Appendices Appendix 1. Search strategy

MEDLINE search

("coronavirus"[MeSH] OR "coronavirus infections"[MeSH Terms] OR "coronavirus"[All Fields] OR "covid 2019"[All Fields] OR "SARS2"[All Fields] OR "SARS-CoV-19"[All Fields] OR "severe acute respiratory syndrome coronavirus 2" [supplementary concept] OR "coronavirus infection" [All Fields] OR "severe acute respiratory pneumonia outbreak" [All Fields] OR "novel cov" [All Fields] OR "2019ncov" [All Fields] OR "sars cov2" [All Fields] OR "cov22" [All Fields] OR "ncov" [All Fields] OR "covid-19" [All Fields] OR "coronaviridae" [All Fields] OR "corona virus" [All Fields])

AND

("Immunization" [Mesh] OR "Immunotherapy" [Mesh] OR "Vaccination" [Mesh] OR "Mass Vaccination" [Mesh] OR "Immunization Programs" [Mesh] OR ((immunization OR immunisation OR vaccinat*) AND (program* OR rate*)) OR vaccinat* OR immunization OR "Disease Outbreaks/prevention and control" [Mesh])

AND

(Acceptance OR willingness OR adherence OR uptake OR barrier* OR facilitator* OR "Health Knowledge, Attitudes, Practice"[MeSH] OR "Patient Acceptance of Health Care "[MeSH] OR "Vaccination/psychology"[MeSH])

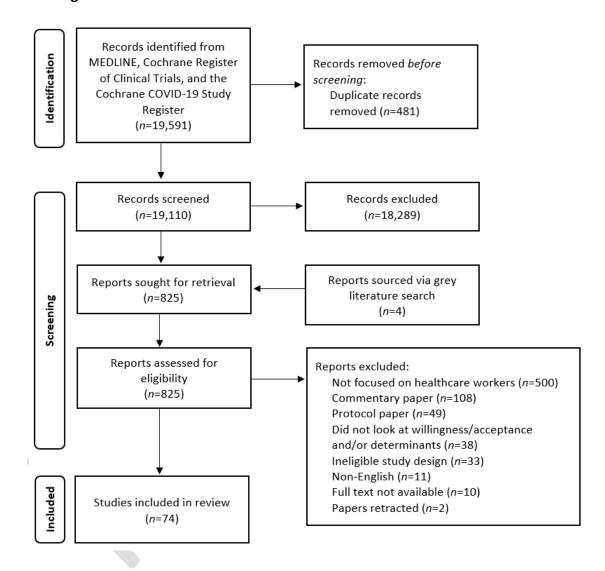
Cochrane databases search

(vaccin* OR immunizat*)

AND

(Acceptance OR willingness OR adherence OR uptake OR barrier* OR facilitator*)

Appendix 2. PRISMA flow diagram



Appendix 3. Evidence of COVID-19 vaccination acceptance among healthcare workers (HCWs) (number of studies [k]=74)

Author	Publication	Country	Design	Sample	Sample	Data	Mean %	TDF domains
	status				size	collection	vaccine	
						period	acceptance	
North American stu	udies (<i>k</i> =23), list	ted in order of	end of da	ta collection period				
Manning et al.	Published	USA	CS	HCWs (nurse faculty	1,212	Aug 10 - Sep	50%	Beliefs about consequences
				and student nurses)		14, 2020		
Lucia et al.	Published	USA	CS	HCWs (medical	168	Sep 14-30,	77%	Social influences
				students)		2020		Beliefs about consequences
Gadoth et al.	Preprint	USA	CS	HCWs (non-	609	Sep 24 - Oct	32%	Environmental context and
				physicians)		16, 2020		resources
								Social/professional role
								and identity
								Beliefs about consequences
Verger et al.*	Published	Canada	CS	HCWs	1,055	Oct-Nov,	45%	Social influences
		data only				2020		Beliefs about consequences
								Reinforcement
Shekhar et al.	Published	USA	CS	HCWs	3,479	Oct 7 - Nov 9,	36%	Social/professional role
						2020		and identity
								Beliefs about consequences
Unroe et al.	Published	USA	CS	HCWs (nursing	8,243	Nov 14-17,	45%	Social/professional role
				home and assisted		2020		and identity
				living staff)				Beliefs about consequences
Mascarenhas et al.	Published	USA	CS	HCWs (dental	245	Dec, 2020	56%	Social influences
				students)				Beliefs about consequences

