

# 2017 Assessment of Evaluation and Treatment Planning Breast Cancer

**STUDY PURPOSE:** To assess if Breast cases diagnosed and treated at Santa Rosa Memorial Hospital have a diagnostic biopsy prior to surgical resection based on NCCN guidelines.

**Member of Cancer Committee to perform study:** Sara Keck, MD, MD/Fred Wacker, Ph.D., CTR

## **Background:**

The study conducted by Cancer Committee this year analyzed the diagnostic workup of breast patients compared to the NCCN (National Comprehensive Cancer Network) Version 1.2017.

## **Study Criteria: Site Specific Sample based on identified need or concern:**

|                                |  |
|--------------------------------|--|
| Site Specific Sample:          | Breast Cancer                              |
| Accession Year:                | 2016, Class of Case 00-22 (analytical)     |
| Focus on AJCC Clinical Stages: | Stage Groups 0-3, Stage 4 Distant excluded |

Total cases: 128

Data reviewed for each case included are patients age, diagnostic workup, clinical stage, pathological stage and first course of treatment documented in the Cancer Registry (CR) abstract, and source pathological report, patient medical record.

## **Pathological Report documentation based on NCCN Guideline:**

Clinical AJCC Stage 0-3 cases to receive a diagnostic breast biopsy prior to surgical intervention, BINV-1.

## **Santa Rosa Memorial Hospital Breast Cases: Study Assessment Summary:**

### **Summary of Breast Cases:**

A review of all of the Breast cases showed a total of 128 cases of breast cancer were accessioned by the Santa Rosa Memorial Hospital Cancer Registry, (18) Stage 0, (72) Stage I, (30) Stage 2, and (8) Stage 3 disease. 100% of patients in the study were female. 100% histologically confirmed diagnosis. Ages ranged at diagnosis from 25 - 100 with the median age at diagnosis being 64 years of age.

## **STUDY RESULTS:**

Of the 128 cases only two cases fell out of the NCCN guideline for a non-compliance rate of 2%, well within the National rate of 27%. One case did have a justified exception having a history of contralateral breast cancer. One case the patient opted for excision only due to very rural housing.

