 23 | 20 | 9 | 3 | -- | -- | 3 | 58 |
| 2000 | 31 | 17 | 15 | 1 | 2 | -- | -- | 66 |
| 2001 | 19 | 14 | 5 | -- | 2 | 3 | -- | 43 |
| 2002 | 25 | 12 | 4 | -- | 2 | 2 | -- | 45 |
| 2003 | 24 | 5 | 4 | 1 | -- | 1 | 2 | 37 |
| 2004 | 15 | 1 | 3 | 1 | -- | -- | 1 | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 178 | 81 | 59 | 11 | 7 | 10 | 11 | 357 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 6 DCIS using this cut-off had an original ER/PR of neg/neg, while 1 original result had an unclear original ER (<20) and a negative PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 10 Cut-Off for <i>ER and PR</i> (Total Tests-Alive) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 22 | 7 | 3 | -- | 3 | 1 | 2 | 38 |
| 1998 | 37 | 20 | 31 | 4 | 9 | 2 | 4 | 107 |
| 1999 | 30 | 32 | 31 | 4 | 8 | -- | 2 | 107 |
| 2000 | 57 | 28 | 29 | 2 | 9 | 2 | 6 | 133 |
| 2001 | 42 | 27 | 33 | 3 | 6 | 1 | 1 | 113 |
| 2002 | 44 | 35 | 34 | -- | 3 | 2 | 2 | 120 |
| 2003 | 36 | 16 | 14 | 2 | 7 | 2 | 1 | 78 |
| 2004 | 33 | 2 | 6 | 2 | 1 | -- | -- | 44 |
| 2005 | 16 | -- | 1 | 2 | 2 | 2 | -- | 23 |
| Total | 317 | 167 | 182 | 19 | 48 | 12 | 18 | 763 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 36 DCIS using this cut-off had an original ER/PR of neg/neg, 6 had an original result of neg/pos, 3 had an original of pos/pos, 2 had a negative original ER and an unclear original PR and 1 had an unclear original ER and PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 1 Cut-Off for <i>ER and PR</i> (Total Tests-Deceased) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 8 | 2 | 11 | 6 | -- | 1 | -- | 28 |
| 1998 | 22 | 6 | 16 | 6 | 1 | 3 | -- | 54 |
| 1999 | 17 | 11 | 22 | 8 | -- | -- | -- | 58 |
| 2000 | 24 | 14 | 20 | 6 | 2 | -- | -- | 66 |
| 2001 | 15 | 8 | 13 | 2 | 2 | 3 | -- | 43 |
| 2002 | 19 | 11 | 7 | 4 | 2 | 2 | -- | 45 |
| 2003 | 17 | 5 | 9 | 5 | -- | 1 | -- | 37 |
| 2004 | 11 | 2 | 4 | 4 | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | 1 | -- | -- | -- | 5 |
| Total | 137 | 59 | 102 | 42 | 7 | 10 | -- | 357 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 3 DCIS using this cut-off had an original ER/PR of neg/neg, 2 had an original result of pos/pos, 1 original result was pos/neg and 1 original result was neg/pos.

Note: Original ER/PR results reported as “neg” or “N” were considered to be <1 for 1997-2005.

| Using a 1 Cut-Off for <i>ER and PR</i> (Total Tests-Alive) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 21 | 3 | 9 | 1 | 3 | 1 | -- | 38 |
| 1998 | 28 | 16 | 42 | 10 | 9 | 2 | -- | 107 |
| 1999 | 22 | 22 | 49 | 6 | 8 | -- | -- | 107 |
| 2000 | 42 | 22 | 48 | 9 | 9 | 2 | 1 | 133 |
| 2001 | 33 | 20 | 46 | 7 | 6 | 1 | -- | 113 |
| 2002 | 31 | 21 | 58 | 5 | 3 | 2 | -- | 120 |
| 2003 | 27 | 11 | 25 | 6 | 7 | 2 | -- | 78 |
| 2004 | 29 | -- | 9 | 5 | 1 | -- | -- | 44 |
| 2005 | 12 | 2 | 2 | 3 | 2 | 2 | -- | 23 |
| Total | 245 | 117 | 288 | 52 | 48 | 12 | 1 | 763 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 30 DCIS using this cut-off had an original ER/PR of neg/neg, 9 had an original result of neg/pos, 8 had an original result of pos/pos and 1 had an original result of pos/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Appendix A:

Section 6: ER/PR Test Results (1101), Type of Change by Region

Please note:

- 4) In cases where more than one block was tested and retested, a patient may have had more than one result reported by MS while the health authority reported only one result for those blocks. Therefore, the original result reported by the region was assigned to multiple blocks.
- 5) Although the tables state whether a patient converted, it does not necessarily reflect inappropriate treatment.

Eastern

| Using a 30 and 10 Cut-Off for <i>ER and PR</i> (Total Tests-Eastern) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 25 | 4 | 5 | -- | 2 | 2 | -- | 38 |
| 1998 | 44 | 21 | 9 | 4 | 4 | 4 | -- | 86 |
| 1999 | 37 | 32 | 10 | 1 | 4 | -- | 2 | 86 |
| 2000 | 64 | 31 | 10 | 3 | 2 | -- | 2 | 112 |
| 2001 | 37 | 30 | 21 | 2 | 4 | 3 | 1 | 98 |
| 2002 | 44 | 29 | 23 | -- | 3 | 3 | 1 | 103 |
| 2003 | 33 | 14 | 7 | 1 | 3 | 2 | -- | 60 |
| 2004 | 23 | 1 | 2 | 1 | -- | -- | -- | 29 |
| 2005 | 12 | -- | -- | 2 | 2 | -- | -- | 16 |
| Total | 321 | 162 | 87 | 14 | 24 | 14 | 6 | 628 |

¹ Confirmation/Conversion status based on ≤ 30 cut-off from 1997-2000 and ≤ 10 from 2001-2005 for ER and PR.

² Other may include NT, EPAP, or pending MS results.

³ 20 DCIS using this cut-off had an original ER/PR of neg/neg, 1 was neg/pos and 3 had an original negative ER and an unclear original PR.

Note: Original ER/PR results reported as "neg" or "N" were considered to be ≤ 30 for 1997-2000 and ≤ 10 from 2001-2005.

| Using a 30 Cut-Off for <i>ER and PR</i> (Total Tests-Eastern) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 25 | 4 | 5 | -- | 2 | 2 | -- | 38 |
| 1998 | 44 | 21 | 9 | 4 | 4 | 4 | -- | 86 |
| 1999 | 37 | 32 | 10 | 1 | 4 | -- | 2 | 86 |
| 2000 | 64 | 31 | 10 | 3 | 2 | -- | 2 | 112 |
| 2001 | 46 | 29 | 13 | 2 | 4 | 3 | 1 | 98 |
| 2002 | 46 | 31 | 18 | 1 | 3 | 3 | 1 | 103 |
| 2003 | 40 | 10 | 2 | 3 | 3 | 2 | -- | 60 |
| 2004 | 27 | -- | 2 | -- | -- | -- | -- | 29 |
| 2005 | 14 | -- | -- | -- | 2 | -- | -- | 16 |
| Total | 343 | 158 | 69 | 14 | 24 | 14 | 6 | 628 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 20 DCIS using this cut-off had an original ER/PR of neg/neg, 1 was neg/pos and 3 had an original negative ER and an unclear original PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 10 Cut-Off for <i>ER and PR</i> (Total Tests-Eastern) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 22 | 5 | 5 | 2 | 2 | 2 | -- | 38 |
| 1998 | 38 | 15 | 18 | 6 | 4 | 4 | 1 | 86 |
| 1999 | 28 | 29 | 20 | 2 | 4 | -- | 3 | 86 |
| 2000 | 57 | 27 | 22 | 2 | 2 | -- | 2 | 112 |
| 2001 | 37 | 30 | 21 | 2 | 4 | 3 | 1 | 98 |
| 2002 | 44 | 29 | 23 | -- | 3 | 3 | 1 | 103 |
| 2003 | 33 | 14 | 7 | 1 | 3 | 2 | -- | 60 |
| 2004 | 25 | 1 | 2 | 1 | -- | -- | -- | 29 |
| 2005 | 12 | -- | -- | 2 | 2 | -- | -- | 16 |
| Total | 296 | 150 | 118 | 18 | 24 | 14 | 8 | 628 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 20 DCIS using this cut-off had an original ER/PR of neg/neg, 2 were neg/pos, and 2 had a negative original ER and an unclear original PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 1 Cut-Off for <i>ER and PR</i> (Total Tests-Eastern) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 20 | 3 | 8 | 3 | 2 | 2 | -- | 38 |
| 1998 | 28 | 11 | 27 | 12 | 4 | 4 | -- | 86 |
| 1999 | 21 | 19 | 37 | 5 | 4 | -- | -- | 86 |
| 2000 | 47 | 23 | 35 | 5 | 2 | -- | -- | 112 |
| 2001 | 33 | 22 | 33 | 3 | 4 | 3 | -- | 98 |
| 2002 | 36 | 25 | 36 | -- | 3 | 3 | -- | 103 |
| 2003 | 27 | 12 | 14 | 2 | 3 | 2 | -- | 60 |
| 2004 | 21 | 2 | 2 | 4 | -- | -- | -- | 29 |
| 2005 | 10 | 1 | 1 | 2 | 2 | -- | -- | 16 |
| Total | 243 | 118 | 193 | 36 | 24 | 14 | -- | 628 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 18 DCIS using this cut-off had an original ER/PR of neg/neg, 5 had an original result of neg/pos, and 1 original result was pos/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Central

| Using a 30 and 10 Cut-Off for <i>ER and PR</i> (Total Tests-Central) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 4 | -- | -- | 2 | -- | -- | 5 | 11 |
| 1998 | 16 | 10 | 6 | 2 | 3 | -- | 2 | 39 |
| 1999 | 16 | 8 | 4 | 3 | 1 | -- | -- | 32 |
| 2000 | 22 | 11 | 5 | -- | 3 | 1 | -- | 42 |
| 2001 | 11 | 3 | 5 | 1 | -- | -- | -- | 20 |
| 2002 | 12 | 9 | 6 | -- | -- | -- | 1 | 28 |
| 2003 | 11 | 4 | 4 | 1 | 3 | -- | 2 | 25 |
| 2004 | 6 | 2 | 5 | 1 | -- | -- | 1 | 15 |
| 2005 | 1 | -- | -- | -- | -- | 2 | -- | 3 |
| Total | 99 | 47 | 35 | 10 | 10 | 3 | 11 | 215 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER and PR.

² Other may include NT, EPAP, or pending MS results.

