

# 2017 Assessment of Evaluation and Treatment Planning Prostate Cancer

**STUDY PURPOSE:** To assess if Stage I and II Prostate cases diagnosed and treated at Southwest Cancer Center have diagnostic workup and treatment based on NCCN Guidelines.

CoC Cancer Program Requirement: Standard 4.6; Assessment and Evaluation of Treatment Planning: Each year, a physician member of the cancer committee performs a study to assess whether patients are evaluated and treated according to evidence-based national treatment guidelines. The study must determine that the diagnostic evaluation is adequate and the treatment plan is concordant with a recognized guideline.

**Physician Member of Cancer Committee to perform study:** Lukman Tijani, MD

**Background:** The study conducted by Cancer Committee this year analyzed the diagnostic and treatment patterns of Prostate patients compared to the NCCN (National Comprehensive Cancer Network) Version 3.2016.

**Site Specific Sample:** Prostate Cancer  
**Accession Year:** 2017, Class of Case 00-22  
**Focus on AJCC Stage:** Stage I, IIA and IIB  
**2017 Total Cases:** Stage I = 8  
 Stage IIA = 5  
 Stage IIB = 15

**Diagnostic Evaluation and Primary Treatment based on NCCN Guidelines:**

- Pathology Report should contain; histology, Gleason primary and secondary grade.
- History and Physical with attention to; PSA pre-operative value, documentation of DRE (Digital Rectal Exam)
- Bone Scan for PSA over 20 for T1 lesion, PSA over 10 for T2 lesion, Gleason score greater then 8.

**2017 Prostate Cancer; Study Assessment Summary:**

A review of the 2017 Prostate cases notes (8) Stage I, (20) Stage II, (2) Stage 3, and (7) Stage 4, (1) Unknown Stage cases. 100% histologically confirmed diagnoses. Ethnicity; 71% White, 8% African American and 21% Hispanic. Ages ranged from 35 to 96 with the median age at diagnosis being 65.3 years of age.

**Diagnostic Evaluation:**

Pathology data elements per NCCN guidelines

| <u>Histology</u> | <u>Gleason Primary</u> | <u>Gleason Secondary</u> |
|------------------|------------------------|--------------------------|
| 100%             | 100%                   | 100%                     |

History and Physical elements per NCCN guidelines

| <u>Pre-Operative PSA</u> | <u>Documented DRE</u> |
|--------------------------|-----------------------|
| 100%                     | 100%                  |

Bone Scan for PSA over 20 for T1 lesion or PSA over 10 for T2 lesion, Gleason score greater then 8.  
 100% N = 9

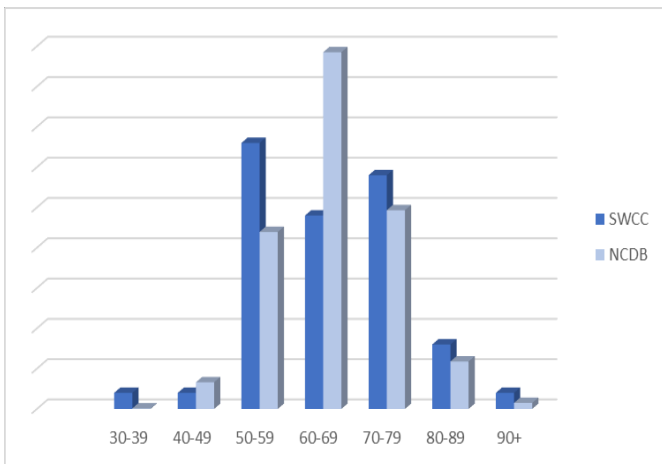
**Evaluation:**

Southwest Cancer Center consistently met the NCCN guidelines for diagnostic workup of prostate cases.

