This brief examines the trends in e-cigarette availability between 2010 and 2012 in 6,998 retail stores selling food and tobacco across the United States. Trained data collectors gathered annual data on the availability of e-cigarettes in cross-sectional samples of various retail outlets located in 468 public middle and high school enrollment areas. This brief shows the changes in e-cigarette availability over time, and more specifically looks at these trends within retail outlet and by the racial/ethnic composition of the neighborhoods where e-cigarettes are sold.

Introduction

Smoking is the leading risk factor for preventable death in the United States, expected to be responsible for nearly one-half million premature adult deaths this year alone.¹ These health concerns have led to comprehensive tobacco control policies including limiting places where people can smoke cigarettes, increasing cigarette excise taxes, and promoting safer nicotine delivery products to encourage smoking cessation.

One of the most recent products on the market is the electronic cigarette (e-cigarette), a nicotine delivery device that simulates tobacco cigarettes by vaporizing nicotine and other chemicals into an inhalable, vaporized liquid. Smokers now have access to e-cigarettes in retail outlets where cigarettes have been traditionally purchased.²³

This brief describes the rising trends in availability of e-cigarettes in retail stores in the United States sampled from 2010 to 2012 as part of the Bridging the Gap Community Obesity Measures Project (BTG-COMP), a large-scale effort to identify local policy and environmental factors likely to be important determinants of healthy eating, physical activity and obesity.
Key Findings

The overall availability of e-cigarettes has gone up rapidly among BTG-COMP retail stores selling any tobacco products between 2010 and 2012 (See Figures 1 and 2).

- Only 3% of BTG-COMP retailers sold e-cigarettes in 2010; the percentage of stores selling e-cigarette more than doubled to 7% in 2011 and then quadrupled to 30% in 2012.
- Drug and convenience stores were most likely to sell e-cigarettes among the BTG-COMP retailers in each of the three years.
  - Half (50%) of drug stores sold e-cigarettes in 2012, rising from 3% in 2011 and 2% in 2010.
  - Almost one-third (31%) of convenience stores sold e-cigarettes in 2012, rising from 9% in 2011 and 4% in 2010.
  - Supermarkets also greatly increased their availability of e-cigarettes, from 1% or less of stores in 2010 and 2011 to almost one-quarter of stores (23%) in 2012.
E-cigarettes are more prominent in BTG-COMP retail stores located in neighborhoods where the residents are predominantly White (See Figure 3).

- By 2012, over one-third (36%) of BTG-COMP retail stores in the predominately White neighborhoods sold e-cigarettes.
- None of the BTG-COMP retail stores located in majority Black neighborhoods in 2010 sold e-cigarettes. This quickly changed by 2012 when almost one-fifth (19%) of BTG-COMP retail stores in the majority Black neighborhoods sold e-cigarettes.
- A similar increase occurred among BTG-COMP retail stores in the majority Hispanic neighborhoods where 18% of retailers sold e-cigarettes in 2012, up from 3% in 2010.

**FIGURE 3  E-Cigarette Availability among BTG-COMP Retail Stores Selling Tobacco Products, by Neighborhood Racial/Ethnic Composition, 2010-2012**

<table>
<thead>
<tr>
<th>Percent of Stores (%)</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predominately White</td>
<td>3</td>
<td>9</td>
<td>36</td>
</tr>
<tr>
<td>Majority Black</td>
<td>0</td>
<td>5</td>
<td>19</td>
</tr>
<tr>
<td>Majority Hispanic</td>
<td>2</td>
<td>3</td>
<td>18</td>
</tr>
<tr>
<td>Diverse</td>
<td>3</td>
<td>4</td>
<td>27</td>
</tr>
</tbody>
</table>

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**Conclusions and Policy Implications**

Overall, sales of e-cigarettes in the United States have increased from 750,000 in 2010 to 3.5 million in 2012. In 2011, about 6% of all adults had tried an e-cigarette, almost twice as many as in 2010. Among youth, the number of high school and middle school students who reported ever using an e-cigarette more than doubled from 4.7% in 2011 to 10.0% in 2012 totaling more than 1.78 million students nationwide. The rise in use of e-cigarettes parallels the rise in availability of these products in retail stores that sell tobacco products. This study finds that the availability of e-cigarettes increased more than ten-fold from 2010 to 2012, with nearly one-third of BTG-COMP retail stores selling e-cigarettes in 2012. Their availability is greatest in drug stores and convenience stores and those located in predominantly White neighborhoods.

Continued research on e-cigarette availability and its relationship to e-cigarette use is needed.

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**Study Overview**

The findings from this brief were derived the Bridging the Gap Community Obesity Measures Project (BTG-COMP) data. The research team identifies local policy and environmental factors that are likely determinants of health outcomes and collects, analyzes and shares data about these characteristics. In this study, data were collected from 6,998 BTG-COMP retail stores that sold food and tobacco products located within school enrollment zones for nationally representative cross sectional samples of 8th, 10th, and 12th grade students attending traditional public schools in the across all stores, with tobacco stores indicating highest availability of these products at 73%.

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*a In 2012, stand-alone tobacco stores were added as a supplemental sample to the Bridging the Gap Community Obesity Measures Project (BTG-COMP) data collection. These stores were not included in this analysis. An analysis of the 2012 BTG-COMP retailer data that includes these tobacco stores shows overall e-cigarette availability of 31%.
continental U.S. in 2010, 2011, and 2012. Retail outlets were classified as supermarkets (sell fresh meat, have 2+ service counters and have 4+ cash registers), grocery stores (sell fresh meat and do not meet the supermarket criteria), convenience stores (do not sell fresh meat and sell a selection of staple groceries often including milk), drug stores (do not sell fresh meat and sell prescription and OTC medication), or other stores that sold beverages and snacks (e.g. small discount, liquor, ethnic, and general merchandise). Neighborhoods (i.e., school enrollment zones) were classified into four mutually exclusive race/ethnic categories according to the racial/ethnic composition of the community. They were classified as predominantly White (>66% White residents), majority Black (>50% Black residents), majority Hispanic (>50% Hispanic residents), or Diverse composition (no clear majority of White, Black or Hispanic residents).

Endnotes