³ 9 DCIS using this cut-off had an original ER/PR of neg/neg, and 1 was neg/pos.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 Cut-Off for ER and PR (Total Tests-Central) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 4 | -- | -- | 2 | -- | -- | 5 | 11 |
| 1998 | 16 | 10 | 6 | 2 | 3 | -- | 2 | 39 |
| 1999 | 16 | 8 | 4 | 3 | 1 | -- | -- | 32 |
| 2000 | 22 | 11 | 5 | -- | 3 | 1 | -- | 42 |
| 2001 | 11 | 3 | 5 | 1 | -- | -- | -- | 20 |
| 2002 | 15 | 10 | 1 | 2 | -- | -- | -- | 28 |
| 2003 | 15 | 4 | 2 | 1 | 3 | -- | -- | 25 |
| 2004 | 7 | 3 | 4 | 1 | -- | -- | -- | 15 |
| 2005 | 1 | -- | -- | -- | -- | 2 | -- | 3 |
| Total | 107 | 49 | 27 | 12 | 10 | 3 | 7 | 215 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 9 DCIS using this cut-off had an original ER/PR of neg/neg, and 1 was neg/pos.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 10 Cut-Off for ER and PR (Total Tests-Central) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 4 | -- | 2 | -- | -- | -- | 5 | 11 |
| 1998 | 15 | 5 | 14 | -- | 3 | -- | 2 | 39 |
| 1999 | 11 | 10 | 6 | 3 | 1 | -- | 1 | 32 |
| 2000 | 17 | 9 | 9 | 1 | 3 | 1 | 2 | 42 |
| 2001 | 11 | 3 | 5 | 1 | -- | -- | -- | 20 |
| 2002 | 12 | 9 | 6 | -- | -- | -- | 1 | 28 |
| 2003 | 11 | 4 | 4 | 1 | 3 | -- | 2 | 25 |
| 2004 | 6 | 2 | 5 | 1 | -- | -- | 1 | 15 |
| 2005 | 1 | -- | -- | -- | -- | 2 | -- | 3 |
| Total | 88 | 42 | 51 | 7 | 10 | 3 | 14 | 215 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 8 DCIS using this cut-off had an original ER/PR of neg/neg, 1 was pos/pos, and 1 had an unclear original ER and PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 1 Cut-Off for <i>ER and PR</i> (Total Tests-Central) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 3 | -- | 5 | 3 | -- | -- | -- | 11 |
| 1998 | 14 | 2 | 19 | 1 | 3 | -- | -- | 39 |
| 1999 | 6 | 5 | 13 | 7 | 1 | -- | -- | 32 |
| 2000 | 6 | 3 | 18 | 10 | 3 | 1 | 1 | 42 |
| 2001 | 6 | 1 | 8 | 5 | -- | -- | -- | 20 |
| 2002 | 6 | 1 | 15 | 6 | -- | -- | -- | 28 |
| 2003 | 4 | 2 | 9 | 7 | 3 | -- | -- | 25 |
| 2004 | 3 | -- | 8 | 4 | -- | -- | -- | 15 |
| 2005 | -- | -- | -- | 1 | -- | 2 | -- | 3 |
| Total | 48 | 14 | 95 | 44 | 10 | 3 | 1 | 215 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 4 DCIS using this cut-off had an original ER/PR of neg/neg, and 6 had an original result of pos/pos.

Note: Original ER/PR results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Western

| Using a 30 and 10 Cut-Off for <i>ER and PR</i> (Total Tests-Western) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 6 | 6 | 3 | -- | 1 | -- | -- | 16 |
| 1998 | 11 | 6 | 6 | 2 | 3 | 1 | 2 | 31 |
| 1999 | 14 | 11 | 9 | 3 | 2 | -- | 1 | 40 |
| 2000 | 14 | 7 | 4 | 2 | 6 | 1 | 1 | 35 |
| 2001 | 11 | 6 | 8 | -- | 4 | -- | -- | 29 |
| 2002 | 9 | 6 | 5 | -- | 2 | -- | -- | 22 |
| 2003 | 14 | 1 | 3 | -- | 1 | 1 | 1 | 21 |
| 2004 | 14 | -- | 2 | -- | 1 | -- | -- | 17 |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | 7 |
| Total | 100 | 43 | 40 | 7 | 20 | 3 | 5 | 218 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER and PR.

² Other may include NT, EPAP, or pending MS results.

³ 15 DCIS using this cut-off had an original ER/PR of neg/neg, and 5 were neg/pos.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 Cut-Off for <i>ER and PR</i> (Total Tests-Western) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 6 | 6 | 3 | -- | 1 | -- | -- | 16 |
| 1998 | 11 | 6 | 6 | 2 | 3 | 1 | 2 | 31 |
| 1999 | 14 | 11 | 9 | 3 | 2 | -- | 1 | 40 |
| 2000 | 14 | 7 | 4 | 2 | 6 | 1 | 1 | 35 |
| 2001 | 12 | 7 | 6 | -- | 4 | -- | -- | 29 |
| 2002 | 11 | 6 | 3 | -- | 2 | -- | -- | 22 |
| 2003 | 15 | 2 | 1 | -- | 1 | 1 | 1 | 21 |
| 2004 | 14 | -- | 2 | -- | 1 | -- | -- | 17 |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | 7 |
| Total | 104 | 45 | 34 | 7 | 20 | 3 | 5 | 218 |

¹ Confirmation/Conversion status based on ≤ 30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 15 DCIS using this cut-off had an original ER/PR of neg/neg, and 5 were neg/pos.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤ 30 for 1997-2005.

| Using a 10 Cut-Off for <i>ER and PR</i> (Total Tests-Western) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 6 | 6 | 3 | -- | 1 | -- | -- | 16 |
| 1998 | 8 | 6 | 10 | 1 | 3 | 1 | 2 | 31 |
| 1999 | 11 | 11 | 13 | 2 | 2 | -- | 1 | 40 |
| 2000 | 13 | 5 | 9 | -- | 6 | 1 | 1 | 35 |
| 2001 | 11 | 6 | 8 | -- | 4 | -- | -- | 29 |
| 2002 | 9 | 6 | 5 | -- | 2 | -- | -- | 22 |
| 2003 | 14 | 1 | 3 | -- | 1 | 1 | 1 | 21 |
| 2004 | 14 | -- | 2 | -- | 1 | -- | -- | 17 |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | 7 |
| Total | 93 | 41 | 53 | 3 | 20 | 3 | 5 | 218 |

¹ Confirmation/Conversion status based on ≤ 10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 13 DCIS using this cut-off had an original ER/PR of neg/neg, 4 were neg/pos, 2 were pos/pos, and 1 had an unclear original ER and a negative PR.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤ 10 for 1997-2005.

| Using a 1 Cut-Off for <i>ER and PR</i> (Total Tests-Western) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 5 | 2 | 7 | 1 | 1 | -- | -- | 16 |
| 1998 | 7 | 6 | 11 | 3 | 3 | 1 | -- | 31 |
| 1999 | 9 | 7 | 20 | 2 | 2 | -- | -- | 40 |
| 2000 | 12 | 6 | 10 | -- | 6 | 1 | -- | 35 |
| 2001 | 7 | 5 | 12 | 1 | 4 | -- | -- | 29 |
| 2002 | 5 | 2 | 10 | 3 | 2 | -- | -- | 22 |
| 2003 | 12 | -- | 6 | 1 | 1 | 1 | -- | 21 |
| 2004 | 14 | -- | 2 | -- | 1 | -- | -- | 17 |
| 2005 | 6 | 1 | -- | -- | -- | -- | -- | 7 |
| Total | 77 | 29 | 78 | 11 | 20 | 3 | -- | 218 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 10 DCIS using this cut-off had an original ER/PR of neg/neg, 5 had an original result of neg/pos, 4 were pos/pos, and 1 original result was pos/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Lab/Grenfell

| Using a 30 and 10 Cut-Off for <i>ER and PR</i> (Total Tests-Lab/Grenfell) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 2 | 2 | -- | -- | -- | -- | -- | 4 |
| 1999 | 3 | 2 | 1 | -- | 1 | -- | -- | 7 |
| 2000 | 3 | 3 | 2 | -- | -- | -- | -- | 8 |
| 2001 | 2 | 2 | -- | -- | -- | 1 | -- | 5 |
| 2002 | 4 | 3 | 1 | -- | -- | -- | -- | 8 |
| 2003 | 1 | 2 | -- | -- | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | -- | -- | -- | -- | -- | -- | 1 | 1 |
| Total | 19 | 14 | 4 | -- | 1 | 1 | 1 | 40 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER and PR.

² Other may include NT, EPAP, or pending MS results.

³ 1 DCIS using this cut-off had an original ER/PR of neg/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 Cut-Off for <i>ER and PR</i> (Total Tests-Lab/Grenfell) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 2 | 2 | -- | -- | -- | -- | -- | 4 |
| 1999 | 3 | 2 | 1 | -- | 1 | -- | -- | 7 |
| 2000 | 3 | 3 | 2 | -- | -- | -- | -- | 8 |
| 2001 | 3 | 1 | -- | -- | -- | 1 | -- | 5 |
| 2002 | 5 | 2 | 1 | -- | -- | -- | -- | 8 |
| 2003 | 3 | -- | -- | -- | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | -- | -- | -- | -- | -- | -- | 1 | 1 |
| Total | 23 | 10 | 4 | -- | 1 | 1 | 1 | 40 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 1 DCIS using this cut-off had an original ER/PR of neg/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 10 Cut-Off for <i>ER and PR</i> (Total Tests-Lab/Grenfell) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 2 | 2 | -- | -- | -- | -- | -- | 4 |
| 1999 | 3 | 2 | 1 | -- | 1 | -- | -- | 7 |
| 2000 | 1 | 4 | 2 | -- | -- | -- | 1 | 8 |
| 2001 | 2 | 2 | -- | -- | -- | 1 | -- | 5 |
| 2002 | 4 | 3 | 1 | -- | -- | -- | -- | 8 |
| 2003 | 1 | 2 | -- | -- | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | -- | -- | -- | -- | -- | -- | 1 | 1 |
| Total | 17 | 15 | 4 | -- | 1 | 1 | 2 | 40 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 1 DCIS using this cut-off had an original ER/PR of neg/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 1 Cut-Off for <i>ER and PR</i> (Total Tests-Lab/Grenfell) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 1 | 3 | -- | -- | -- | -- | -- | 4 |
| 1999 | 3 | 2 | 1 | -- | 1 | -- | -- | 7 |
| 2000 | 1 | 4 | 3 | -- | -- | -- | -- | 8 |
| 2001 | 2 | -- | 2 | -- | -- | 1 | -- | 5 |
| 2002 | 3 | 4 | 1 | -- | -- | -- | -- | 8 |
| 2003 | -- | 2 | -- | 1 | -- | -- | -- | 3 |
| 2004 | 2 | -- | -- | 1 | -- | -- | -- | 3 |
| 2005 | -- | -- | -- | 1 | -- | -- | -- | 1 |
| Total | 13 | 15 | 7 | 3 | 1 | 1 | -- | 40 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 1 DCIS using this cut-off had an original ER/PR of neg/neg.

