Institute for Global Tobacco Control

Airbnb -

The Prevalence, Relative Cost, and Availability of Smoking Allowed Accommodations in 4 Canadian Cities

Ryan David Kennedy, PhD; Department of Health, Behavior & Society, Johns Hopkins Bloomberg School of Public Health; **Jackie Dawson**, PhD; Department of Geography, Environment and Geomatics, University of Ottawa, Ottawa Canada

Background

- Airbnb is a web-based service that enables hosts and guests to broker accommodations in private homes
- The traditional hospitality sector has increasingly gone smoke-free over the last decade
- This study identified the prevalence of smoking-allowed accommodations available in the Canadian cities of: Victoria, Vancouver, Toronto and Montreal, and compared the cost and availability of listings to those that are smoke-free

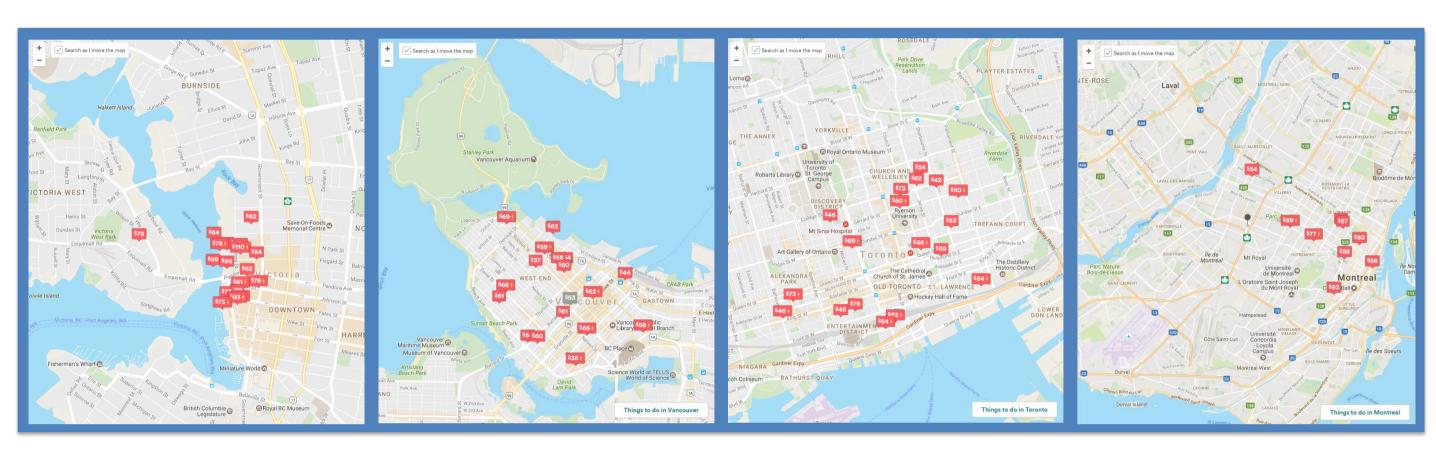


Figure 1. Examples of Airbnb maps showing available accommodations and costs

Methods

- Data were used with permission from InsideAirbnb.com –
 an independent website that compiles information about
 each listing on Airbnb in dozens of cities around the world;
 InsideAirbnb is not associated with or endorsed by Airbnb
 or any of Airbnb's competitors, the data utilizes public
 information compiled from the Airbnb web-site including
 the availability calendar for 365 days in the future, and the
 reviews for each listing data are verified, cleansed,
 analyzed and aggregated
- Data compiled for each listing includes: cost, future availability if smoking is allowed
- The data are compiled by InsideAirbnb at different times; for this study data were collected on the following dates: Victoria, Aug 1, 2016; Vancouver, Dec 3, 2015; Toronto, July 4-5, 2016; and Montreal, May 4, 2016.
- The total number of accommodations available across the 4 cities was N=27,245 including: Victoria (n=1,691), Vancouver (n=4,728), Toronto (n=10,207) and Montreal (n=10,619).

Results

Table 1 - Cost and availability of accommodation by city

| | Victoria | | Vancouver | | Toronto | | Montreal | |
|--|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|
| # listings | n=1,691 | | n=4,728 | | n=10,207 | | n=10,619 | |
| % permit smoking | 4.1% (n=69) | | 3.0% (n=145) | | 4.8% (n=491) | | 10.0% (n=1067) | |
| | Smoke Permitted | Smoke- Free | Smoke Permitted | Smoke- Free | Smoke Permitted | Smoke -Free | Smoke Permitted | Smoke- Free |
| Mean Cost | \$108 | \$124 | \$103 | \$128 | \$103 | \$123 | \$70 | \$93 |
| Median Cost | \$81 | \$102 | \$80 | \$100 | \$75 | \$98 | \$46 | \$70 |
| % Next 30 Day availability (days) | 40% (12) | 27% (8) | 55% (16) | 44% (13) | 35% (10) | 28% (8) | 46% (14) | 42% (13) |

- The proportion of properties that permitted smoking was 4.1% in Victoria, 3% in Vancouver, 4.8% in Toronto and 10.0% in Montreal
- In each city, the mean and median price for one-night of accommodation in smoke-allowed listings was less than those listed as smoke-free; there greatest cost difference was found in Vancouver the mean cost for a one-night stay in smoking allowed accommodation was \$103, compared to \$128 for one night in a smoke-free listing.
- In each city, smoke-free accommodations were less available than smoking-permitted listings when looking at the next 30-days of availability (average number of available days was 10.5 days for smoke-free listings compared to 13.2 days for smoking-allowed, averaged across the entire sample); the greatest availability difference was found in Victoria 40% of smoking permitted accommodations were available compared to 27% of smoke-free

Conclusions

- The availability of smoking allowed accommodations varies across the 4 Canadian cities; prevalence of smoking-allowed accommodation in Airbnb is less than the estimated proportion of Canadian households that permit smoking (12.5%).
- In this sample of Airbnb listings in 4 Canadian cities, smoke-free accommodations on average were more likely cost more than smoking-allowed listings; there was also lower availability for smoke-free accommodations which could mean these were more likely to be booked than smoking-permitted accommodations.
- In these cities, Airbnb hosts may wish to consider making their venues smoke-free to improve their bookings and income; it is unclear how or if the market is responding to differences in availability of smoking permitted accommodations.