SafeCare-BC	Published (report)	British Columbia, Canada	CS	HCWs (continuing care workers)	1,503	Dec, 2020	57%	Social influences Social/professional role and identity Beliefs about consequences Beliefs about capabilities Reinforcement
Shaw et al.	Published	USA	CS	HCWs	5,287	Nov 23 - Dec 5, 2020	58%	Social/professional role and identity Beliefs about consequences
Kuter et al.	Published	USA	CS	HCWs	12,034	Nov 13 - Dec 6, 2020	64%	Knowledge Social/professional role and identity Beliefs about consequences Reinforcement
Jain et al.	Preprint	USA	CS	HCWs	2,135	Nov 16 - Dec 8, 2020	69%	Beliefs about consequences
Meyeret al.	Published	USA	CS	HCWs	16,158	Dec 4-22, 2020	53-80%	Beliefs about consequences
Harrison et al.	Published	USA	Qual	HCWs (skilled nursing facility staff)	58	Dec 17-23, 2020	Not reported (Qual data)	Knowledge Social influences Beliefs about consequences
Dzieciolowska et al.	Published	Canada	CS	HCWs	2,761	Dec 15-28, 2020	81%	Social/professional role and identity
Canadian PSW Network	Published (report)	Canada	CS	HCWs (personal support workers)	562	Jan 5, 2021	64%	Knowledge

Desveaux et al.	Preprint	Ontario,	CS	HCWs (non-	8,634	Jan 4-12,	80%	Environmental context and
		Canada		physicians)		2021		resources
								Social/professional role
								and identity
								Beliefs about consequences
								Reinforcement
Grumbach et al.	Published	USA	CS	Gen pub & HCWs	3,161	Nov 27, 2020	66% (Gen	Social influences
				samples	(Gen	- Jan 15, 2021	pub); 84%	Beliefs about consequences
					pub);		(HCWs)	
					1,803			
					(HCWs)			
Berry et al.	Published	USA	Qual	HCWs	193	Dec 30, 2020	Not	Beliefs about consequences
						- Jan 15, 2021	reported	
							(Qual data)	
Kociolek et al.	Published	USA	CS	HCWs	4,448	Dec 21, 2020	59%	Social/professional role
						- Jan 13, 2021		and identity
								Beliefs about consequences
Ontario College of	Published	Canada	CS	HCWs (pharmacy	6,677	Jan 12-21,	79%	Social/professional role
Pharmacists	(report)			professionals)		2021		and identity
								Beliefs about consequences
McCabe et al.	Preprint	USA	CS	Gen pub (inc. HCWs)	34,470	Dec 4, 2020 -	81%	Social/professional role
						Feb 9, 2021		and identity
Moniz et al.	Preprint	USA	CS	HCWs	11,387	Feb 1-15,	85%	Social/professional role
						2021		and identity
								Reinforcement

King et al.	Preprint	USA	Coh	Gen pub (inc. HCWs)	732,308	Jan 6 - Mar 31, 2021	86%	Social/professional role and identity
Author	Publication	Country	Design	Sample	Sample	Data	Mean %	TDF domains
	status				size	collection	vaccine	
5 . (.)		<u> </u>	6 1 6			period	acceptance	
				lata collection period			T	T
Papagiannis et al.	Published	Greece	CS	HCWs	461	Feb 10-25, 2020	43%	Social/professional role and identity
Zigron et al.	Published	Israel	CS	HCWs (dental professionals)	506	Mar - Apr, 2020	85%	Social/professional role and identity
Fu et al.	Preprint	China	CS	HCWs	352	Mar 17-18,	76%	Social influences Beliefs about consequences
Wang et al.	Published	Hong Kong	CS	HCWs (nurses)	806	Feb 26 - Mar 31, 2020	40%	Social/professional role and identity Beliefs about consequences Reinforcement
Dror et al.	Published	Israel	CS	Gen pub (inc. HCWs)	829	Mar 26 - Apr 9, 2020	61-78%	Environmental context and resources Social/professional role and identity Beliefs about consequences