Note: Original ER/PR results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Appendix A:

Section 7: ER/PR Test Results (1101), Original and Mount Sinai Results, by Site and Region

Breakdown of Original ER/PR status by Cut-Off, by site, all years

| Original results | | Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | Total |
|------------------|-------------|---|------|------|------|--------|--------|--------|--------|--------|-------|
| | | ER - | ER - | ER + | ER + | ER unc | ER unc | ER - | ER + | ER unc | |
| | | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unc | PR unc | PR unc | |
| St. John's | HSC | 129 | 16 | -- | -- | -- | -- | 1 | -- | 1 | 147 |
| | St. Clare's | 244 | 67 | -- | -- | -- | 1 | 2 | -- | -- | 314 |
| | Grace | 67 | 6 | -- | -- | 3 | -- | -- | -- | -- | 76 |
| | Unknown | 3 | -- | -- | -- | 1 | -- | -- | -- | -- | 4 |
| | Total | 443 | 89 | -- | -- | 4 | 1 | 3 | -- | 1 | 541 |
| Carbonear | | 57 | 13 | -- | -- | -- | -- | 1 | -- | -- | 71 |
| Clarenville | | 16 | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| Grand Falls | | 100 | 30 | -- | -- | 1 | -- | 2 | -- | 4 | 137 |
| Gander | | 56 | 18 | -- | -- | -- | -- | 4 | -- | -- | 78 |
| Western | | 158 | 52 | -- | -- | 2 | 3 | 1 | -- | 2 | 218 |
| Lab/Grenfell | | 35 | 4 | -- | -- | -- | -- | -- | -- | 1 | 40 |
| Total | | 865 | 206 | -- | -- | 7 | 4 | 11 | -- | 8 | 1101 |

| Original results | | Using a 30 Cut-Off for ER and PR | | | | | | | | | Total |
|------------------|-------------|----------------------------------|------|------|------|--------|--------|--------|--------|--------|-------|
| | | ER - | ER - | ER + | ER + | ER unc | ER unc | ER - | ER + | ER unc | |
| | | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unc | PR unc | PR unc | |
| St. John's | HSC | 133 | 12 | -- | -- | -- | -- | 1 | -- | 1 | 147 |
| | St. Clare's | 254 | 57 | -- | -- | -- | 1 | 2 | -- | -- | 314 |
| | Grace | 67 | 6 | -- | -- | 3 | -- | -- | -- | -- | 76 |
| | Unknown | 3 | -- | -- | -- | 1 | -- | -- | -- | -- | 4 |
| | Total | 457 | 75 | -- | -- | 4 | 1 | 3 | -- | 1 | 541 |
| Carbonear | | 61 | 9 | -- | -- | -- | -- | 1 | -- | -- | 71 |
| Clarenville | | 16 | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| Grand Falls | | 107 | 27 | -- | -- | -- | -- | 1 | -- | 2 | 137 |
| Gander | | 59 | 15 | -- | -- | -- | -- | 4 | -- | -- | 78 |
| Western | | 164 | 49 | -- | -- | 3 | -- | 1 | -- | 1 | 218 |
| Lab/Grenfell | | 35 | 4 | -- | -- | -- | -- | -- | -- | 1 | 40 |
| Total | | 899 | 179 | -- | -- | 7 | 1 | 10 | -- | 5 | 1101 |

| | | Using a 10 Cut-Off for ER and PR | | | | | | | | | |
|------------------|-------------|----------------------------------|------|------|------|--------|--------|--------|--------|--------|-------|
| Original results | | ER - | ER - | ER + | ER + | ER unc | ER unc | ER - | ER + | ER unc | Total |
| | | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unc | PR unc | PR unc | |
| St. John's | HSC | 128 | 15 | -- | 1 | -- | -- | 1 | -- | 2 | 147 |
| | St. Clare's | 228 | 73 | 3 | 7 | -- | 1 | 2 | -- | -- | 314 |
| | Grace | 59 | 10 | 3 | -- | 3 | -- | 1 | -- | -- | 76 |
| | Unknown | 2 | 1 | -- | -- | 1 | -- | -- | -- | -- | 4 |
| | Total | 417 | 99 | 6 | 8 | 4 | 1 | 4 | -- | 2 | 541 |
| Carbonear | | 47 | 19 | 2 | 3 | -- | -- | -- | -- | -- | 71 |
| Clarenville | | 14 | -- | -- | 2 | -- | -- | -- | -- | -- | 16 |
| Grand Falls | | 92 | 27 | 2 | 7 | 2 | -- | 2 | -- | 5 | 137 |
| Gander | | 46 | 16 | 3 | 6 | 1 | -- | 4 | 1 | 1 | 78 |
| Western | | 147 | 49 | 5 | 8 | 3 | 3 | 1 | -- | 2 | 218 |
| Lab/Grenfell | | 34 | 4 | -- | -- | -- | -- | 1 | -- | 1 | 40 |
| Total | | 797 | 214 | 18 | 34 | 10 | 4 | 12 | 1 | 11 | 1101 |

| | | Using a 1 Cut-Off for ER and PR | | | | | | | | | |
|------------------|-------------|---------------------------------|------|------|------|--------|--------|--------|--------|--------|-------|
| Original results | | ER - | ER - | ER + | ER + | ER unc | ER unc | ER - | ER + | ER unc | Total |
| | | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unc | PR unc | PR unc | |
| St. John's | HSC | 112 | 27 | 2 | 6 | -- | -- | -- | -- | -- | 147 |
| | St. Clare's | 188 | 68 | 12 | 46 | -- | -- | -- | -- | -- | 314 |
| | Grace | 42 | 13 | 12 | 9 | -- | -- | -- | -- | -- | 76 |
| | Unknown | 2 | 1 | 1 | -- | -- | -- | -- | -- | -- | 4 |
| | Total | 344 | 109 | 27 | 61 | -- | -- | -- | -- | -- | 541 |
| Carbonear | | 36 | 21 | 4 | 10 | -- | -- | -- | -- | -- | 71 |
| Clarenville | | 6 | 2 | -- | 8 | -- | -- | -- | -- | -- | 16 |
| Grand Falls | | 34 | 13 | 2 | 87 | -- | -- | 1 | -- | -- | 137 |
| Gander | | 32 | 22 | 4 | 20 | -- | -- | -- | -- | -- | 78 |
| Western | | 116 | 46 | 14 | 41 | -- | 1 | -- | -- | -- | 218 |
| Lab/Grenfell | | 30 | 4 | 1 | 5 | -- | -- | -- | -- | -- | 40 |
| Total | | 598 | 217 | 52 | 232 | -- | 1 | 1 | -- | -- | 1101 |

| | | Using a 30 and 10 Cut-Off for ER and PR | | | | | | | |
|--------------|-------------|---|------|------|------|------|----------|---------|-------|
| MS results | | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | | PR- | PR+ | PR- | PR+ | | | | |
| St. John's | HSC | 83 | 4 | 30 | 26 | 3 | 1 | -- | 147 |
| | St. Clare's | 169 | 8 | 55 | 65 | 10 | 5 | 2 | 314 |
| | Grace | 36 | 3 | 12 | 11 | 9 | 5 | -- | 76 |
| | Unknown | 3 | -- | 1 | -- | -- | -- | -- | 4 |
| | Total | 291 | 15 | 98 | 102 | 22 | 11 | 2 | 541 |
| Carbonear | | 34 | 2 | 21 | 11 | 2 | 1 | -- | 71 |
| Clarenville | | 10 | 1 | 1 | 4 | -- | -- | -- | 16 |
| Grand Falls | | 64 | 6 | 18 | 38 | 8 | 3 | -- | 137 |
| Gander | | 48 | 2 | 8 | 18 | 2 | -- | -- | 78 |
| Western | | 110 | 13 | 30 | 42 | 20 | 3 | -- | 218 |
| Lab/Grenfell | | 20 | -- | 10 | 8 | 1 | 1 | -- | 40 |
| Total | | 577 | 39 | 186 | 223 | 55 | 19 | 2 | 1101 |

| | | Using a 30 Cut-Off for ER and PR | | | | | | | |
|--------------|-------------|----------------------------------|------|------|------|------|----------|---------|-------|
| MS results | | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | | PR- | PR+ | PR- | PR+ | | | | |
| St. John's | HSC | 90 | 4 | 25 | 24 | 3 | 1 | -- | 147 |
| | St. Clare's | 182 | 12 | 52 | 51 | 10 | 5 | 2 | 314 |
| | Grace | 36 | 3 | 12 | 11 | 9 | 5 | -- | 76 |
| | Unknown | 3 | -- | 1 | -- | -- | -- | -- | 4 |
| | Total | 311 | 19 | 90 | 86 | 22 | 11 | 2 | 541 |
| Carbonear | | 36 | 4 | 23 | 5 | 2 | 1 | -- | 71 |
| Clarenville | | 10 | 1 | 1 | 4 | -- | -- | -- | 16 |
| Grand Falls | | 70 | 7 | 20 | 29 | 8 | 3 | -- | 137 |
| Gander | | 51 | 2 | 10 | 13 | 2 | -- | -- | 78 |
| Western | | 114 | 15 | 35 | 31 | 20 | 3 | -- | 218 |
| Lab/Grenfell | | 24 | -- | 7 | 7 | 1 | 1 | -- | 40 |
| Total | | 616 | 48 | 186 | 175 | 55 | 19 | 2 | 1101 |

| | | Using a 10 Cut-Off for ER and PR | | | | | | | |
|--------------|-------------|----------------------------------|------|------|------|------|----------|---------|-------|
| MS results | | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | | PR- | PR+ | PR- | PR+ | | | | |
| St. John's | HSC | 82 | 2 | 27 | 32 | 3 | 1 | -- | 147 |
| | St. Clare's | 159 | 6 | 52 | 80 | 10 | 5 | 2 | 314 |
| | Grace | 33 | 2 | 9 | 18 | 9 | 5 | -- | 76 |
| | Unknown | 3 | -- | 1 | -- | -- | -- | -- | 4 |
| | Total | 277 | 10 | 89 | 130 | 22 | 11 | 2 | 541 |
| Carbonear | | 30 | 1 | 18 | 19 | 2 | 1 | -- | 71 |
| Clarenville | | 7 | -- | 3 | 6 | -- | -- | -- | 16 |
| Grand Falls | | 55 | 6 | 18 | 47 | 8 | 3 | -- | 137 |
| Gander | | 43 | 3 | 6 | 24 | 2 | -- | -- | 78 |
| Western | | 99 | 4 | 29 | 63 | 20 | 3 | -- | 218 |
| Lab/Grenfell | | 18 | -- | 10 | 10 | 1 | 1 | -- | 40 |
| Total | | 529 | 24 | 173 | 299 | 55 | 19 | 2 | 1101 |

| | | Using a 1 Cut-Off for ER and PR | | | | | | | |
|--------------|-------------|---------------------------------|------|------|------|------|----------|---------|-------|
| MS results | | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | | PR- | PR+ | PR- | PR+ | | | | |
| St. John's | HSC | 78 | -- | 17 | 48 | 3 | 1 | -- | 147 |
| | St. Clare's | 140 | 3 | 49 | 105 | 10 | 5 | 2 | 314 |
| | Grace | 29 | -- | 5 | 28 | 9 | 5 | -- | 76 |
| | Unknown | 3 | -- | 1 | -- | -- | -- | -- | 4 |
| | Total | 250 | 3 | 72 | 181 | 22 | 11 | 2 | 541 |
| Carbonear | | 24 | 2 | 11 | 31 | 2 | 1 | -- | 71 |
| Clarenville | | 5 | -- | 3 | 8 | -- | -- | -- | 16 |
| Grand Falls | | 54 | -- | 7 | 65 | 8 | 3 | -- | 137 |
| Gander | | 38 | 3 | 7 | 28 | 2 | -- | -- | 78 |
| Western | | 88 | 1 | 20 | 86 | 20 | 3 | -- | 218 |
| Lab/Grenfell | | 16 | -- | 6 | 16 | 1 | 1 | -- | 40 |
| Total | | 475 | 9 | 126 | 415 | 55 | 19 | 2 | 1101 |

Breakdown of Original ER/PR status by Cut-Off.

