

Table S1. Search keywords used for literature search

Journal Databases Keyword Strategy

Search Keywords

1) Generic Exposure of Interest – social media

“social media” [tiab] OR “social network*”[tiab] OR “Facebook”[tiab] OR “Twitter”[tiab] OR “linked in” [tiab] OR “linkedin” [tiab] OR “YouTube”[tiab] OR “Instagram”[tiab] OR “Pinterest” [tiab] OR “Snapchat” [tiab] OR “Tumblr” [tiab] OR “MySpace” [tiab] OR “tiktok” [tiab] OR “tik tok” [tiab]

AND

2) Outcome of Interest - vaccination

“vaccination” [mesh] OR “vaccin*”[tiab] OR “immunizati*”[tiab] OR “immunisati*”[tiab]

AND

3) Outcome of Interest – COVID-19

(COVID-19 [mh] OR 2019 novel coronavirus disease[tiab] OR COVID19[tiab] OR sarscov 2 infection[tiab] OR 2019 novel coronavirus infection[ti] OR 2019 ncov infection[tiab] OR 2019 ncov disease[tiab])

Table S2. Inclusion and exclusion criteria used when conducting the literature review

	Inclusion	Exclusion
Patient population	Any patient population	None
Intervention & Comparator	No intervention and no comparator required. If identified, we will include studies that used social media platforms as an intervention to address vaccination intentions.	
Outcomes	Any outcome related to COVID-19 vaccine (attitudes, opinion, etc) gathered from the social media platforms. Studies that analyzed the relation between the utilization of social media and COVID-19 hesitancy/acceptance will also be included.	Studies that reported no outcome of interest or analyzed data from sources other than social media (websites, newspapers, etc) will be excluded.
Study Design	Studies of any design will be included.	None
Limits	English language only	
Timespan	From inception until March 2022	

Table S3. Results of study quality appraisal of the included studies.

Study	Total Score	Selection			Comparability	Outcome	
		Representativeness of the sample	Sample size	Non-respondents	Ascertainments of exposure	Based on design and analysis	Assessment of Outcome
Alfatease et al., 2021	6	*	*		*	*	*
Allington et al., 2021	7	*	*		*	**	*
Allington et al., 2021	8	*	*		**	*	**
Al-Hasan et al., 2021	7	*	*		*	**	*
Alley et al., 2021	5	*			*	*	*
Aloweidi et al., 2021	9	*	*	*	**	*	**
Al-Marshoudi et al., 2021	7	*	*	*	*	*	*
Al-Mulla et al., 2021	5	*			*	*	*
Al-Wutayd et al., 2021	5		*		*	*	*
Barry et al., 2021	9	*	*	*	**	*	**
Berenson et al., 2021	7	*	*		**		**
Brailovskaia et al., 2021	6	*			*	**	*
Burger et al., 2022	6	*	*		*	*	*
Citu et al., 2022	6	*			*	**	*

Coughenour et al., 2021	7	*	*		*	**	*	*
Cui et al., 2022	6	*	*		*	*	*	*
Dambadarjaa et al., 2021	7	*	*		*	**	*	*
Ezati Rad et al., 2022	4				*	*	*	*
Fazel et al., 2021	5				*	**	*	*
Fontenot et al., 2021	8	*	*	*	*	**	*	*
Gewirtz-Meydan et al., 2022	6	*			*	**	*	*
Ghaddar et al., 2022	4				*	*	*	*
Ghaffari-Rafi et al., 2021	5	*			*	*	*	*
Hatton et al., 2021	6	*	*		*	*	*	*
Hou et al., 2021	5				*	**	*	*
Horiuchi et al., 2021	4				*	*	*	*
Jabbour et al., 2022	6	*			*	**	*	*
Jafar et al., 2022	7	*	*		*	**	*	*
Jain et al., 2021	7	*	*		*	**	*	*
Jennings et al., 2021	8	*	*		**	*	**	*
Karabela et al., 2021	5	*			*	*	*	*

Lee & You, 2021	5	*				*	*	*	*
Luo et al., 2021	10	*	*	*		**	**	**	*
Marinos et al., 2021	4					*	*	*	*
Mascherin & Nivakoski, 20022	7	*	*			*	**	*	*
Mir et al., 2021	7	*	*			*	**	*	*
Mo et al., 2021									
Mose et al., 2022	5	*				*	*	*	*
Ouyang et al., 2022	5					*	**	*	*
Othman et al., 2022	6	*	*			*	*	*	*
Park et al., 2021	9	*	*			**	**	**	*
Piltch-Loeb et al., 2021	6	*	*			*	*	*	*
Qiao et al., 2020	8	*	*	*		**	*	**	
Reno et al., 2021	4					*	*	*	*
Riad et al., 2020	6	*	*			*	*	*	*
Riad et al., 2021	8	*	*	*		*	**	*	*
Riad et al., 2021	8	*	*	*		**	*	**	
Romer and Jamieson, 2021	9	*	*	*		**	*	**	*

Ruiz and Bell, 2021	8	*	*		**	*	**	*
Sallam et al., 2021	9	*	*		**	**	**	*
Šiđanin et al., 2021	7	*	*		*	**	*	*
Silva et al., 2022	6	*	*		*	*	*	*
Singh et al., 2021	4				*	*	*	*
Sirikalyanpaiboon et al., 2021	6	*			*	**	*	*
Strathdee, et al., 2021	5	*			*	*	*	*
Tan et al., 2022	8	*	*	*	*	**	*	*
Wang et al., 2021	8	*	*	*	*	**	*	0*
Xin et al., 2021	6	*	*		*	*	*	*
Zhang et al., 2020	7	*	*	*	*	*	*	*
Zhang et al., 2021	10	*	*	*	**	**	**	*
Zimand-Sheiner et al., 2021	6	*			*	**	*	*