Fouogue et al.	Preprint	Cameroon	CS	HCWs	464	Apr 14-29,	49%	Social influences
Kwok et al.	Published	Hong Kong	CS	HCWs (nurses)	1,205	2020 Mar - Apr, 2020	63%	Beliefs about consequences Social/professional role and identity Beliefs about consequences Emotion
Nzaji et al.	Published	Democratic Republic of Congo	CS	HCWs	613	Mar 20 - Apr 30, 2020	28%	Social/professional role and identity Beliefs about consequences
Gagneux-Brunon et al.	Published	France	CS	HCWs	2,047	Mar 26 - Jul 2, 2020	77%	Social/professional role and identity Beliefs about consequences Reinforcement Emotion
Wang et al.	Published	China	CS	HCWs	3,726	Sep 15-20, 2020	79%	Social/professional role and identity Beliefs about consequences
Kose et al.	Published	Turkey	CS	HCWs	1,138	Sep 17-20, 2020	69%	Beliefs about consequences Reinforcement
Maltezou et al.	Published	Greece	CS	HCWs	1,521	Sep 1 - Oct 31, 2020	51%	Social/professional role and identity Reinforcement
Verger et al.*	Published	France and Belgium data only	CS	HCWs	1,623	Oct-Nov, 2020	46%	Social influences Beliefs about consequences Reinforcement
She et al.	Published	China	CS	HCWs (doctors and nurses)	2,064	Oct - Nov, 2020	75% doctors, 68% nurses	Social influences Beliefs about capabilities Emotion

Yu et al.	Published	China	CS	HCWs	2,254	Oct - Nov, 2020	75% nurses; 68% doctors	Environmental context and resources Social influences Beliefs about consequences Beliefs about capabilities
Di Gennaro et al.	Published	Italy	CS	HCWs	1,723	Oct 1 – Nov 1 2020	67%	Environmental context and resources Social/professional role and identity Reinforcement
Temsah et al.	Preprint	Saudi Arabia	CS	HCWs	2,007	Nov 1-12, 2020	9-24% (depending on type of COVID-19 vaccine)	Beliefs about consequences
Barry et al.	Preprint	Saudi Arabia	CS	HCWs	1,512	Nov 4-14, 2020	70%	Environmental context and resources Beliefs about consequences
Gönüllü et al.	Published	Turkey	CS	HCWs (paediatricians)	506	Nov 1-15, 2020	83%	Social/professional role and identity Beliefs about consequences
Di Giuseppe et al.	Published	Italy	CS	HCWs	811	Sep 14- Nov 30, 2020	81%	Environmental context and resources Social/professional role and identity Beliefs about consequences Reinforcement
Ledda et al.	Published	Italy	CS	HCWs	787	Sep - Dec, 2020	75%	Knowledge Beliefs about consequences

Castañeda- Vasquez et al.	Published	Mexico	CS	HCWs	43	Oct - Dec, 2020	94%	Social/professional role and identity
Kaplan et al.	Published	Turkey	CS	HCWs	1,574	Dec, 2020	85%	Social influences Beliefs about consequences Reinforcement Emotion
Patelarou et al.	Preprint	Multiple (Europe)	CS	HCWs (nursing students)	2,249	Dec, 2020	44%	Knowledge Social influences Beliefs about consequences Reinforcement Emotion
Karagiannidis et al.	Published	Germany	CS	HCWs (intensive care staff)	2,305	Dec 3-12, 2020	64%	Beliefs about consequences
Qattan et al.	Published	Saudi Arabia	CS	HCWs	673	Dec 8-14, 2020	51%	Social/professional role and identity Beliefs about consequences Reinforcement
Raftopoulos et al.	Published	Greece & Cyprus	CS	HCWs	2,238	Dec 1-15, 2020	48%	Social influences Social/professional role and identity
Al-Metwali et al.	Published	Iraq	CS	Gen pub (inc. HCWs)	1,680	Dec 1-19, 2020	62%	Environmental context and resources Social influences Social/professional role and identity Beliefs about consequences Reinforcement
Yigit et al.	Published	Turkey	CS	HCWs	343	Dec 15-20, 2020	55%	Social/professional role and identity Beliefs about consequences