Eastern

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | | |
|---|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 32 | 6 | -- | -- | -- | -- | -- | -- | -- | 38 |
| 1998 | 72 | 13 | -- | -- | -- | -- | 1 | -- | -- | 86 |
| 1999 | 73 | 11 | -- | -- | 2 | -- | -- | -- | -- | 86 |
| 2000 | 97 | 13 | -- | -- | 1 | -- | -- | -- | 1 | 112 |
| 2001 | 73 | 22 | -- | -- | 1 | 1 | 1 | -- | -- | 98 |
| 2002 | 79 | 23 | -- | -- | -- | -- | 1 | -- | -- | 103 |
| 2003 | 50 | 9 | -- | -- | -- | -- | 1 | -- | -- | 60 |
| 2004 | 26 | 3 | -- | -- | -- | -- | -- | -- | -- | 29 |
| 2005 | 14 | 2 | -- | -- | -- | -- | -- | -- | -- | 16 |
| Total | 516 | 102 | -- | -- | 4 | 1 | 4 | -- | 1 | 628 |

| Using a 30 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 32 | 6 | -- | -- | -- | -- | -- | -- | -- | 38 |
| 1998 | 72 | 13 | -- | -- | -- | -- | 1 | -- | -- | 86 |
| 1999 | 73 | 11 | -- | -- | 2 | -- | -- | -- | -- | 86 |
| 2000 | 97 | 13 | -- | -- | 1 | -- | -- | -- | 1 | 112 |
| 2001 | 81 | 14 | -- | -- | 1 | 1 | 1 | -- | -- | 98 |
| 2002 | 83 | 19 | -- | -- | -- | -- | 1 | -- | -- | 103 |
| 2003 | 53 | 6 | -- | -- | -- | -- | 1 | -- | -- | 60 |
| 2004 | 27 | 2 | -- | -- | -- | -- | -- | -- | -- | 29 |
| 2005 | 16 | -- | -- | -- | -- | -- | -- | -- | -- | 16 |
| Total | 534 | 84 | -- | -- | 4 | 1 | 4 | -- | 1 | 628 |

| Using a 10 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 30 | 8 | -- | -- | -- | -- | -- | -- | -- | 38 |
| 1998 | 59 | 19 | 1 | 6 | -- | -- | 1 | -- | -- | 86 |
| 1999 | 61 | 13 | 3 | 6 | 2 | -- | -- | -- | 1 | 86 |
| 2000 | 86 | 19 | 4 | 1 | 1 | -- | -- | -- | 1 | 112 |
| 2001 | 73 | 22 | -- | -- | 1 | 1 | 1 | -- | -- | 98 |
| 2002 | 79 | 23 | -- | -- | -- | -- | 1 | -- | -- | 103 |
| 2003 | 50 | 9 | -- | -- | -- | -- | 1 | -- | -- | 60 |
| 2004 | 26 | 3 | -- | -- | -- | -- | -- | -- | -- | 29 |
| 2005 | 14 | 2 | -- | -- | -- | -- | -- | -- | -- | 16 |
| Total | 478 | 118 | 8 | 13 | 4 | 1 | 4 | -- | 2 | 628 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | | | |
|---------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 25 | 7 | 2 | 4 | -- | -- | -- | -- | -- | 38 |
| 1998 | 43 | 24 | 4 | 15 | -- | -- | -- | -- | -- | 86 |
| 1999 | 44 | 13 | 7 | 22 | -- | -- | -- | -- | -- | 86 |
| 2000 | 72 | 18 | 8 | 14 | -- | -- | -- | -- | -- | 112 |
| 2001 | 59 | 25 | 4 | 10 | -- | -- | -- | -- | -- | 98 |
| 2002 | 66 | 27 | 3 | 7 | -- | -- | -- | -- | -- | 103 |
| 2003 | 41 | 11 | 3 | 5 | -- | -- | -- | -- | -- | 60 |
| 2004 | 23 | 5 | -- | 1 | -- | -- | -- | -- | -- | 29 |
| 2005 | 13 | 2 | -- | 1 | -- | -- | -- | -- | -- | 16 |
| Total | 386 | 132 | 31 | 79 | -- | -- | -- | -- | -- | 628 |

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | |
|---|------|------|------|------|------|----------|---------|-------|--|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total | |
| | PR- | PR+ | PR- | PR+ | | | | | |
| 1997 | 25 | -- | 4 | 5 | 2 | 2 | -- | 38 | |
| 1998 | 48 | 4 | 12 | 14 | 4 | 4 | -- | 86 | |
| 1999 | 38 | 7 | 20 | 17 | 4 | -- | -- | 86 | |
| 2000 | 67 | 3 | 27 | 13 | 2 | -- | -- | 112 | |
| 2001 | 39 | 2 | 22 | 28 | 4 | 2 | 1 | 98 | |
| 2002 | 44 | 1 | 20 | 32 | 3 | 2 | 1 | 103 | |
| 2003 | 34 | -- | 14 | 7 | 3 | 2 | -- | 60 | |
| 2004 | 26 | 1 | 1 | 1 | -- | -- | -- | 29 | |
| 2005 | 14 | -- | -- | -- | 2 | -- | -- | 16 | |
| Total | 335 | 18 | 120 | 117 | 24 | 12 | 2 | 628 | |

| Using a 30 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 25 | -- | 4 | 5 | 2 | 2 | -- | 38 |
| 1998 | 48 | 4 | 12 | 14 | 4 | 4 | -- | 86 |
| 1999 | 38 | 7 | 20 | 17 | 4 | -- | -- | 86 |
| 2000 | 67 | 3 | 27 | 13 | 2 | -- | -- | 112 |
| 2001 | 48 | 6 | 20 | 17 | 4 | 2 | 1 | 98 |
| 2002 | 47 | 3 | 23 | 24 | 3 | 2 | 1 | 103 |
| 2003 | 43 | -- | 8 | 4 | 3 | 2 | -- | 60 |
| 2004 | 27 | 1 | -- | 1 | -- | -- | -- | 29 |
| 2005 | 14 | -- | -- | -- | 2 | -- | -- | 16 |
| Total | 357 | 24 | 114 | 95 | 24 | 12 | 2 | 628 |

| Using a 10 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 24 | -- | 2 | 8 | 2 | 2 | -- | 38 |
| 1998 | 44 | 2 | 11 | 21 | 4 | 4 | -- | 86 |
| 1999 | 30 | 2 | 20 | 30 | 4 | -- | -- | 86 |
| 2000 | 59 | 3 | 20 | 28 | 2 | -- | -- | 112 |
| 2001 | 39 | 2 | 22 | 28 | 4 | 2 | 1 | 98 |
| 2002 | 44 | 1 | 20 | 32 | 3 | 2 | 1 | 103 |
| 2003 | 34 | -- | 14 | 7 | 3 | 2 | -- | 60 |
| 2004 | 26 | 1 | 1 | 1 | -- | -- | -- | 29 |
| 2005 | 14 | -- | -- | -- | 2 | -- | -- | 16 |
| Total | 314 | 11 | 110 | 155 | 24 | 12 | 2 | 628 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | |
|---------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 23 | -- | 1 | 10 | 2 | 2 | -- | 38 |
| 1998 | 40 | 1 | 9 | 38 | 4 | 4 | -- | 86 |
| 1999 | 26 | -- | 8 | 48 | 4 | -- | -- | 86 |
| 2000 | 52 | 1 | 17 | 40 | 2 | -- | -- | 112 |
| 2001 | 36 | 2 | 15 | 38 | 4 | 2 | 1 | 98 |
| 2002 | 36 | -- | 18 | 43 | 3 | 2 | 1 | 103 |
| 2003 | 29 | 1 | 14 | 11 | 3 | 2 | -- | 60 |
| 2004 | 25 | -- | 2 | 2 | -- | -- | -- | 29 |
| 2005 | 12 | -- | 2 | -- | 2 | -- | -- | 16 |
| Total | 279 | 5 | 86 | 220 | 24 | 12 | 2 | 628 |

Central

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | | |
|---|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 4 | 2 | -- | -- | -- | -- | 3 | -- | 2 | 11 |
| 1998 | 29 | 8 | -- | -- | -- | -- | 2 | -- | -- | 39 |
| 1999 | 24 | 8 | -- | -- | -- | -- | -- | -- | -- | 32 |
| 2000 | 37 | 5 | -- | -- | -- | -- | -- | -- | -- | 42 |
| 2001 | 14 | 6 | -- | -- | -- | -- | -- | -- | -- | 20 |
| 2002 | 21 | 6 | -- | -- | 1 | -- | -- | -- | -- | 28 |
| 2003 | 18 | 5 | -- | -- | -- | -- | 1 | -- | 1 | 25 |
| 2004 | 8 | 6 | -- | -- | -- | -- | -- | -- | 1 | 15 |
| 2005 | 1 | 2 | -- | -- | -- | -- | -- | -- | -- | 3 |
| Total | 156 | 48 | -- | -- | 1 | -- | 6 | -- | 4 | 215 |

| Using a 30 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 4 | 2 | -- | -- | -- | -- | 3 | -- | 2 | 11 |
| 1998 | 29 | 8 | -- | -- | -- | -- | 2 | -- | -- | 39 |
| 1999 | 24 | 8 | -- | -- | -- | -- | -- | -- | -- | 32 |
| 2000 | 37 | 5 | -- | -- | -- | -- | -- | -- | -- | 42 |
| 2001 | 14 | 6 | -- | -- | -- | -- | -- | -- | -- | 20 |
| 2002 | 25 | 3 | -- | -- | -- | -- | -- | -- | -- | 28 |
| 2003 | 22 | 3 | -- | -- | -- | -- | -- | -- | -- | 25 |
| 2004 | 10 | 5 | -- | -- | -- | -- | -- | -- | -- | 15 |
| 2005 | 1 | 3 | -- | -- | -- | -- | -- | -- | -- | 3 |
| Total | 166 | 42 | -- | -- | -- | -- | 5 | -- | 2 | 215 |