**Recommendations:**

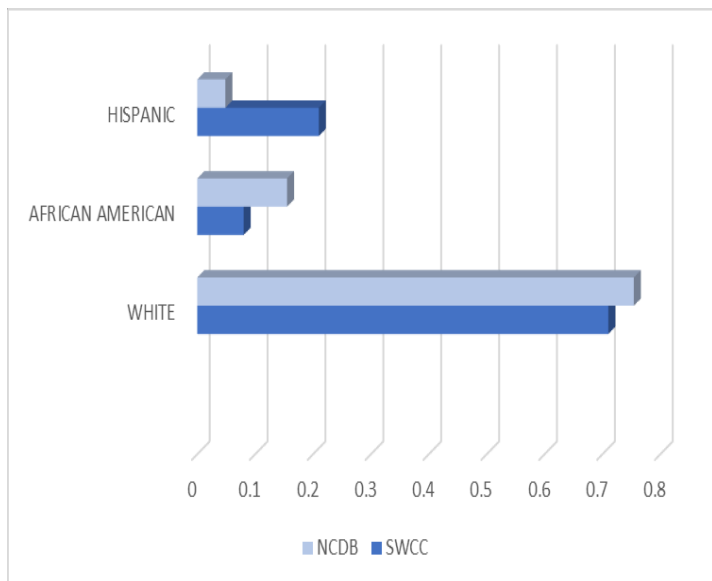
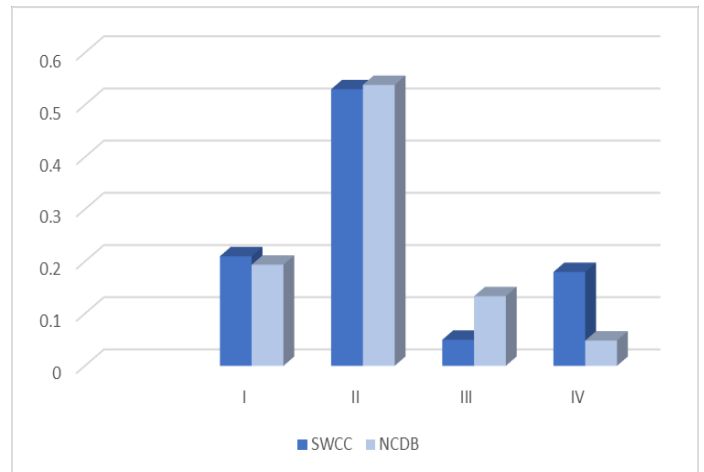
Guidelines are met consistently over the 2017 study year.

**Southwest Cancer Center 2017 Prostate Cases with National Cancer Database (NCDB) comparison**



| Age   | SWCC | NCDB   |
|-------|------|--------|
| 30-39 | 2%   | 0.07%  |
| 40-49 | 2%   | 3.31%  |
| 50-59 | 33%  | 21.96% |
| 60-69 | 24%  | 44.26% |
| 70-79 | 29%  | 24.66% |
| 80-89 | 8%   | 5.89%  |
| 90+   | 2%   | 0.75%  |

| STAGE | SWCC | NCDB   |
|-------|------|--------|
| I     | 21%  | 19.38% |
| II    | 53%  | 53.84% |
| III   | 5%   | 13.34% |
| IV    | 18%  | 4.85%  |



| RACE             | SWCC | NCDB   |
|------------------|------|--------|
| WHITE            | 71%  | 75.42% |
| AFRICAN AMERICAN | 8%   | 15.50% |
| HISPANIC         | 21%  | 4.85%  |

## Southwest Cancer Center 2017 Prostate Cases with National Cancer Database (NCDB) comparison

| Treatment |                   | SWCC | NCDB   |
|-----------|-------------------|------|--------|
|           | Biopsy            | 100% | 67%    |
|           | Surgery           | 39%  | 45.90% |
|           | Radiation         | 11%  | 13.30% |
|           | Radiation/Surgery | 3%   | 1.63%  |