Abuown et al.	Published	UK	CS	HCWs	514	Dec 1-21, 2020	59%	Beliefs about consequences Reinforcement
Chew et al.	Published	Multiple (Asia)	CS	HCWs	1,720	Dec 12-21, 2020	96%	Social/professional role and identity Beliefs about consequences
Bauernfeind et al.	Published	Germany	CS	HCWs	2,454	Dec 12-21, 2020	60%	Social/professional role and identity Reinforcement
Petravić et al.	Published	Slovenia	CS	Gen pub (inc. HCWs)	12,042 (2,068 were HCWs)	Dec 17-27 2020	59%	Social influences Social/professional role and identity Beliefs about consequences Reinforcement
Kukreti et al.	Published	Taiwan	CS	HCWs & patient samples	500 (HCWs); 238 (patients)	Sep 24 - Dec 31, 2020	23% (HCWs); 31% (patients)	Beliefs about consequences Reinforcement
Youssef et al.	Preprint	Lebanon	CS	HCWs	1,800	Dec 10-31, 2020	58%	Knowledge Environmental context and resources Social influences Beliefs about consequences
Fares et al.	Published	Egypt	CS	HCWs	385	Dec, 2020 - Jan, 2021	21%	Social influences Social/professional role and identity Reinforcement

Alvarado-Socarras et al.	Published	Colombia	CS	HCWs (physicians)	1,066	Jan, 2021	Free vaccine that was 60% effective: acceptance	Social/professional role and identity Reinforcement
							rate=77% Free vaccine that was 80% effective: acceptance	
Konopińska et al.	Published	Poland	CS	HCWs (ophthalmology residents)	126	Jan, 2021	rate=91% 71%	Beliefs about consequences
Hussein et al.	Preprint	Egypt	CS	HCWs	496	Dec 1, 2020 - Jan 1, 2021	46%	Beliefs about consequences Emotion
Maraqa et al.	Published	Palestine	CS	HCWs	1,159	Dec 25, 2020 - Jan 6, 2021	38%	Knowledge Social/professional role and identity Reinforcement
Rabi et al.	Published	Palestine	CS	HCWs (nurses)	639	Jan 1-7, 2021	40%	Social influences Beliefs about consequences Emotion
Szmyd et al.	Published	Poland	CS	HCWs	1,971	Dec 22, 2020 - Jan 8, 2021	83%	Beliefs about consequences Reinforcement Emotion
Yurttas et al.	Published	Turkey	CS	Gen pub, patient & HCWs samples	320	Jan 4-13, 2021	53%	Emotion

Nohl et al.	Published	Germany	CS	HCWs (emergency medical services personnel)	1,296	Dec 4, 2020 - Jan 15, 2021	57%	Social/professional role and identity
Saied et al.	Published	Egypt	CS	HCWs (medical students)	2,133	Jan 8-15, 2021	54%	Knowledge Social/professional role and identity Beliefs about consequences Reinforcement
Singhania et al.	Published	India	CS	HCWs	754	Jan 20-24, 2021	80%	Social influences Social/professional role and identity Beliefs about consequences
Huynh et al.	Published	Vietnam	CS	HCWs	410	Jan - Feb, 2021	76%	Environmental context and resources Beliefs about consequences
Rehman et al.	Preprint	Pakistan	CS	HCWs	436	Jan 31 - Feb 9, 2021	60%	Beliefs about consequences
Agyekum et al.	Preprint	Ghana	CS	HCWs	234	Jan 16 - Feb 15, 2021	39%	Social influences Social/professional role and identity Reinforcement
Paris et al.	Published	France	CS	HCWs	1,965	Feb 9-18, 2021	73%	Social/professional role and identity Beliefs about consequences Reinforcement
Woolf et al.	Preprint	UK	Coh	HCWs	11,584	Dec - Mar, 2021	77%	Knowledge Social influences Beliefs about consequences Reinforcement

Kanyike et al.	Published	Uganda	CS	HCW (medical	600	Mar 15-21,	37%	Beliefs about consequences
				students)		2021		Reinforcement

Notes: Greyed boxes in the data collection period column represent studies conducted from November 2020 onwards. Coh = cohort study; CS = cross-sectional survey; Gen pub = general public; HCW = healthcare worker; Qual = qualitative; TDF = Theoretical Domains Framework. * = Verger et al. collected data from Canada, France, and Belgium so was included in both North America and rest-of-the-world sections.