| Using a 10 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 4 | 2 | -- | -- | -- | -- | 3 | -- | 2 | 11 |
| 1998 | 22 | 9 | 1 | 3 | -- | -- | 2 | 1 | 1 | 39 |
| 1999 | 21 | 3 | 1 | 6 | 1 | -- | -- | -- | -- | 32 |
| 2000 | 29 | 4 | 3 | 4 | 1 | -- | -- | -- | 1 | 42 |
| 2001 | 14 | 6 | -- | -- | -- | -- | -- | -- | -- | 20 |
| 2002 | 21 | 6 | -- | -- | 1 | -- | -- | -- | -- | 28 |
| 2003 | 18 | 5 | -- | -- | -- | -- | 1 | -- | 1 | 25 |
| 2004 | 8 | 6 | -- | -- | -- | -- | -- | -- | 1 | 15 |
| 2005 | 1 | 2 | -- | -- | -- | -- | -- | -- | -- | 3 |
| Total | 138 | 43 | 5 | 13 | 3 | -- | 6 | 1 | 6 | 215 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | | | |
|---------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 3 | 6 | -- | 2 | -- | -- | -- | -- | -- | 11 |
| 1998 | 16 | 9 | 2 | 12 | -- | -- | -- | -- | -- | 39 |
| 1999 | 11 | 1 | 1 | 19 | -- | -- | -- | -- | -- | 32 |
| 2000 | 11 | 3 | 2 | 25 | -- | -- | 1 | -- | -- | 42 |
| 2001 | 7 | 4 | -- | 9 | -- | -- | -- | -- | -- | 20 |
| 2002 | 7 | 5 | 1 | 15 | -- | -- | -- | -- | -- | 28 |
| 2003 | 8 | 1 | -- | 16 | -- | -- | -- | -- | -- | 25 |
| 2004 | 3 | 5 | -- | 7 | -- | -- | -- | -- | -- | 15 |
| 2005 | -- | 1 | -- | 2 | -- | -- | -- | -- | -- | 3 |
| Total | 66 | 35 | 6 | 107 | -- | -- | 1 | -- | -- | 215 |

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | |
|---|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 8 | 1 | 1 | 1 | -- | -- | -- | 11 |
| 1998 | 18 | -- | 6 | 12 | 3 | -- | -- | 39 |
| 1999 | 19 | 2 | 5 | 5 | 1 | -- | -- | 32 |
| 2000 | 22 | 1 | 7 | 8 | 3 | 1 | -- | 42 |
| 2001 | 12 | 1 | 2 | 5 | -- | -- | -- | 20 |
| 2002 | 12 | 1 | 4 | 11 | -- | -- | -- | 28 |
| 2003 | 13 | 1 | -- | 8 | 3 | -- | -- | 25 |
| 2004 | 7 | 1 | 1 | 6 | -- | -- | -- | 15 |
| 2005 | 1 | -- | -- | -- | -- | 2 | -- | 3 |
| Total | 112 | 8 | 26 | 56 | 10 | 3 | -- | 215 |

| Using a 30 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 8 | 1 | 1 | 1 | -- | -- | -- | 11 |
| 1998 | 18 | -- | 6 | 12 | 3 | -- | -- | 39 |
| 1999 | 19 | 2 | 5 | 5 | 1 | -- | -- | 32 |
| 2000 | 22 | 1 | 7 | 8 | 3 | 1 | -- | 42 |
| 2001 | 12 | 1 | 3 | 4 | -- | -- | -- | 20 |
| 2002 | 17 | 2 | 2 | 7 | -- | -- | -- | 28 |
| 2003 | 16 | -- | 2 | 4 | 3 | -- | -- | 25 |
| 2004 | 8 | 2 | 4 | 1 | -- | -- | -- | 15 |
| 2005 | 1 | -- | -- | -- | -- | 2 | -- | 3 |
| Total | 121 | 9 | 30 | 42 | 10 | 3 | -- | 215 |

| Using a 10 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 6 | 1 | 1 | 3 | -- | -- | -- | 11 |
| 1998 | 15 | 2 | 5 | 14 | 3 | -- | -- | 39 |
| 1999 | 14 | 1 | 5 | 11 | 1 | -- | -- | 32 |
| 2000 | 18 | 1 | 6 | 13 | 3 | 1 | -- | 42 |
| 2001 | 12 | 1 | 2 | 5 | -- | -- | -- | 20 |
| 2002 | 12 | 1 | 4 | 11 | -- | -- | -- | 28 |
| 2003 | 13 | 1 | -- | 8 | 3 | -- | -- | 25 |
| 2004 | 7 | 1 | 1 | 6 | -- | -- | -- | 15 |
| 2005 | 1 | -- | -- | -- | -- | 2 | -- | 3 |
| Total | 98 | 9 | 24 | 71 | 10 | 3 | -- | 215 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | |
|---------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 6 | -- | -- | 5 | -- | -- | -- | 11 |
| 1998 | 15 | -- | 2 | 19 | 3 | -- | -- | 39 |
| 1999 | 13 | 1 | 4 | 13 | 1 | -- | -- | 32 |
| 2000 | 16 | 1 | 4 | 17 | 3 | 1 | -- | 42 |
| 2001 | 11 | 1 | 1 | 7 | -- | -- | -- | 20 |
| 2002 | 12 | -- | 1 | 15 | -- | -- | -- | 28 |
| 2003 | 11 | -- | 1 | 10 | 3 | -- | -- | 25 |
| 2004 | 7 | -- | 1 | 7 | -- | -- | -- | 15 |
| 2005 | 1 | -- | -- | -- | -- | 2 | -- | 3 |
| Total | 92 | 3 | 14 | 93 | 10 | 3 | -- | 215 |

Western

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | | |
|---|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 12 | 4 | -- | -- | -- | -- | -- | -- | -- | 16 |
| 1998 | 19 | 10 | -- | -- | 2 | -- | -- | -- | -- | 31 |
| 1999 | 27 | 12 | -- | -- | -- | -- | 1 | -- | -- | 40 |
| 2000 | 25 | 9 | -- | -- | -- | -- | -- | -- | 1 | 35 |
| 2001 | 21 | 6 | -- | -- | -- | 2 | -- | -- | -- | 29 |
| 2002 | 16 | 6 | -- | -- | -- | -- | -- | -- | -- | 22 |
| 2003 | 16 | 3 | -- | -- | -- | 1 | -- | -- | 1 | 21 |
| 2004 | 15 | 2 | -- | -- | -- | -- | -- | -- | -- | 17 |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | -- | -- | 7 |
| Total | 158 | 52 | -- | -- | 2 | 3 | 1 | -- | 2 | 218 |

| Using a 30 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 12 | 4 | -- | -- | -- | -- | -- | -- | -- | 16 |
| 1998 | 19 | 10 | -- | -- | 2 | -- | -- | -- | -- | 31 |
| 1999 | 27 | 12 | -- | -- | -- | -- | 1 | -- | -- | 40 |
| 2000 | 25 | 9 | -- | -- | -- | -- | -- | -- | 1 | 35 |
| 2001 | 23 | 6 | -- | -- | -- | -- | -- | -- | -- | 29 |
| 2002 | 18 | 4 | -- | -- | -- | -- | -- | -- | -- | 22 |
| 2003 | 18 | 2 | -- | -- | 1 | -- | -- | -- | -- | 21 |
| 2004 | 15 | 2 | -- | -- | -- | -- | -- | -- | -- | 17 |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | -- | -- | 7 |
| Total | 164 | 49 | -- | -- | 3 | -- | 1 | -- | 1 | 218 |

| Using a 10 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 12 | 4 | -- | -- | -- | -- | -- | -- | -- | 16 |
| 1998 | 15 | 11 | 1 | 2 | 2 | -- | -- | -- | -- | 31 |
| 1999 | 24 | 13 | 1 | 1 | -- | -- | 1 | -- | -- | 40 |
| 2000 | 21 | 4 | 3 | 5 | 1 | -- | -- | -- | 1 | 35 |
| 2001 | 21 | 6 | -- | -- | -- | 2 | -- | -- | -- | 29 |
| 2002 | 16 | 6 | -- | -- | -- | -- | -- | -- | -- | 22 |
| 2003 | 16 | 3 | -- | -- | -- | 1 | -- | -- | 1 | 21 |
| 2004 | 15 | 2 | -- | -- | -- | -- | -- | -- | -- | 17 |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | -- | -- | 7 |
| Total | 147 | 49 | 5 | 8 | 3 | 3 | 1 | -- | 2 | 218 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | | | |
|---------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 7 | 3 | 3 | 3 | -- | -- | -- | -- | -- | 16 |
| 1998 | 14 | 8 | 3 | 6 | -- | -- | -- | -- | -- | 31 |
| 1999 | 18 | 14 | 2 | 6 | -- | -- | -- | -- | -- | 40 |
| 2000 | 20 | 2 | 4 | 9 | -- | -- | -- | -- | -- | 35 |
| 2001 | 14 | 7 | 1 | 7 | -- | -- | -- | -- | -- | 29 |
| 2002 | 8 | 8 | -- | 6 | -- | -- | -- | -- | -- | 22 |
| 2003 | 13 | 2 | 1 | 4 | -- | 1 | -- | -- | -- | 21 |
| 2004 | 15 | 2 | -- | -- | -- | -- | -- | -- | -- | 17 |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | -- | -- | 7 |
| Total | 116 | 46 | 14 | 41 | -- | 1 | -- | -- | -- | 218 |

