

Thematic Analysis of Facebook Advertising Messages for Tobacco Products in a Western New York Metropolitan Area



Astghik Baghinyan, Manpreet Kaur, Liane Schneller, Krystalyn Bates, Jacqueline Attia, Zidian Xie, Dongmei Li, Deborah J. Ossip, Scott McIntosh

Department of Public Health Sciences, University of Rochester Medical Center, Rochester, NY, USA

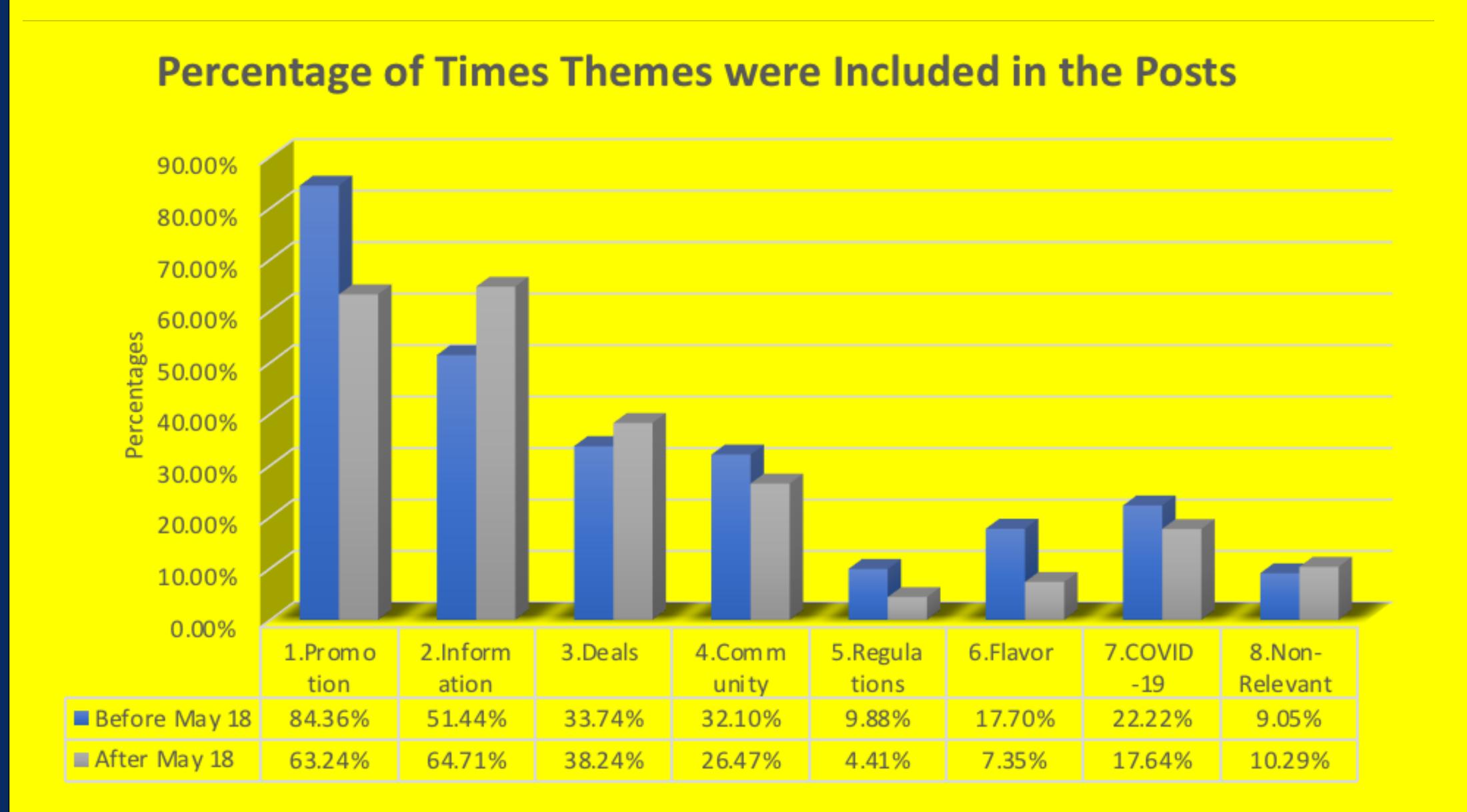
BACKGROUND

- Over the past few years vaping prevalence has increased in the U.S. as people either switch to electronic cigarettes from traditional cigarettes thinking they are safer or due to influence by tobacco companies' strategic marketing efforts (1).
- In addition to an increase of electronic nicotine delivery systems (ENDS) the nicotine vapor industry itself has boomed with thousands of new "vape shops" that create a trusted community of vapers (2).
- Unfortunately, the rise of ENDS products has also attracted many young people because of the availability of flavors, even though its harms are well known (3).
- It has also been found that many consumers who use ENDS also use social media networks and follow ENDS brands (4).
- In order to protect the children from becoming the target of e-cigarette industries marketing efforts, the New York Governor issued a ban that took effect in May 18th that prohibits the sale of all flavored tobacco (5).
- shops and successful marketing strategies creating a trusted community of vapers, it is important to study observable social media strategies to better understand their impact on consumer behavior and addiction.

METHODS

- For this study, Facebook posts from January 31st until July 1st of 15 smoke-shops were analyzed in Rochester area.
- After initial study of all the posts, 2 independent coders, with a supervision of a third one, thematically coded all posts into 8 themes with sub-themes.
- Later, the posts were divided into 2 groups by date- from January 31st until May 18th Flavor Ban, and from May 19th until July 1st, and were analyzed for differences.
- Figure 1 depicts the percentage differences of each theme before and after the ban. Figure 2 depicts the percentage differences of the sub-themes of the main themes Promotion, Information, Deals, Regulations, and Other.

Figure 1:



