Poster No.

What Malaysians Tweeted about P-127 COVID-19? An Exploratory Study

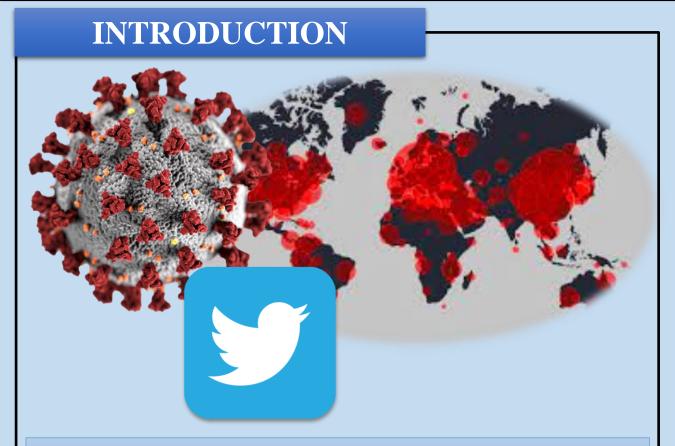


GANASEGERAN Kurubaran 1*, JAMIL Mohd Fadzly Amar 1, HOR Chee Peng 1,2, CHIN Chen Joo¹, ALBART Stephenie Ann ¹, DANIAL Monica ¹, MOHD NOOR Juliana¹, ABDUL HAMID Norshahida ¹, LOH Hong Chuan ¹, CH'NG Alan Swee Hock ¹, LOOI Irene ¹



¹Seberang Jaya Hospital; ²Kepala Batas Hospital

NMRR-20-605-54414



- ❖Exploring phenomenological experiences "now" during pandemic times facilitate timely construction of riskcommunication framework for pubic health interventions.
- *We aimed to explore public perceptions and reactions towards the COVID-19 pandemic in Malaysia via thematiccontent analyses using Twitter.

METHODOLOGY

Access to Twitter Developers API Platform



Pulling of Real-Time Tweets via R Studio **Environment (Package twitteR)**





Twitter users identification limited to 5 geographical centroids across Malaysia via circular radius

Tweets Retrieval and Filtering Process

42028 tweets retrieved between 10th till 25th May 2020 using keywords COVID-19, Coronavirus, SARS-CoV-2, 2019nCoV

23,426 tweets removed:

- •Similar tweets (5237) •Non-English/Malay tweets (1971)
 - •Tweets not related to Malaysia (15104)

Thematic-Content Analysis

f I'm not mistaken I think I saw a notice from the library saying they wi

can't believe the UK are even considering returning so early. Malaysia's in

vaive the late fees during covid-19. Maybe check out their websit

Ade budak perak dlm group kerja lama aku ni sibuk perlekeh ape yang

Kerajaan Negeri Selangor buat utk Pandemik Covid-19 ni. Selangor tak follow PKPB die persoal, ni Selangor start PKPB mulai 13 Mei esok pun die persoal. Tak sedar diri menumpang duduk Puchong tu.

Sebelum ni, bila orang pakai mask mesti rasa pelik. Tapi sekarang bila wab covid-19 muncul, orang yang tak pakai mask pulak kita rasa pelik

• URL tweets only (1114)

18602 tweets for analysis

Text Pre-Processing

Removal of

Numbers Filtering of

Removal of URLs

Stopwords

Removal of Special

Characters





Word Cloud Analysis

Favorite Count Ratios Analysis

W@K @waklu88 · May 12, 2020

🥷 @niesawahab · May 12, 2020

RESULTS

Figure: Word Cloud Analysis

Table: Thematic-Content Analysis

Major Themes	Personal Experiences	Risk Perceptions	Expressions & Reactions
Favorite Ratios	17.18	14.97	12.82
Sub Themes	1. Direct "Whenever you step out of the	1. Seriousness of infectivity "It's sad to see	1. Relief "It's been a week that sarawak has

The fear is real."

house, you feel

like Coronavirus

is watching you.

2. Indirect "My brother has been suspected for covid 19. Hope recover soon."

lots of companies are being affected during Covid-19" 2. Downplayed

risk

"No no no, everyone knows that Covid-19 is caused by 5G!"

no new record for positive case of covid-19!"

2. Frustrations

"When you ready for raya but Covid-19 made other plans"

3. Hope

"All we can do is pray for freedom from Covid-19"

4. Appreciation

"Every thought counts! Send your appreciation to our dedicated frontlines"

5. Appeal

"Keeping each other safe is everyone's responsibility."

DISCUSSION

- ❖The generated cloud during pandemics revealed that Malaysian tweets had the highest weightage on general information about "cases," and updates about the "virus," "outbreak," and "control measures," consistent with the findings from UK.1
- ❖People's emotions and sentiments were mixed. "Personal experiences" had the highest favorite ratio that identified self-own (direct) and other people's (indirect) experiences of being infected with COVID-19.
- ❖Some tweets expressed "seriousness of infectivity" while some "downplayed the risks!" These circumstances showed people's mixed emotions and reactions towards the pandemic; either they were being "relieved," "frustrated," "having new hopes," "appreciated others," or had an "appeal to others."

CONCLUSION

In unexpected times, people's conversation change, evolve, and becomes flux overtime. The understanding of real-time public conversations in early days of crises and beyond may signal caution for public health advocates to craft appropriate risk-communication framework and strategies.

REFERENCES

1. Karmegam D, Mapillairaju B. What people share about the COVID-19 outbreak on Twitter? An exploratory analysis BMJ Health & Care Informatics 2020; 27:e100133.