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | |
|---|------|------|------|------|------|----------|---------|-------|--|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total | |
| | PR- | PR+ | PR- | PR+ | | | | | |
| 1997 | 6 | 1 | 5 | 3 | 1 | -- | -- | 16 | |
| 1998 | 15 | 4 | 4 | 4 | 3 | 1 | -- | 31 | |
| 1999 | 17 | 4 | 5 | 12 | 2 | -- | -- | 40 | |
| 2000 | 16 | 2 | 6 | 4 | 6 | 1 | -- | 35 | |
| 2001 | 11 | -- | 6 | 8 | 4 | -- | -- | 29 | |
| 2002 | 9 | 2 | 2 | 7 | 2 | -- | -- | 22 | |
| 2003 | 15 | -- | 2 | 2 | 1 | 1 | -- | 21 | |
| 2004 | 14 | -- | -- | 2 | 1 | -- | -- | 17 | |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | 7 | |
| Total | 110 | 13 | 30 | 42 | 20 | 3 | -- | 218 | |

| Using a 30 Cut-Off for ER and PR | | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|--|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total | |
| | PR- | PR+ | PR- | PR+ | | | | | |
| 1997 | 6 | 1 | 5 | 3 | 1 | -- | -- | 16 | |
| 1998 | 15 | 4 | 4 | 4 | 3 | 1 | -- | 31 | |
| 1999 | 17 | 4 | 5 | 12 | 2 | -- | -- | 40 | |
| 2000 | 16 | 2 | 6 | 4 | 6 | 1 | -- | 35 | |
| 2001 | 12 | 2 | 7 | 4 | 4 | -- | -- | 29 | |
| 2002 | 11 | 2 | 4 | 3 | 2 | -- | -- | 22 | |
| 2003 | 16 | -- | 2 | 1 | 1 | 1 | -- | 21 | |
| 2004 | 14 | -- | 2 | -- | 1 | -- | -- | 17 | |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | 7 | |
| Total | 114 | 15 | 35 | 35 | 20 | 3 | -- | 218 | |

| Using a 10 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 6 | -- | 3 | 6 | 1 | -- | -- | 16 |
| 1998 | 11 | 1 | 3 | 12 | 3 | 1 | -- | 31 |
| 1999 | 13 | -- | 7 | 18 | 2 | -- | -- | 40 |
| 2000 | 13 | 1 | 6 | 8 | 6 | 1 | -- | 35 |
| 2001 | 11 | -- | 6 | 8 | 4 | -- | -- | 29 |
| 2002 | 9 | 2 | 2 | 7 | 2 | -- | -- | 22 |
| 2003 | 15 | -- | 2 | 2 | 1 | 1 | -- | 21 |
| 2004 | 14 | -- | -- | 2 | 1 | -- | -- | 17 |
| 2005 | 7 | -- | -- | -- | -- | -- | -- | 7 |
| Total | 99 | 4 | 29 | 63 | 20 | 3 | -- | 218 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | |
|---------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 6 | -- | 2 | 7 | 1 | -- | -- | 16 |
| 1998 | 10 | -- | 1 | 16 | 3 | 1 | -- | 31 |
| 1999 | 11 | -- | 7 | 20 | 2 | -- | -- | 40 |
| 2000 | 12 | -- | 3 | 13 | 6 | 1 | -- | 35 |
| 2001 | 8 | 1 | 4 | 12 | 4 | -- | -- | 29 |
| 2002 | 8 | -- | 1 | 11 | 2 | -- | -- | 22 |
| 2003 | 13 | -- | 1 | 5 | 1 | 1 | -- | 21 |
| 2004 | 14 | -- | -- | 2 | 1 | -- | -- | 17 |
| 2005 | 6 | -- | 1 | -- | -- | -- | -- | 7 |
| Total | 88 | 1 | 20 | 86 | 20 | 3 | -- | 218 |

Lab/Grenfell

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | | | |
|---|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | 4 |
| 1999 | 6 | 1 | -- | -- | -- | -- | -- | -- | -- | 7 |
| 2000 | 6 | 2 | -- | -- | -- | -- | -- | -- | -- | 8 |
| 2001 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | 5 |
| 2002 | 7 | 1 | -- | -- | -- | -- | -- | -- | -- | 8 |
| 2003 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | 1 |
| Total | 35 | 4 | -- | -- | -- | -- | -- | -- | 1 | 40 |

| Using a 30 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | 4 |
| 1999 | 6 | 1 | -- | -- | -- | -- | -- | -- | -- | 7 |
| 2000 | 6 | 2 | -- | -- | -- | -- | -- | -- | -- | 8 |
| 2001 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | 5 |
| 2002 | 7 | 1 | -- | -- | -- | -- | -- | -- | -- | 8 |
| 2003 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | 1 |
| Total | 35 | 4 | -- | -- | -- | -- | -- | -- | 1 | 40 |

| Using a 10 Cut-Off for ER and PR | | | | | | | | | | |
|----------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | 4 |
| 1999 | 6 | 1 | -- | -- | -- | -- | -- | -- | -- | 7 |
| 2000 | 5 | 2 | -- | -- | -- | -- | 1 | -- | -- | 8 |
| 2001 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | 5 |
| 2002 | 7 | 1 | -- | -- | -- | -- | -- | -- | -- | 8 |
| 2003 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | -- | -- | -- | -- | -- | -- | -- | -- | 1 | 1 |
| Total | 34 | 4 | -- | -- | -- | -- | 1 | -- | 1 | 40 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | | | |
|---------------------------------|------|------|------|------|------------|------------|------------|------------|------------|-------|
| Original results | ER - | ER - | ER + | ER + | ER unclear | ER unclear | ER - | ER + | ER unclear | Total |
| | PR- | PR+ | PR- | PR+ | PR- | PR+ | PR unclear | PR unclear | PR unclear | |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | 4 |
| 1999 | 6 | 1 | -- | -- | -- | -- | -- | -- | -- | 7 |
| 2000 | 5 | 2 | -- | 1 | -- | -- | -- | -- | -- | 8 |
| 2001 | 3 | -- | 1 | 1 | -- | -- | -- | -- | -- | 5 |
| 2002 | 7 | 1 | -- | -- | -- | -- | -- | -- | -- | 8 |
| 2003 | 2 | -- | -- | 1 | -- | -- | -- | -- | -- | 3 |
| 2004 | 2 | -- | -- | 1 | -- | -- | -- | -- | -- | 3 |
| 2005 | -- | -- | -- | 1 | -- | -- | -- | -- | -- | 1 |
| Total | 30 | 4 | 1 | 5 | -- | -- | -- | -- | -- | 40 |

| Using a 30 and 10 Cut-Off for ER and PR | | | | | | | | |
|---|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 2 | -- | 2 | -- | -- | -- | -- | 4 |
| 1999 | 3 | -- | 2 | 1 | 1 | -- | -- | 7 |
| 2000 | 3 | -- | 2 | 3 | -- | -- | -- | 8 |
| 2001 | 2 | -- | -- | 2 | -- | 1 | -- | 5 |
| 2002 | 4 | -- | 2 | 2 | -- | -- | -- | 8 |
| 2003 | 1 | -- | 2 | -- | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| Total | 20 | -- | 10 | 8 | 1 | 1 | -- | 40 |

| Using a 30 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 2 | -- | 2 | -- | -- | -- | -- | 4 |
| 1999 | 3 | -- | 2 | 1 | 1 | -- | -- | 7 |
| 2000 | 3 | -- | 2 | 3 | -- | -- | -- | 8 |
| 2001 | 3 | -- | -- | 1 | -- | 1 | -- | 5 |
| 2002 | 5 | -- | 1 | 2 | -- | -- | -- | 8 |
| 2003 | 3 | -- | -- | -- | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| Total | 24 | -- | 7 | 7 | 1 | 1 | -- | 40 |

| Using a 10 Cut-Off for ER and PR | | | | | | | | |
|----------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 2 | -- | 2 | -- | -- | -- | -- | 4 |
| 1999 | 3 | -- | 2 | 1 | 1 | -- | -- | 7 |
| 2000 | 1 | -- | 2 | 5 | -- | -- | -- | 8 |
| 2001 | 2 | -- | -- | 2 | -- | 1 | -- | 5 |
| 2002 | 4 | -- | 2 | 2 | -- | -- | -- | 8 |
| 2003 | 1 | -- | 2 | -- | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| Total | 18 | -- | 10 | 10 | 1 | 1 | -- | 40 |

| Using a 1 Cut-Off for ER and PR | | | | | | | | |
|---------------------------------|------|------|------|------|------|----------|---------|-------|
| MS results | ER - | ER - | ER + | ER + | DCIS | NT/Other | Pending | Total |
| | PR- | PR+ | PR- | PR+ | | | | |
| 1997 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| 1998 | 1 | -- | 1 | 2 | -- | -- | -- | 4 |
| 1999 | 3 | -- | 1 | 2 | 1 | -- | -- | 7 |
| 2000 | 1 | -- | -- | 7 | -- | -- | -- | 8 |
| 2001 | 2 | -- | -- | 2 | -- | 1 | -- | 5 |
| 2002 | 3 | -- | 3 | 2 | -- | -- | -- | 8 |
| 2003 | 1 | -- | 1 | 1 | -- | -- | -- | 3 |
| 2004 | 3 | -- | -- | -- | -- | -- | -- | 3 |
| 2005 | 1 | -- | -- | -- | -- | -- | -- | 1 |
| Total | 16 | -- | 6 | 16 | 1 | 1 | -- | 40 |

Appendix B:

Section 1: ER Test Results (1101), Type of Change

The tables below reflect analyses looking at ER only.

| Using a 30 and 10 Cut-Off for <i>ER</i> (Total Tests) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 41 | 18 | -- | -- | 3 | 2 | 2 | 66 |
| 1998 | 89 | 54 | -- | -- | 10 | 5 | 2 | 160 |
| 1999 | 90 | 65 | -- | -- | 8 | -- | 2 | 165 |
| 2000 | 114 | 67 | -- | -- | 11 | 2 | 3 | 197 |
| 2001 | 67 | 69 | -- | -- | 8 | 4 | 4 | 152 |
| 2002 | 73 | 79 | -- | -- | 5 | 3 | 1 | 161 |
| 2003 | 63 | 33 | -- | -- | 7 | 3 | 3 | 109 |
| 2004 | 52 | 10 | -- | -- | 1 | -- | 1 | 64 |
| 2005 | 22 | -- | -- | -- | 2 | 2 | 1 | 27 |
| Total | 611 | 395 | -- | -- | 55 | 21 | 19 | 1101 |

¹ Confirmation/Conversion status based on ≤ 30 cut-off from 1997-2000 and ≤ 10 from 2001-2005 for ER.

² Other may include NT, EPAP, or pending MS results.

³ All 55 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤ 30 for 1997-2000 and ≤ 10 from 2001-2005.

| Using a 30 Cut-Off for <i>ER</i> (Total Tests) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 41 | 18 | -- | -- | 3 | 2 | 2 | 66 |
| 1998 | 89 | 54 | -- | -- | 10 | 5 | 2 | 160 |
| 1999 | 90 | 65 | -- | -- | 8 | -- | 2 | 165 |
| 2000 | 114 | 67 | -- | -- | 11 | 2 | 3 | 197 |
| 2001 | 84 | 54 | -- | -- | 8 | 4 | 2 | 152 |
| 2002 | 87 | 66 | -- | -- | 5 | 3 | -- | 161 |
| 2003 | 77 | 21 | -- | -- | 7 | 3 | 1 | 109 |
| 2004 | 55 | 8 | -- | -- | 1 | -- | -- | 64 |
| 2005 | 22 | -- | -- | -- | 2 | 2 | 1 | 27 |
| Total | 659 | 353 | -- | -- | 55 | 21 | 13 | 1101 |

¹ Confirmation/Conversion status based on ≤ 30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ All 55 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤ 30 for 1997-2005.

| Using a 10 Cut-Off for ER (Total Tests) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 37 | 22 | -- | -- | 3 | 2 | 2 | 66 |
| 1998 | 72 | 56 | 12 | 3 | 10 | 5 | 2 | 160 |
| 1999 | 59 | 77 | 13 | 4 | 8 | -- | 4 | 165 |
| 2000 | 94 | 68 | 15 | 2 | 11 | 2 | 5 | 197 |
| 2001 | 67 | 69 | -- | -- | 8 | 4 | 4 | 152 |
| 2002 | 73 | 79 | -- | -- | 5 | 3 | 1 | 161 |
| 2003 | 63 | 33 | -- | -- | 7 | 3 | 3 | 109 |
| 2004 | 52 | 10 | -- | -- | 1 | -- | 1 | 64 |
| 2005 | 22 | -- | -- | -- | 2 | 2 | 1 | 27 |
| Total | 539 | 414 | 40 | 9 | 55 | 21 | 23 | 1101 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 50 DCIS using this cut-off had an original negative ER, 3 had an original positive ER, and 2 had an unclear original ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 1 Cut-Off for ER (Total Tests) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 36 | 13 | 12 | -- | 3 | 2 | -- | 66 |
| 1998 | 58 | 49 | 29 | 9 | 10 | 5 | -- | 160 |
| 1999 | 40 | 61 | 42 | 14 | 8 | -- | -- | 165 |
| 2000 | 70 | 57 | 44 | 13 | 11 | 2 | -- | 197 |
| 2001 | 54 | 55 | 24 | 7 | 8 | 4 | -- | 152 |
| 2002 | 50 | 71 | 23 | 9 | 5 | 3 | -- | 161 |
| 2003 | 45 | 26 | 17 | 10 | 7 | 3 | 1 | 109 |
| 2004 | 43 | 10 | 4 | 6 | 1 | -- | -- | 64 |
| 2005 | 18 | 2 | 1 | 2 | 2 | 2 | -- | 27 |
| Total | 414 | 344 | 196 | 70 | 55 | 21 | 1 | 1101 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 43 DCIS using this cut-off had an original negative ER, and 12 had an original positive ER.