OBJECTIVES

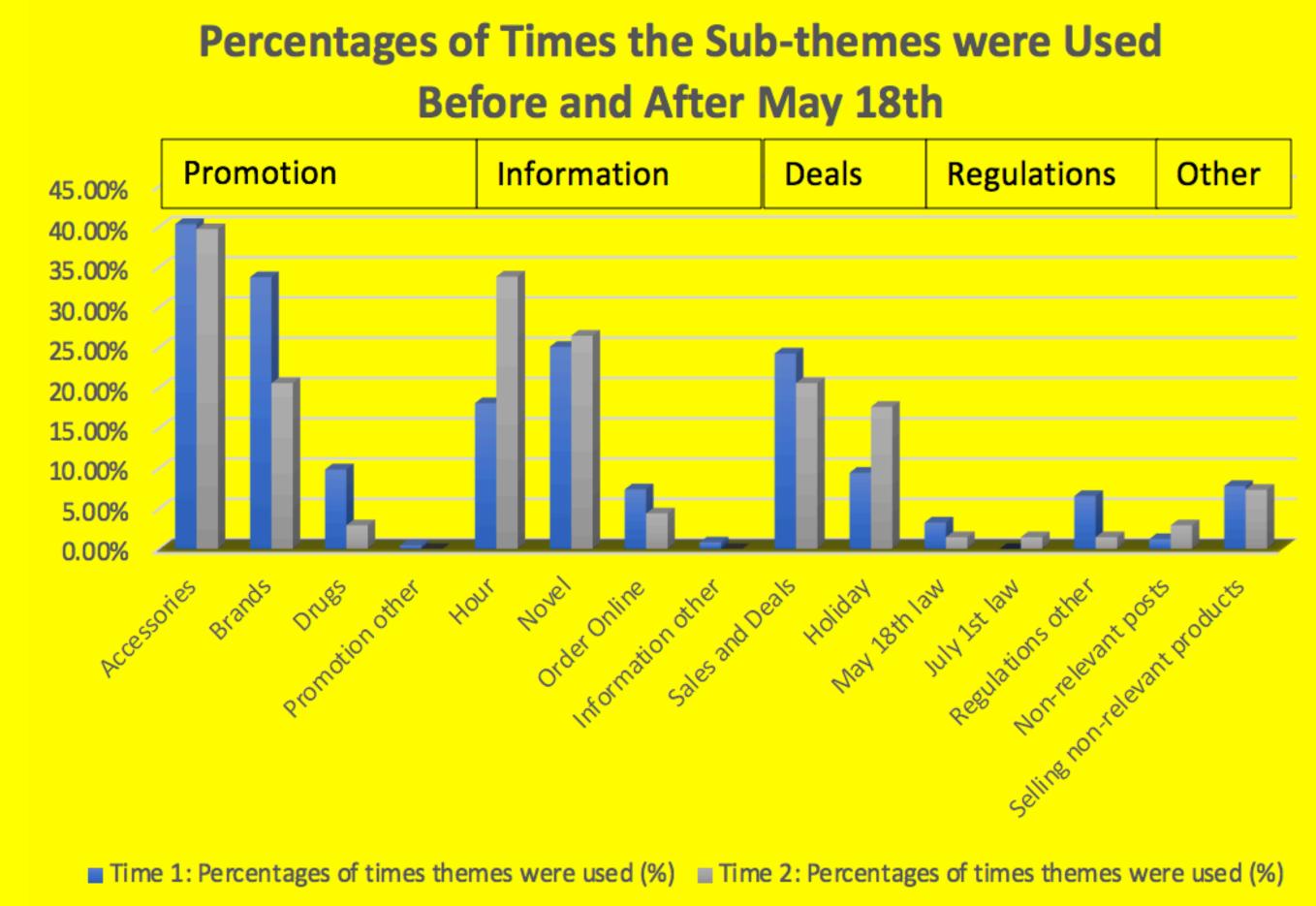
With the rise of vape

To determine and analyze vape shops' Facebook marketing strategies in the Rochester Metropolitan area before and after the May 18th flavor ban via open coding thematic analysis.

REFERENCES

- 1. Sanford, Z., & Goebel, L. (2014). E-cigarettes: an up to date review and discussion of the controversy. West Virginia Medical Journal, 110(4), 10+. Retrieved
- 2. Langley, T., Bell-Williams, R., Pattinson, J., Britton, J., & Bains, M. (2019). 'I Felt Welcomed in Like They're a Little Family in There, I Felt Like I Was Joining a Team or Something': Vape Shop Customers' Experiences of E-Cigarette Use, Vape Shops and the Vaping Community. International journal of environmental research and public health, 16(13),
- 3. Klager, S., Vallarino, J., MacNaughton, P., Christiani, D. C., Lu, Q., & Allen, J. G. (2017). Flavoring Chemicals and Aldehydes in E-Cigarette Emissions. *Environmental science & technology*, 51(18), 10806, 10813. https://doi.org/10.1021/pos.org/10.10
- 4. Population Assessment of Tobacco and Health (PATH) Study. https://doi.org/10.3886/Series606. Accessed 20 Dec 2019.
- 5. New York State Department of Health Announces Statewide Ban of Flavored Nicotine Vapor Products Takes Effect Today. New York State Department of Health. (2020). Retrieved 2 July 2020, from
- New York City's 'big test' begins with easing of some coronavirus restrictions | CBC News. (2020). Retrieved 2 September 2020, from https://www.cbc.ca/news/world/nyc-coronavirus-phase-one-15002727