SANTA ROSA MEMORIAL HOSPITAL - 2016 PRIMARY SITE TABLE

| Primary Site                   | Total       | Class      |            |            | Sex        |           |            | AJCC Stage |            |            |  |  |
|--------------------------------|-------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|--|--|
|                                |             | A          | N/A        | M          | F          | 0         | I          | II         | III        | IV         |  |  |
| <b>All Sites</b>               | <b>1096</b> | <b>897</b> | <b>199</b> | <b>523</b> | <b>573</b> | <b>53</b> | <b>208</b> | <b>107</b> | <b>108</b> | <b>205</b> |  |  |
| <b>Oral Cavity</b>             | <b>35</b>   | <b>33</b>  | <b>2</b>   | <b>30</b>  | <b>5</b>   | <b>0</b>  | <b>2</b>   | <b>0</b>   | <b>3</b>   | <b>13</b>  |  |  |
| Lip                            | 0           | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          | 0          |  |  |
| Tongue                         | 13          | 12         | 1          | 10         | 3          | 0         | 0          | 0          | 0          | 7          |  |  |
| Oropharynx                     | 5           | 5          | 0          | 4          | 1          | 0         | 1          | 0          | 0          | 1          |  |  |
| Hypopharynx                    | 1           | 1          | 0          | 1          | 0          | 0         | 0          | 0          | 0          | 1          |  |  |
| Other                          | 16          | 15         | 1          | 15         | 1          | 0         | 1          | 0          | 3          | 4          |  |  |
| <b>Digestive System</b>        | <b>171</b>  | <b>147</b> | <b>24</b>  | <b>105</b> | <b>66</b>  | <b>0</b>  | <b>15</b>  | <b>17</b>  | <b>16</b>  | <b>55</b>  |  |  |
| Esophagus                      | 16          | 12         | 4          | 10         | 6          | 0         | 1          | 0          | 2          | 3          |  |  |
| Stomach                        | 14          | 13         | 1          | 8          | 6          | 0         | 1          | 0          | 0          | 6          |  |  |
| Colon                          | 28          | 25         | 3          | 13         | 15         | 0         | 4          | 3          | 6          | 12         |  |  |
| Rectum                         | 37          | 31         | 6          | 24         | 13         | 0         | 7          | 4          | 7          | 6          |  |  |
| Anus/Anal Canal                | 2           | 2          | 0          | 1          | 1          | 0         | 0          | 0          | 0          | 1          |  |  |
| Liver                          | 20          | 17         | 3          | 17         | 3          | 0         | 0          | 1          | 1          | 3          |  |  |
| Pancreas                       | 41          | 36         | 5          | 22         | 19         | 0         | 1          | 6          | 0          | 21         |  |  |
| Other                          | 13          | 11         | 2          | 10         | 3          | 0         | 1          | 3          | 0          | 3          |  |  |
| <b>Respiratory System</b>      | <b>159</b>  | <b>137</b> | <b>22</b>  | <b>83</b>  | <b>76</b>  | <b>0</b>  | <b>13</b>  | <b>4</b>   | <b>19</b>  | <b>63</b>  |  |  |
| Nasal/Sinus                    | 2           | 2          | 0          | 2          | 0          | 0         | 0          | 0          | 0          | 1          |  |  |
| Larynx                         | 14          | 13         | 1          | 11         | 3          | 0         | 1          | 1          | 4          | 2          |  |  |
| Other                          | 3           | 3          | 0          | 3          | 0          | 0         | 0          | 0          | 0          | 1          |  |  |
| Lung/Bronc-Small Cell          | 27          | 26         | 1          | 14         | 13         | 0         | 2          | 0          | 2          | 17         |  |  |
| Lung/Bronc-Non Small Cell      | 92          | 80         | 12         | 45         | 47         | 0         | 10         | 2          | 9          | 36         |  |  |
| Other Bronchus & Lung          | 21          | 13         | 8          | 8          | 13         | 0         | 0          | 1          | 4          | 6          |  |  |
| <b>Blood &amp; Bone Marrow</b> | <b>68</b>   | <b>42</b>  | <b>26</b>  | <b>38</b>  | <b>30</b>  | <b>0</b>  | <b>0</b>   | <b>1</b>   | <b>0</b>   | <b>0</b>   |  |  |
| Leukemia                       | 40          | 22         | 18         | 21         | 19         | 0         | 0          | 1          | 0          | 0          |  |  |
| Multiple Myeloma               | 23          | 18         | 5          | 15         | 8          | 0         | 0          | 0          | 0          | 0          |  |  |
| Other                          | 5           | 2          | 3          | 2          | 3          | 0         | 0          | 0          | 0          | 0          |  |  |
| <b>Bone</b>                    | <b>1</b>    | <b>1</b>   | <b>0</b>   | <b>0</b>   | <b>1</b>   | <b>0</b>  | <b>0</b>   | <b>1</b>   | <b>0</b>   | <b>0</b>   |  |  |