Note: Original ER results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Appendix B:

Section 2: ER Patient Results (1013), Type of Change, Deceased and Alive

Please note:

- 1) The tables below involve analyses of unique patients rather than total tests. In order to analyze various scenarios using unique patients that had more than one retest the following criteria was used to determine status:
 - a. If all tests were negative, the patient was confirmed negative;**
 - b. If all tests were positive, the patient was confirmed positive;**
 - c. If at least one retest showed a change, i.e., an original negative with a retest that was positive, or an original positive with a retest that was negative, than that patient was considered to be converted.****
- 2) In cases where more than one block was tested and retested, a patient may have had more than one result reported by MS while the health authority reported only one result for those blocks. Therefore, the original result reported by the region was assigned to multiple blocks.**
- 3) Although the tables state whether a patient converted, it does not necessarily reflect inappropriate treatment.**

The tables below reflect analyses looking at ER only.

| Using a 30 and 10 Cut-Off for ER (Total A-Deceased) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 17 | 7 | -- | -- | -- | 1 | -- | 25 |
| 1998 | 28 | 15 | -- | -- | 1 | 1 | -- | 45 |
| 1999 | 33 | 20 | -- | -- | -- | -- | 1 | 54 |
| 2000 | 33 | 25 | 1 | -- | 2 | -- | -- | 61 |
| 2001 | 19 | 17 | 1 | -- | 1 | 2 | -- | 40 |
| 2002 | 20 | 15 | 1 | -- | 2 | 1 | -- | 39 |
| 2003 | 23 | 6 | 1 | -- | -- | 1 | 1 | 32 |
| 2004 | 18 | 2 | -- | -- | -- | -- | 1 | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 195 | 107 | 4 | -- | 6 | 6 | 4 | 322 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER.

² Other may include NT, EPAP, or pending MS results.

³ All 6 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 and 10 Cut-Off for ER (Total A-Alive) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 21 | 10 | -- | -- | 3 | -- | 2 | 36 |
| 1998 | 47 | 36 | 1 | -- | 9 | 2 | 1 | 96 |
| 1999 | 47 | 40 | -- | -- | 7 | -- | 1 | 95 |
| 2000 | 70 | 40 | 1 | -- | 6 | 2 | 3 | 122 |
| 2001 | 45 | 48 | 2 | 1 | 5 | 1 | 3 | 105 |
| 2002 | 44 | 61 | 2 | -- | 3 | 1 | 1 | 112 |
| 2003 | 34 | 24 | 3 | 1 | 6 | 1 | 2 | 71 |
| 2004 | 26 | 7 | -- | 1 | -- | -- | -- | 34 |
| 2005 | 16 | -- | 1 | -- | 1 | 2 | -- | 20 |
| Total | 350 | 266 | 10 | 3 | 40 | 9 | 13 | 691 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER.

² Other may include NT, EPAP, or pending MS results.

³ All 40 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 Cut-Off for ER (Total A-Deceased) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 17 | 7 | -- | -- | -- | 1 | -- | 25 |
| 1998 | 28 | 15 | -- | -- | 1 | 1 | -- | 45 |
| 1999 | 33 | 20 | -- | -- | -- | -- | 1 | 54 |
| 2000 | 33 | 25 | 1 | -- | 2 | -- | -- | 61 |
| 2001 | 22 | 14 | 1 | -- | 1 | 2 | -- | 40 |
| 2002 | 22 | 13 | 1 | -- | 2 | 1 | -- | 39 |
| 2003 | 28 | 2 | 1 | -- | -- | 1 | -- | 32 |
| 2004 | 19 | 2 | -- | -- | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 206 | 98 | 4 | -- | 6 | 6 | 2 | 322 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ All 6 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 30 Cut-Off for ER (Total A-Alive) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 21 | 10 | -- | -- | 3 | -- | 2 | 36 |
| 1998 | 47 | 36 | 1 | -- | 9 | 2 | 1 | 96 |
| 1999 | 47 | 40 | -- | -- | 7 | -- | 1 | 95 |
| 2000 | 70 | 40 | 1 | -- | 6 | 2 | 3 | 122 |
| 2001 | 60 | 37 | -- | -- | 5 | 1 | 2 | 105 |
| 2002 | 56 | 52 | -- | -- | 3 | 1 | -- | 112 |
| 2003 | 43 | 19 | 1 | -- | 6 | 1 | 1 | 71 |
| 2004 | 28 | 5 | -- | 1 | -- | -- | -- | 34 |
| 2005 | 16 | -- | 1 | -- | 1 | 2 | -- | 20 |
| Total | 388 | 239 | 4 | 1 | 40 | 9 | 10 | 691 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ All 40 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 10 Cut-Off for <i>ER</i> (Total A-Deceased) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 14 | 10 | -- | -- | -- | 1 | -- | 25 |
| 1998 | 24 | 14 | 4 | 1 | 1 | 1 | -- | 45 |
| 1999 | 23 | 24 | 3 | 2 | -- | -- | 2 | 54 |
| 2000 | 29 | 24 | 6 | -- | 2 | -- | -- | 61 |
| 2001 | 19 | 17 | 1 | -- | 1 | 2 | -- | 40 |
| 2002 | 20 | 15 | 1 | -- | 2 | 1 | -- | 39 |
| 2003 | 23 | 6 | 1 | -- | -- | 1 | 1 | 32 |
| 2004 | 18 | 2 | -- | -- | -- | -- | 1 | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 174 | 112 | 16 | 3 | 6 | 6 | 5 | 322 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 5 DCIS using this cut-off had an original negative ER, while 1 original result had an unclear original ER (<20).
 Note: Original ER results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 10 Cut-Off for <i>ER</i> (Total A-Alive) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 21 | 10 | -- | -- | 3 | -- | 2 | 36 |
| 1998 | 38 | 37 | 7 | 2 | 9 | 2 | 2 | 96 |
| 1999 | 29 | 46 | 9 | 2 | 7 | -- | 2 | 95 |
| 2000 | 56 | 42 | 10 | 1 | 6 | 2 | 4 | 122 |
| 2001 | 45 | 48 | 2 | 1 | 5 | 1 | 3 | 105 |
| 2002 | 44 | 61 | 2 | -- | 3 | 1 | 1 | 112 |
| 2003 | 34 | 24 | 3 | 1 | 6 | 1 | 2 | 71 |
| 2004 | 26 | 7 | -- | 1 | -- | -- | -- | 34 |
| 2005 | 16 | -- | 1 | -- | 1 | 2 | -- | 20 |
| Total | 309 | 275 | 34 | 8 | 40 | 9 | 16 | 691 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 37 DCIS using this cut-off had an original negative ER, 1 had an original positive ER, and 1 had an unclear original ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 1 Cut-Off for ER (Total A-Deceased) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 13 | 6 | 5 | -- | -- | 1 | -- | 25 |
| 1998 | 19 | 12 | 8 | 4 | 1 | 1 | -- | 45 |
| 1999 | 17 | 17 | 14 | 6 | -- | -- | -- | 54 |
| 2000 | 25 | 18 | 13 | 3 | 2 | -- | -- | 61 |
| 2001 | 15 | 15 | 5 | 2 | 1 | 2 | -- | 40 |
| 2002 | 15 | 14 | 4 | 3 | 2 | 1 | -- | 39 |
| 2003 | 17 | 5 | 6 | 3 | -- | 1 | -- | 32 |
| 2004 | 13 | 4 | 2 | 2 | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | 1 | -- | -- | -- | 5 |
| Total | 138 | 91 | 57 | 24 | 6 | 6 | -- | 322 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 3 DCIS using this cut-off had an original negative ER, and 3 had an original positive ER.

Note: Original ER results reported as “neg” or “N” were considered to be <1 for 1997-2005.

| Using a 1 Cut-Off for ER (Total A-Alive) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 21 | 6 | 6 | -- | 3 | -- | -- | 36 |
| 1998 | 30 | 32 | 19 | 4 | 9 | 2 | -- | 96 |
| 1999 | 19 | 38 | 24 | 7 | 7 | -- | -- | 95 |
| 2000 | 39 | 36 | 30 | 9 | 6 | 2 | -- | 122 |
| 2001 | 37 | 36 | 21 | 5 | 5 | 1 | -- | 105 |
| 2002 | 29 | 54 | 20 | 5 | 3 | 1 | -- | 112 |
| 2003 | 27 | 18 | 14 | 4 | 6 | 1 | 1 | 71 |
| 2004 | 22 | 5 | 3 | 4 | -- | -- | -- | 34 |
| 2005 | 13 | 2 | 2 | -- | 1 | 2 | -- | 20 |
| Total | 237 | 227 | 139 | 38 | 40 | 9 | 1 | 691 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 33 DCIS using this cut-off had an original negative ER and 7 had an original positive ER.

