MP06-04 Steroid hormone metabolism mediated racial disparity in men with benign prostatic hyperplasia

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Multispectral IHC

Table 1. Distribution of prostate tissue.

<table>
<thead>
<tr>
<th></th>
<th>CA</th>
<th>AA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>BPH</td>
<td>15</td>
<td>22</td>
</tr>
</tbody>
</table>

Testosterone → CYP19A1 → 17β-estradiol

17β-estradiol → SRD5A1,2 → Dihydrotestosterone

Dihydrotestosterone → AKR1C1 → 3β-diol

3β-diol → CYP7B1 → α-Triols

ERα

ERβ
Results

Stromal ERα

Optical Density

CA Normal CA BPH AA Normal AA BPH

Stromal ERβ

Optical Density

CA Normal CA BPH AA Normal AA BPH

Stromal AKR1C1

Optical Density

nuclear cytoplasmic membrane

Stromal CYP7B1

Optical Density

nuclear cytoplasmic membrane

Legend:
- CA Normal
- CA BPH
- AA Normal
- AA BPH

n.s. indicates non-significant differences.

* indicates significant differences.