Abstract #5594: Healthcare access dimensions and uterine cancer survival: A National Cancer Database study

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Affordability, a health care access dimension, predicts survival but does not fully explain racial disparities in survival rates of patients with advanced stage uterine cancer.

NH-Black patients are more likely to have aggressive disease, receive chemotherapy alone, and have worse survival than NH-White patients regardless of pathogenic subtype of uterine cancer.

Background:
• Racial disparities persist throughout the continuum of care for Black patients with uterine cancer
• Few studies have evaluated how multiple healthcare access (HCA) dimensions contribute to these disparities in those with advanced stage disease who meet criteria for adjuvant therapy after surgery

Methods:
• National Cancer Database study
• Patients with Stage III-IV uterine cancer diagnosed between 2004-2015
• Received adjuvant therapy after surgery
• Race and ethnicity collected: non-Hispanic (NH)-Black, Hispanic, NH-White
• HCA dimensions measured using variables defined in the NCDB: affordability, availability and accessibility
• Overall survival analyzed using Kaplan-Meier curves, log-rank test, and multivariable Cox proportional hazard models

Results:
• 43,134 patients:
  - 78.8% NH-White, 15.3% NH-Black, 5.9% Hispanic
  - NH-Black patients compared to NH-White and Hispanic patients had higher rates of:
    o Type II disease (75.6% vs. 53.9% and 55.4%)
    o Stage IV disease (40.8% vs. 30.7% and 32.3%)
    o Receipt of adjuvant chemotherapy alone (53.5% vs. 43.1% and 46.2%)
    o Government funded insurance (58.6% vs. 50.3% and 50.4%)
    o Residence in lowest income quartile (46.4% vs. 14.2% and 29.9%)

Future Directions for Research:
• Investigating additional healthcare access dimensions may be critical to addressing racial disparities in uterine cancer.

Figure 1: Kaplan-Meier curves for survival probability by race and subtype

Table 1: Cox Proportional hazard models for survival adjusted for clinical characteristics and healthcare access variable(s)

<table>
<thead>
<tr>
<th>Race</th>
<th>Clinical + Affordability</th>
<th>Clinical + Availability</th>
<th>Clinical + Accessibility</th>
<th>Clinical + All 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH-Black</td>
<td>1.28 (1.23, 1.33)</td>
<td>1.32 (1.27, 1.36)</td>
<td>1.31 (1.27, 1.35)</td>
<td>1.29 (1.24, 1.34)</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0.90 (0.85, 0.96)</td>
<td>0.93 (0.88, 0.99)</td>
<td>0.93 (0.87, 0.99)</td>
<td>0.91 (0.85, 0.97)</td>
</tr>
</tbody>
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