Figure 2:



RESULTS AND DISCUSSION

- After the flavor ban, vape shops promoted, via "Promotion" posts on Facebook, their products fewer times than prior to the flavor ban (63.24% vs 84.36%). Most of this decrease is observed due to the decrease in sub-themes of "Promotion": "Brands" and "Drugs" as seen in Figure 2.
- However, the "Information" posts increased from 51.44% to 64.71% which is mostly due to the increase in the posts of the sub-theme of "Information" "Shop Hours". This can be explained with eased Covid-19 restrictions at the end of Spring and beginning of Summer (6) stores started re-opening and informing their costumers about their new hours.
- There was also a substantial decrease in posts about vaping "Flavors": from 17.70% to 7.35%. This is likely due to their inability to legally sell flavored nicotine products.
- Substantially fewer posts, post-ban, were observed in theme categories "Community" and "Regulations" categories, which likely reflects a decreased need to challenge flavor regulations and a decreased need to ask their customer communities for support for such challenges.
- Interestingly, a decrease in the prevalence of COVID-19 related posts (22.22% vs. 17.64%) was observed over time, likely reflecting the various retail re-opening phases in New York State.
- However, it is important to note that substantially fewer posts were considered in Time 2 in comparison to Time 1 (243 posts vs. 68 posts). This could have resulted in incorrect data due to a small sample for Time 2.