Supplementary file 1

A systematic literature review of adopting eHealth in pharmaceutical care during COVID-19 pandemic:

recommendations for strengthening pharmacy services

Literature search strategy

Table 1. Overall literature search strategy

Concept 1		Concept 2		Concept 3	Limits
pharm* **OR** pharmacy **OR** pharmacies **OR** Pharmacist*	**AND**	Tele* **OR** mHealth **OR** m-Health **OR** mobile Health **OR** electronic Health **OR** eHealth **OR** e-Health **OR** e-medicine **OR** eMedicine **OR** electronic medicine **OR** mobile medicine	**AND**	COVID-19 **OR** COVID 19 **OR** Coronavirus **OR** 2019-ncov **OR** SARS-CoV-2 **OR** Sars2 **OR** cov-19	**Inclusion criteria:** • Studies which reported the use of eHealth in any aspects of PC during the COVID-19 pandemic, published between December 2019 and March 2022, written in English or Chinese, and published in peer-reviewed journals were included. • The study types were limited to descriptive studies, prospective observational studies, retrospective cohort studies, retrospective chart reviews, cross-sectional surveys, and qualitative studies. **Exclusion criteria:** • Studies which reported about the use of eHealth to support the use of medicines during the COVID-19 pandemic by healthcare professionals other than pharmacists • opinion articles, conference abstracts, correspondence, letters, and editorials

Supplemental material

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Table 2. Search Strategies used for each database

Source	Search syntax	Hits (15 April 2022)
PubMed	(covid-19 OR covid19 OR coronavirus OR 2019-ncov OR sars-cov-2 OR sars2 OR cov-19) AND (tele* OR mobile health OR mhealth OR m-health OR electronic health OR ehealth OR e-health OR e-medicine OR eMedicine OR electronic medicine OR mobile medicine) AND (pharm*)	304
Scopus	(covid-19 OR covid19 OR coronavirus OR 2019-ncov OR sars-cov-2 OR sars2 OR cov-19) AND (tele* OR mobile health OR mhealth OR m-health OR electronic health OR ehealth OR e-health OR e-medicine OR eMedicine OR electronic medicine OR mobile medicine) AND (pharm*)	464
MEDILINE	(covid-19 OR covid19 OR coronavirus OR 2019-ncov OR sars-cov-2 OR sars2 OR cov-19) AND (tele* OR mobile health OR mhealth OR m-health OR electronic health OR ehealth OR e-health OR e-medicine OR eMedicine OR electronic medicine OR mobile medicine) AND (pharm*)	102
Web of Science	(covid-19 OR covid19 OR coronavirus OR 2019-ncov OR sars-cov-2 OR sars2 OR cov-19) AND (tele* OR mobile health OR mhealth OR m-health OR electronic health OR ehealth OR e-health OR e-medicine OR eMedicine OR electronic medicine OR mobile medicine) AND (pharm*)	298
Science Direct	(covid-19 OR coronavirus) AND (telemedicine OR telehealth OR"m-health" OR"e-health") AND (pharmacy OR pharmacist)	12
CNKI	（新冠*）AND（远程医疗*）AND（药师*）	1

Table 3: Search history in PubMed (15 April 2022)

Search No.	Search terms	Hits
Pharmacy practice		
#1	Pharm*[Title/Abstract]	898177
eHealth		
#2	Tele*[Title/Abstract] OR mHealth[Title/Abstract] OR m-Health[Title/Abstract] OR mobile Health[Title/Abstract] OR electronic Health[Title/Abstract] OR eHealth[Title/Abstract] OR e-Health[Title/Abstract] OR e-medicine[Title/Abstract] OR eMedicine[Title/Abstract] OR electronic medicine[Title/Abstract] OR mobile medicine[Title/Abstract]	220321
COVID-19		
#3	COVID-19[Title/Abstract] OR COVID 19[Title/Abstract] OR Coronavirus[Title/Abstract] OR 2019-ncov[Title/Abstract] OR SARS-CoV-2[Title/Abstract] OR Sars2[Title/Abstract] OR cov-19[Title/Abstract]	223313
Limits (English, Chinese; full text; 2020-2022)		
Total		
#4	#1 AND #2 AND #3 Filters: English, Chinese, 2020-2022	304