Note: Original ER results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Appendix B:

Section 3: ER Test Results (1120), Type of Change, Deceased and Alive

Please note:

- 1) In cases where more than one block was tested and retested, a patient may have had more than one result reported by MS while the health authority reported only one result for those blocks. Therefore, the original result reported by the region was assigned to multiple blocks.**
- 2) Although the tables state whether a patient converted, it does not necessarily reflect inappropriate treatment.**

The tables below reflect analyses looking at ER only.

| Using a 30 and 10 Cut-Off for <i>ER</i> (Total Tests-Deceased) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 19 | 8 | -- | -- | -- | 1 | -- | 28 |
| 1998 | 35 | 15 | -- | -- | 1 | 3 | -- | 54 |
| 1999 | 35 | 22 | -- | -- | -- | -- | 1 | 58 |
| 2000 | 37 | 26 | 1 | -- | 2 | -- | -- | 66 |
| 2001 | 19 | 18 | 1 | -- | 2 | 3 | -- | 43 |
| 2002 | 25 | 15 | 1 | -- | 2 | 2 | -- | 45 |
| 2003 | 26 | 8 | 1 | -- | -- | 1 | 1 | 37 |
| 2004 | 18 | 2 | -- | -- | -- | -- | 1 | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 218 | 114 | 4 | -- | 7 | 10 | 4 | 357 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER.

² Other may include NT, EPAP, or pending MS results.

³ All 7 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 and 10 Cut-Off for <i>ER</i> (Total Tests-Alive) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 22 | 10 | -- | -- | 3 | 1 | 2 | 38 |
| 1998 | 54 | 39 | 1 | -- | 9 | 2 | 2 | 107 |
| 1999 | 55 | 43 | -- | -- | 8 | -- | 1 | 107 |
| 2000 | 77 | 41 | 1 | -- | 9 | 2 | 3 | 133 |
| 2001 | 48 | 51 | 2 | 1 | 6 | 1 | 4 | 113 |
| 2002 | 48 | 64 | 2 | -- | 3 | 2 | 1 | 120 |
| 2003 | 38 | 25 | 3 | 1 | 7 | 2 | 2 | 78 |
| 2004 | 34 | 8 | -- | 1 | 1 | -- | -- | 44 |
| 2005 | 18 | -- | 1 | -- | 2 | 2 | -- | 23 |
| Total | 394 | 281 | 10 | 3 | 48 | 12 | 15 | 763 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER.

² Other may include NT, EPAP, or pending MS results.

³ All 48 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 Cut-Off for ER (Total Tests-Deceased) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 19 | 8 | -- | -- | -- | 1 | -- | 28 |
| 1998 | 35 | 15 | -- | -- | 1 | 3 | -- | 54 |
| 1999 | 35 | 22 | -- | -- | -- | -- | 1 | 58 |
| 2000 | 37 | 26 | 1 | -- | 2 | -- | -- | 66 |
| 2001 | 22 | 15 | 1 | -- | 2 | 3 | -- | 43 |
| 2002 | 27 | 13 | 1 | -- | 2 | 2 | -- | 45 |
| 2003 | 31 | 4 | 1 | -- | -- | 1 | -- | 37 |
| 2004 | 19 | 2 | -- | -- | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 229 | 105 | 4 | -- | 7 | 10 | 2 | 357 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ All 7 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 30 Cut-Off for ER (Total Tests-Alive) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 22 | 10 | -- | -- | 3 | 1 | 2 | 38 |
| 1998 | 54 | 39 | 1 | -- | 9 | 2 | 2 | 107 |
| 1999 | 55 | 43 | -- | -- | 8 | -- | 1 | 107 |
| 2000 | 77 | 41 | 1 | -- | 9 | 2 | 3 | 133 |
| 2001 | 63 | 41 | -- | -- | 6 | 1 | 2 | 113 |
| 2002 | 60 | 55 | -- | -- | 3 | 2 | -- | 120 |
| 2003 | 48 | 19 | 1 | -- | 7 | 2 | 1 | 78 |
| 2004 | 36 | 6 | -- | 1 | 1 | -- | -- | 44 |
| 2005 | 18 | -- | 1 | -- | 2 | 2 | -- | 23 |
| Total | 433 | 254 | 4 | 1 | 48 | 12 | 11 | 763 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ All 48 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

| Using a 10 Cut-Off for ER (Total Tests-Deceased) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 15 | 12 | -- | -- | -- | 1 | -- | 28 |
| 1998 | 29 | 15 | 5 | 1 | 1 | 3 | -- | 54 |
| 1999 | 25 | 26 | 3 | 2 | -- | -- | 2 | 58 |
| 2000 | 33 | 25 | 6 | -- | 2 | -- | -- | 66 |
| 2001 | 19 | 18 | 1 | -- | 2 | 3 | -- | 43 |
| 2002 | 25 | 15 | 1 | -- | 2 | 2 | -- | 45 |
| 2003 | 26 | 8 | 1 | -- | -- | 1 | 1 | 37 |
| 2004 | 18 | 2 | -- | -- | -- | -- | 1 | 21 |
| 2005 | 4 | -- | -- | -- | -- | -- | 1 | 5 |
| Total | 194 | 121 | 17 | 3 | 7 | 10 | 5 | 357 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 6 DCIS using this cut-off had an original negative ER, while 1 original result had an unclear original ER (<20).

Note: Original ER results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 10 Cut-Off for ER (Total Tests-Alive) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 22 | 10 | -- | -- | 3 | 1 | 2 | 38 |
| 1998 | 43 | 41 | 8 | 2 | 9 | 2 | 2 | 107 |
| 1999 | 34 | 51 | 10 | 2 | 8 | -- | 2 | 107 |
| 2000 | 61 | 43 | 11 | 2 | 9 | 2 | 5 | 133 |
| 2001 | 48 | 51 | 2 | 1 | 6 | 1 | 4 | 113 |
| 2002 | 48 | 64 | 2 | -- | 3 | 2 | 1 | 120 |
| 2003 | 38 | 25 | 3 | 1 | 7 | 2 | 2 | 78 |
| 2004 | 34 | 8 | -- | 1 | 1 | -- | -- | 44 |
| 2005 | 18 | -- | 1 | -- | 2 | 2 | -- | 23 |
| Total | 346 | 293 | 37 | 9 | 48 | 12 | 18 | 763 |

¹ Confirmation/Conversion status based on ≤10 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 44 DCIS using this cut-off had an original negative ER, 3 had an original positive ER, and 1 had an unclear original ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤10 for 1997-2005.

| Using a 1 Cut-Off for ER (Total Tests-Deceased) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 14 | 7 | 6 | -- | -- | 1 | -- | 28 |
| 1998 | 24 | 13 | 9 | 4 | 1 | 3 | -- | 54 |
| 1999 | 18 | 18 | 15 | 7 | -- | -- | -- | 58 |
| 2000 | 27 | 20 | 13 | 4 | 2 | -- | -- | 66 |
| 2001 | 15 | 16 | 5 | 2 | 2 | 3 | -- | 43 |
| 2002 | 19 | 14 | 4 | 4 | 2 | 2 | -- | 45 |
| 2003 | 17 | 6 | 8 | 5 | -- | 1 | -- | 37 |
| 2004 | 13 | 4 | 2 | 2 | -- | -- | -- | 21 |
| 2005 | 4 | -- | -- | 1 | -- | -- | -- | 5 |
| Total | 151 | 98 | 62 | 29 | 7 | 10 | -- | 357 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 4 DCIS using this cut-off had an original negative ER, and 3 had an original positive ER.

Note: Original ER results reported as “neg” or “N” were considered to be <1 for 1997-2005.

| Using a 1 Cut-Off for ER (Total Tests-Alive) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 22 | 6 | 6 | -- | 3 | 1 | -- | 38 |
| 1998 | 34 | 36 | 21 | 5 | 9 | 2 | -- | 107 |
| 1999 | 22 | 43 | 27 | 7 | 8 | -- | -- | 107 |
| 2000 | 43 | 37 | 33 | 9 | 9 | 2 | -- | 133 |
| 2001 | 39 | 38 | 23 | 5 | 6 | 1 | -- | 113 |
| 2002 | 31 | 57 | 22 | 5 | 3 | 2 | -- | 120 |
| 2003 | 29 | 20 | 14 | 5 | 7 | 2 | 1 | 78 |
| 2004 | 30 | 6 | 3 | 4 | 1 | -- | -- | 44 |
| 2005 | 14 | 2 | 2 | 1 | 2 | 2 | -- | 23 |
| Total | 264 | 246 | 151 | 41 | 48 | 12 | 1 | 763 |

¹ Confirmation/Conversion status based on <1 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ 39 DCIS using this cut-off had an original negative ER and 9 had an original positive ER.

Note: Original ER results reported as “neg” or “N” were considered to be <1 for 1997-2005.

Appendix B:

Section 4: ER Test Results (1101), Type of Change, by Region

Eastern

| Using a 30 and 10 Cut-Off for ER (Total Tests-Eastern) | | | | | | | | |
|---|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 25 | 9 | -- | -- | 2 | 2 | -- | 38 |
| 1998 | 52 | 26 | -- | -- | 4 | 4 | -- | 86 |
| 1999 | 45 | 35 | -- | -- | 4 | -- | 2 | 86 |
| 2000 | 70 | 38 | -- | -- | 2 | -- | 2 | 112 |
| 2001 | 41 | 48 | -- | -- | 4 | 3 | 2 | 98 |
| 2002 | 45 | 52 | -- | -- | 3 | 3 | -- | 103 |
| 2003 | 34 | 21 | -- | -- | 3 | 2 | -- | 60 |
| 2004 | 27 | 2 | -- | -- | -- | -- | -- | 29 |
| 2005 | 14 | -- | -- | -- | 2 | -- | -- | 16 |
| Total | 353 | 231 | -- | -- | 24 | 14 | 6 | 628 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2000 and ≤10 from 2001-2005 for ER.

² Other may include NT, EPAP, or pending MS results.

³ All 24 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2000 and ≤10 from 2001-2005.

| Using a 30 Cut-Off for ER (Total Tests-Eastern) | | | | | | | | |
|--|-----------------------|------------------------------|-----------------------|------------------------------|-------------------|--------------------|---------|-------|
| | Conf Neg ¹ | Conv Neg to Pos ¹ | Conf Pos ¹ | Conv Pos to Neg ¹ | DCIS ³ | Other ² | Unclear | Total |
| 1997 | 25 | 9 | -- | -- | 2 | 2 | -- | 38 |
| 1998 | 52 | 26 | -- | -- | 4 | 4 | -- | 86 |
| 1999 | 45 | 35 | -- | -- | 4 | -- | 2 | 86 |
| 2000 | 70 | 38 | -- | -- | 2 | -- | 2 | 112 |
| 2001 | 54 | 35 | -- | -- | 4 | 3 | 2 | 98 |
| 2002 | 50 | 47 | -- | -- | 3 | 3 | -- | 103 |
| 2003 | 43 | 12 | -- | -- | 3 | 2 | -- | 60 |
| 2004 | 28 | 1 | -- | -- | -- | -- | -- | 29 |
| 2005 | 14 | -- | -- | -- | 2 | -- | -- | 16 |
| Total | 381 | 203 | -- | -- | 24 | 14 | 6 | 628 |

¹ Confirmation/Conversion status based on ≤30 cut-off from 1997-2005.

² Other may include NT, EPAP, or pending MS results.

³ All 24 DCIS using this cut-off had an original negative ER.

Note: Original ER results reported as “neg” or “N” were considered to be ≤30 for 1997-2005.

