Manual annotation of Tweets: The following coding scheme was used for binary classification of whether the tweet discussed nicotine sickness (including first-hand or second-hand experiences), intentional overconsumption of nicotine, intent to quit, mention of product type/brand, or withdrawal symptoms not related to nicotine sickness.

| THEME/SUB-THEME                                      | SIGNAL | CODING SCHEME                                                                                                                                                     |
|------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| **Nicotine Sickness Symptom Reporting** (First-hand/Second-hand) | YES    | - Mention of specific nicotine sickness symptoms such as vomiting, nausea, headache, burning sensation in throat, fatigue (varied severity) during or after nicotine use.  
- Reporting nicotine sickness symptoms of self or friends/family/neighbors (mention of relationship, tagging the profile of other users).  
- Reporting visiting clinic/urgent care/ER or hospitalization for alleged nicotine sickness symptoms.  
- Users seeking suggestions on overcoming nicotine sickness symptoms. |
|                                                      | NO     | - Tweeting news posts related to nicotine sickness.  
- Tweets on nicotine sickness symptoms by users or public health organizations to create awareness about nicotine sickness.  
- Nicotine sickness due to exposure in tobacco fields.  
- Tweets unrelated to nicotine sickness using the hashtag “nic sick”.  
- Sarcasm/jokes about nicotine sickness. |
| a. Intentional overconsumption of nicotine          | YES    | - Reporting intentional use of nicotine over and above one’s tolerance level to experience “nicbuzz”.                                                              |
|   | Description                                                                 |
|---|-----------------------------------------------------------------------------|
| b. Intent to quit              | YES                                                                         |
|                             | • Users discussing nicotine sickness symptoms and an alleged intent to quit nicotine use due to unpleasant adverse effect. |
| c. Mention of product type/brand | YES                                                                         |
|                             | • Users discussing nicotine sickness symptoms during or after use of a specific nicotine product or brand (e.g., JUUL, Puff Bar etc.,) |
| d. Withdrawal symptoms (not related to nicotine sickness) | YES                                                                         |
|                             | • Users discussing varied symptoms or adverse effects associated with nicotine withdrawal. |

© 2022 Purushothaman V. et al.