**Vaccine Misinformation and Vaccine Hesitancy in 3 Middle Income Countries**

**Codebook**

***Do NOT code URLS (do not go to URLs)***

**Code implicitly**

**Q1)** Is this tweet **relevant** to vaccines (for any diseases)?

Yes=1

No=2 (**proceed to next tweet**)

*[Main subject of the tweet is vaccine for humans. Tweet is about getting vaccine, safety of vaccine, ingredients of vaccine, or sentiment about vaccine. If about Vaccine passports or vaccine identification - then code not relevant; if any part of the tweet has vaccine certificate/passport then code not relevant* ]

Even if the tweet contains other information, but mentions about vaccine then it is vaccine.

[Note to Research Profs: *March 2020, any “vaccine” tweets are COVID relevant - will denote in data file later*]

**Q2)** Does this tweet mention a specific **non-COVID vaccine** (e.g., polio, rubella, MMR, flu)?

Yes=1

No=2

**Q3)** Does this tweet contain misinformation about vaccines (see pre-identified list of misinformation. It doesn’t have to be word-for-word of the example tweets, but if it contains any of those examples. )?

Yes= 1

No= 2 (**proceed to Vaccine Sentiment question**)

Uncertain = 3 - may contain misinformation that is not in the pre-identified list (will follow up later to update the list of misinformation)

(**proceed to Vaccine Sentiment question**) - will do second round of misinformation detection

**Please note we removed “uncertain” (3) from the options**

**Q4a)** Is this tweet about *vaccine development, availability or access*?

Yes=1

No=2

**Q4b)** Is this tweet about *safety, efficacy or acceptance*?

Yes=1

No=2

**Q4c)** Is this tweet about *infertility*?

Yes=1

No=2

**Q4d)** Is this tweet about *political and economic motives*?

Yes=1

No=2

**Q4e)** Is this tweet about *mandatory vaccines and ethics*?

Yes=1

No=2

**Q4f)** Is this tweet about *vaccine reagents*?

Yes=1

No=2

**Q4g)** Is this tweet about *vaccine morbidity (injury) or mortality (death)*?

Yes=1

No=2

**Q4h)** Is this tweet about *vaccine alternatives*?

Yes=1

No=2

**Q4i)** Is this tweet about *susceptibility due to influenza vaccine exposure*?

Yes=1

No=2

**Q4j)** Is this tweet about vaccine misinformation that did not fit to the above sub-themes? (**misc** variable)

Yes=1

No=2

**If Code Q1=1 (relevant) -- then Code Q5a-Q5b:**

***Someone can express both positive and negative sentiment, but will tend to lean more towards one. Choose the dominant sentiment. Use emojis, punctuation (e.g., exclamation) to help determine signals of sentiment. Typically, the last sentiment is where people disclose their sentiment. (when the sentences before are unclear or appear neutral).***

**Q5a**) Overall *dominant* sentiment - of the ***tweet***

Negative=1

Neutral =2 (neither positive nor negative; like a fact; or reporting of an event)

Positive=3

***Q5b)*** *Overall dominant sentiment of the* ***Vaccine***

Negative=1

Neutral =2 (neither positive nor negative; like a fact; or reporting of an event)

Positive=3

**e.g.**, If someone tweets negative about accessibility but positive about safety, then choose the **dominant sentimen**t.

**example of vaccine sentiment:**

**coding problem: “fact” tweet, indication of sentiment toward the fact in the tweet.**

**positive**

|  |
| --- |
| reminder — “while vaccine is good, it is not a bulletproof vest against you (vaxxed) getting infected, carrying the virus and you spreading it to others.➡️ though remember the risk of infection if vaxxed is much lower. But it’s non zero.  US children will 'hopefully' get vaccines in late spring or early summer, says Fauci https://t.co/FSpYyKrH1H https://t.co/P9owDEy0IE |

**Neutral**

|  |
| --- |
| South Korea to get 700,000 COVID shots from Israel as cases surge | Coronavirus pandemic News https://t.co/GDX4onKOEJ |

|  |
| --- |
| The Federal Government To Extend the First Phase of COVID-19 Vaccination in the Country by Two Weeks. https://t.co/6mkTyS1CJT #ARTrending #COVID19 |