| <b>Connect/Soft Tissue</b>     | <b>7</b>    | <b>4</b>   | <b>3</b>   | <b>4</b>   | <b>3</b>   | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>1</b>   | <b>3</b>   |  |  |
| <b>Skin</b>                    | <b>50</b>   | <b>45</b>  | <b>5</b>   | <b>28</b>  | <b>22</b>  | <b>4</b>  | <b>20</b>  | <b>5</b>   | <b>5</b>   | <b>3</b>   |  |  |
| Melanoma                       | 47          | 43         | 4          | 25         | 22         | 4         | 19         | 5          | 4          | 3          |  |  |
| Other                          | 3           | 2          | 1          | 3          | 0          | 0         | 1          | 0          | 1          | 0          |  |  |
| <b>Breast</b>                  | <b>216</b>  | <b>185</b> | <b>31</b>  | <b>4</b>   | <b>212</b> | <b>22</b> | <b>98</b>  | <b>37</b>  | <b>14</b>  | <b>14</b>  |  |  |
| <b>Female Genital</b>          | <b>56</b>   | <b>39</b>  | <b>17</b>  | <b>0</b>   | <b>56</b>  | <b>4</b>  | <b>19</b>  | <b>1</b>   | <b>13</b>  | <b>4</b>   |  |  |
| Cervix Uteri                   | 14          | 10         | 4          | 0          | 14         | 3         | 3          | 0          | 3          | 0          |  |  |
| Corpus Uteri                   | 25          | 20         | 5          | 0          | 25         | 0         | 14         | 0          | 4          | 0          |  |  |
| Ovary                          | 14          | 7          | 7          | 0          | 14         | 0         | 1          | 1          | 6          | 3          |  |  |
| Vulva                          | 1           | 0          | 1          | 0          | 1          | 1         | 0          | 0          | 0          | 0          |  |  |
| Other                          | 2           | 2          | 0          | 0          | 2          | 0         | 1          | 0          | 0          | 1          |  |  |
| <b>Male Genital</b>            | <b>102</b>  | <b>67</b>  | <b>35</b>  | <b>102</b> | <b>0</b>   | <b>0</b>  | <b>6</b>   | <b>22</b>  | <b>13</b>  | <b>22</b>  |  |  |
| Prostate                       | 96          | 62         | 34         | 96         | 0          | 0         | 4          | 22         | 10         | 22         |  |  |
| Testis                         | 6           | 5          | 1          | 6          | 0          | 0         | 2          | 0          | 3          | 0          |  |  |
| Other                          | 0           | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          | 0          |  |  |
| <b>Urinary System</b>          | <b>88</b>   | <b>71</b>  | <b>17</b>  | <b>56</b>  | <b>32</b>  | <b>23</b> | <b>14</b>  | <b>5</b>   | <b>7</b>   | <b>10</b>  |  |  |
| Bladder                        | 61          | 56         | 5          | 41         | 20         | 20        | 10         | 4          | 2          | 5          |  |  |
| Kidney/Renal                   | 24          | 12         | 12         | 14         | 10         | 1         | 4          | 0          | 5          | 5          |  |  |
| Other                          | 3           | 3          | 0          | 1          | 2          | 2         | 0          | 1          | 0          | 0          |  |  |
| <b>Brain &amp; Cns</b>         | <b>39</b>   | <b>33</b>  | <b>6</b>   | <b>22</b>  | <b>17</b>  | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |  |  |
| Brain (Benign)                 | 5           | 3          | 2          | 1          | 4          | 0         | 0          | 0          | 0          | 0          |  |  |
| Brain (Malignant)              | 25          | 23         | 2          | 16         | 9          | 0         | 0          | 0          | 0          | 0          |  |  |
| Other                          | 9           | 7          | 2          | 5          | 4          | 0         | 0          | 0          | 0          | 0          |  |  |
| <b>Endocrine</b>               | <b>19</b>   | <b>18</b>  | <b>1</b>   | <b>4</b>   | <b>15</b>  | <b>0</b>  | <b>7</b>   | <b>1</b>   | <b>6</b>   | <b>1</b>   |  |  |
| Thyroid                        | 18          | 17         | 1          | 3          | 15         | 0         | 7          | 1          | 6          | 1          |  |  |
| Other                          | 1           | 1          | 0          | 1          | 0          | 0         | 0          | 0          | 0          | 0          |  |  |
| <b>Lymphatic System</b>        | <b>63</b>   | <b>55</b>  | <b>8</b>   | <b>36</b>  | <b>27</b>  | <b>0</b>  | <b>14</b>  | <b>13</b>  | <b>11</b>  | <b>17</b>  |  |  |
| Hodgkin's Disease              | 8           | 7          | 1          | 7          | 1          | 0         | 0          | 5          | 1          | 2          |  |  |
| Non-Hodgkin's                  | 55          | 48         | 7          | 29         | 26         | 0         | 14         | 8          | 10         | 15         |  |  |
| <b>Unknown Primary</b>         | <b>17</b>   | <b>17</b>  | <b>0</b>   | <b>8</b>   | <b>9</b>   | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |  |  |
| <b>Other/III-Defined</b>       | <b>5</b>    | <b>3</b>   | <b>2</b>   | <b>3</b>   | <b>2</b>   | <b>0</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   |  |  |