| Southwest Cancer Center - 2017 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>993</b> | <b>796</b> | <b>197</b> | <b>537</b> | <b>456</b> | <b>24</b>  | <b>198</b> | <b>133</b> | <b>89</b> | <b>191</b> |
| <b>Oral Cavity</b>                                | <b>35</b>  | <b>32</b>  | <b>3</b>   | <b>29</b>  | <b>6</b>   | <b>0</b>   | <b>7</b>   | <b>1</b>   | <b>5</b>  | <b>12</b>  |
| Lip   | 4          | 4          | 0          | 3          | 1          | 0          | 0          | 1          | 1         | 0          |
| Tongue  | 10         | 10         | 0          | 8          | 2          | 0          | 2          | 0          | 2         | 5          |
| Oropharynx  | 1          | 1          | 0          | 1          | 0          | 0          | 0          | 0          | 0         | 1          |
| Other   | 20         | 17         | 3          | 17         | 3          | 0          | 5          | 0          | 2         | 6          |
| <b>Digestive System</b>                           | <b>238</b> | <b>199</b> | <b>39</b>  | <b>155</b> | <b>83</b>  | <b>3</b>   | <b>43</b>  | <b>37</b>  | <b>33</b> | <b>67</b>  |
| Esophagus   | 11         | 5          | 6          | 11         | 0          | 1          | 0          | 1          | 3         | 2          |
| Stomach   | 28         | 21         | 7          | 19         | 9          | 0          | 4          | 1          | 2         | 14         |
| Colon   | 73         | 63         | 10         | 43         | 30         | 1          | 10         | 12         | 16        | 18         |
| Rectum  | 13         | 11         | 2          | 6          | 7          | 0          | 1          | 2          | 2         | 5          |
| Anus/Anal Canal                                   | 2          | 2          | 0          | 1          | 1          | 0          | 0          | 1          | 1         | 0          |
| Liver   | 52         | 42         | 10         | 44         | 8          | 0          | 19         | 11         | 3         | 8          |
| Pancreas  | 42         | 39         | 3          | 23         | 19         | 0          | 5          | 7          | 4         | 17         |
| Other   | 17         | 16         | 1          | 8          | 9          | 1          | 4          | 2          | 2         | 3          |
| <b>Respiratory System</b>                         | <b>128</b> | <b>103</b> | <b>25</b>  | <b>78</b>  | <b>50</b>  | <b>1</b>   | <b>20</b>  | <b>8</b>   | <b>13</b> | <b>56</b>  |
| Nasal/Sinus                                       | 4          | 4          | 0          | 4          | 0          | 0          | 0          | 1          | 0         | 2          |
| Larynx  | 15         | 11         | 4          | 14         | 1          | 0          | 2          | 2          | 1         | 4          |
| Other   | 1          | 1          | 0          | 1          | 0          | 0          | 0          | 0          | 0         | 0          |
| Lung/Bronc-Small Cell                             | 12         | 9          | 3          | 6          | 6          | 0          | 0          | 0          | 0         | 11         |
| Lung/Bronc-Non Small Cell                         | 71         | 64         | 7          | 41         | 30         | 0          | 16         | 5          | 10        | 32         |
| Other Bronchus & Lung                             | 25         | 14         | 11         | 12         | 13         | 1          | 2          | 0          | 2         | 7          |
| <b>Blood &amp; Bone Marrow</b>                    | <b>80</b>  | <b>53</b>  | <b>27</b>  | <b>43</b>  | <b>37</b>  | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>  | <b>0</b>   |
| Leukemia  | 46         | 33         | 13         | 26         | 20         | 0          | 0          | 0          | 0         | 0          |
| Multiple Myeloma                                  | 30         | 18         | 12         | 15         | 15         | 0          | 0          | 0          | 0         | 0          |
| Other   | 4          | 2          | 2          | 2          | 2          | 0          | 0          | 0          | 0         | 0          |

