NOTICE OF NEW SERVICE

DATE: July 1, 2009

TO: Housestaff and PCN Physicians, Faculty, and Nursing Personnel

FROM: Sridevi Devaraj, Ph.D., DABCC, FACB
       Director of Toxicology and Special Chemistry

RE: Free PSA TESTING

Effective August 18, 2009 the Free Prostate Specific Antigen (PSA) testing will be performed by the UCDHS Clinical Laboratory, Special Chemistry. The “PSA, Free and Total” EMR request also includes a calculated percent free PSA.

The free PSA test is validated for patients whose Total PSA values are between 4-10 ng/mL. The Total and Free PSA tests will be performed on the Siemens Immulite 2000 instrument, and it should be noted that values obtained by this method are not interchangeable with other assay methods. Thus, the Total PSA (Immulite) result used to calculate the % free PSA should not be compared to the commonly ordered “PSA, screen” and “PSA, monitor” test results that are performed at UCDHS on the Centaur instrument. The percent free PSA is used as an aid in discriminating prostate cancer from benign disease in men 50 years or older whose PSA values are between 4-10 ng/mL and where digital rectal exam findings are not suspicious of cancer.

Reference Interval:

PSA, TOTAL (IMMULITE): ≤ 4 ng/mL
PSA, % free: Probability of cancer by percentage of free PSA and patient age for patient with PSA levels between 4-10.0 ng/mL. JAMA 1998;279(19):1542-1547.

<table>
<thead>
<tr>
<th>% Free PSA</th>
<th>60-64 years</th>
<th>65-75 years</th>
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<tbody>
<tr>
<td>1-10</td>
<td>56</td>
<td>55</td>
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<tr>
<td>10-15</td>
<td>24</td>
<td>35</td>
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<td>15-20</td>
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<td>20-25</td>
<td>10</td>
<td>20</td>
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<td>&gt;25</td>
<td>5</td>
<td>9</td>
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Sample Requirement: One full 5-mL Serum Separator (gold) or Serum (red) tube.

Routine Testing: Performed Wednesday, and Friday

If you have any questions, please contact Dr. Sridevi Devaraj (734-6594) or Teri Cook (734-0283).

APPROVED BY: 
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Professor and Acting Chair
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