Table 4: Search history in Scopus (15 April 2022)

Search No.	Search terms	Hits
Pharmacy practice		
#1	TITLE-ABS-KEY ("pharm*")	1653497
eHealth		
#2	TITLE-ABS-KEY ("tele*" OR "mobile health" OR "mhealth" OR "m-health" OR "electronic health" OR "ehealth" OR "e-health" OR "e-medicine" OR eMedicine OR "electronic medicine" OR "mobile medicine")	1286160
COVID-19		
#3	TITLE-ABS-KEY ("covid-19" OR "covid19" OR "coronavirus" OR "2019-ncov" OR "sars-cov-2" OR "sars2" OR "cov-19")	304284
Limits (English, Chinese; 2020-2022)		
#4	LIMIT-TO (PUBYEAR , 2021) OR LIMIT-TO (PUBYEAR , 2020)) AND (LIMIT-TO (DOCTYPE , "ar") OR LIMIT-TO (DOCTYPE , "re")) AND (LIMIT-TO (LANGUAGE , "English") OR LIMIT-TO (LANGUAGE , "Chinese")	
Total		
#5	#1 AND #2 AND #3 AND #4	464

Table 5: Search history in MEDLINE (15 April 2022)

Search No.	Search terms	Hits
Pharmacy practice		
#1	TI "pharm*" OR AB "pharm*"	241703
eHealth		
#2	TI "tele*" OR AB "tele*" OR TI "mobile health" OR AB "mobile health" OR TI "mhealth" OR AB "mhealth" OR TI "m-health" OR AB "m-health" OR TI "electronic health" OR AB "electronic health" OR TI "ehealth" OR AB "ehealth" OR TI "e-health" OR AB "e-health" OR TI"e-medicine" OR AB"e-medicine" OR TI "eMedicine" OR AB "eMedicine" OR TI "electronic medicine" OR AB "electronic medicine" OR TI "mobile medicine" OR AB "mobile medicine"	71583
COVID-19		
#3	TI "covid-19" OR AB "covid-19" OR TI "covid19" OR AB "covid19" OR TI "coronavirus" OR AB "coronavirus" OR TI "2019-ncov" OR AB "2019-ncov" OR TI "sars-cov-2" OR AB "sars-cov-2" OR TI "sars2" OR AB "sars2" OR TI "cov-19" OR AB "cov-19"	78144
Limits (English, Chinese; 2020-2022)		
Total		
#4	#1 AND #2 AND #3	102

Table 6: Search history in Web of Science (15 April 2022)

Search No.	Search terms	Hits
Pharmacy practice		
#1	TS=("pharm*")	1004569
eHealth		
#2	TS=("tele*" or "mobile health" or "mhealth" or "m-health" or "electronic health" or "ehealth" or "e-health"or "e-medicine" or "eMedicine" or "electronic medicine" or "mobile medicine")	583377
COVID-19		
#3	TS=("covid-19" or "covid19" or "coronavirus" or "2019-ncov" or "sars-cov-2" or "sars2" or "cov-19")	256873
Limits (English, Chinese; 2020-2022)		
Total		
#4	#1 AND #2 AND #3	298

Table 7: Search history in Science Direct (15 April 2022)

Search No.	Search terms	Hits
Pharmacy practice		
#1	pharmacy OR pharmacist	25083
eHealth		
#2	telemedicine OR telehealth OR"m-health" OR"e-health"	6377
COVID-19		
#3	covid-19 OR coronavirus	45052
Limits (2020-2021)		
Total		
#4	#1 AND #2 AND #3	12

Search No.	Search terms	Hits

Table 8: Search history in CNKI (15 April 2022)

Search No.	Search terms	Hits
Pharmacy practice		
#1	药师*	36900
eHealth		
#2	远程*	257144
COVID-19		
#3	新冠*	34612
Limits (English, Chinese; 2020-2022)		
Total		
#4	#1 AND #2 AND #3	1