|                            |            |           |           |           |            |           |           |           |           |           |
|----------------------------|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|
| <b>Bone</b>                | <b>6</b>   | <b>5</b>  | <b>1</b>  | <b>4</b>  | <b>2</b>   | <b>0</b>  | <b>4</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  |
| <b>Connect/Soft Tissue</b> | <b>12</b>  | <b>12</b> | <b>0</b>  | <b>10</b> | <b>2</b>   | <b>0</b>  | <b>5</b>  | <b>2</b>  | <b>2</b>  | <b>1</b>  |
| <b>Skin</b>                | <b>18</b>  | <b>12</b> | <b>6</b>  | <b>9</b>  | <b>9</b>   | <b>1</b>  | <b>2</b>  | <b>2</b>  | <b>4</b>  | <b>0</b>  |
| Melanoma                   | 15         | 11        | 4         | 8         | 7          | 1         | 2         | 2         | 2         | 0         |
| Other                      | 3          | 1         | 2         | 1         | 2          | 0         | 0         | 0         | 2         | 0         |
| <b>Breast</b>              | <b>120</b> | <b>99</b> | <b>21</b> | <b>0</b>  | <b>120</b> | <b>4</b>  | <b>42</b> | <b>39</b> | <b>5</b>  | <b>9</b>  |
| <b>Female Genital</b>      | <b>48</b>  | <b>40</b> | <b>8</b>  | <b>0</b>  | <b>48</b>  | <b>1</b>  | <b>15</b> | <b>4</b>  | <b>10</b> | <b>4</b>  |
| Cervix Uteri               | 2          | 1         | 1         | 0         | 2          | 0         | 1         | 0         | 1         | 0         |
| Corpus Uteri               | 27         | 22        | 5         | 0         | 27         | 0         | 9         | 2         | 4         | 2         |
| Ovary                      | 14         | 12        | 2         | 0         | 14         | 0         | 4         | 1         | 4         | 1         |
| Vulva                      | 3          | 3         | 0         | 0         | 3          | 1         | 1         | 0         | 0         | 1         |
| Other                      | 2          | 2         | 0         | 0         | 2          | 0         | 0         | 1         | 1         | 0         |
| <b>Male Genital</b>        | <b>73</b>  | <b>51</b> | <b>22</b> | <b>73</b> | <b>0</b>   | <b>3</b>  | <b>13</b> | <b>22</b> | <b>4</b>  | <b>9</b>  |
| Prostate                   | 58         | 38        | 20        | 58        | 0          | 0         | 8         | 21        | 2         | 9         |
| Testis                     | 12         | 10        | 2         | 12        | 0          | 2         | 4         | 1         | 2         | 0         |
| Other                      | 3          | 3         | 0         | 3         | 0          | 1         | 1         | 0         | 0         | 0         |
| <b>Urinary System</b>      | <b>96</b>  | <b>77</b> | <b>19</b> | <b>67</b> | <b>29</b>  | <b>11</b> | <b>15</b> | <b>12</b> | <b>8</b>  | <b>17</b> |
| Bladder                    | 38         | 26        | 12        | 29        | 9          | 10        | 1         | 7         | 0         | 6         |
| Kidney/Renal               | 57         | 50        | 7         | 37        | 20         | 1         | 14        | 5         | 8         | 10        |
| Other                      | 1          | 1         | 0         | 1         | 0          | 0         | 0         | 0         | 0         | 1         |
| <b>Brain &amp; Cns</b>     | <b>35</b>  | <b>31</b> | <b>4</b>  | <b>16</b> | <b>19</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  |
| Brain (Benign)             | 2          | 2         | 0         | 2         | 0          | 0         | 0         | 0         | 0         | 0         |
| Brain (Malignant)          | 23         | 20        | 3         | 9         | 14         | 0         | 0         | 0         | 0         | 0         |
| Other                      | 10         | 9         | 1         | 5         | 5          | 0         | 0         | 0         | 0         | 0         |
| <b>Endocrine</b>           | <b>25</b>  | <b>25</b> | <b>0</b>  | <b>7</b>  | <b>18</b>  | <b>0</b>  | <b>14</b> | <b>2</b>  | <b>2</b>  | <b>1</b>  |
| Thyroid                    | 21         | 21        | 0         | 6         | 15         | 0         | 14        | 2         | 2         | 1         |
| Other                      | 4          | 4         | 0         | 1         | 3          | 0         | 0         | 0         | 0         | 0         |
| <b>Lymphatic System</b>    | <b>54</b>  | <b>36</b> | <b>18</b> | <b>32</b> | <b>22</b>  | <b>0</b>  | <b>18</b> | <b>4</b>  | <b>2</b>  | <b>15</b> |
| Hodgkin's Disease          | 4          | 3         | 1         | 2         | 2          | 0         | 1         | 0         | 1         | 1         |
| Non-Hodgkin's              | 50         | 33        | 17        | 30        | 20         | 0         | 17        | 4         | 1         | 14        |
| <b>Unknown Primary</b>     | <b>20</b>  | <b>18</b> | <b>2</b>  | <b>11</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>1</b>  | <b>0</b>  |