THE LANCET Global Health

Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

Supplement to: Taylor MM, Kobeissi L, Kim C, et al. Inclusion of pregnant women in COVID-19 treatment trials: a review and global call to action. *Lancet Glob Health* 2020; published online Dec 16. http://dx.doi.org/10.1016/S2214-109X(20)30484-8.

Supplemental Methods/Results 1:

Assessment of entry of clinical trials of COVID-19 treatment into more than one clinical trial registry

In order to assess the possible entry of clinical trials of treatment for COVID-19 in more than one clinical trial registry, we reviewed 100 clinical trial entries in the clinical trial registry with the largest number of registered clinical trials, www.clinicaltrials.gov. We conducted a review of 108 of the eligible non-US-based clinical trials of COVID-19 treatment registered in www.clinicaltrials.gov. We assumed that duplicate entries of COVID-19 treatment clinical trials could have occurred in www.clinicaltrials.gov for two reasons: (1) this clinical trial registry contained hundreds more registered COVID-19 clinical trials that the next closest trial registry by frequency (Supplemental Table 1);

(2) Non-US-based clinical trials are frequently registered in <u>www.clinicaltrials.gov</u> from countries from all regions, many of the these regions also have nationally-based clinical trial registries.

Using the Excel spreadsheets created for the 10 focused registry search, we performed a trial-by-trial title review of 108 clinical trials of COVID-19 treatment by selecting key treatment terms in the title or using titles phrases from www.clinicaltrials.gov. We then searched for these key terms in the country-based trial registries for China, UK, Brazil, India, and European countries. These trials were eligible and included in this study and were non-randomly selected from the spreadsheet containing all trials reviewed in www.clinicaltrials.gov. The frequencies of this review from <a href="www.clinicaltria

Table: Frequency of partial title match within two trial registries (n = 108)

Country of registration in www.clinicaltrials.gov	Name of trial registry cross-searched	Number of trials cross searched in national registry	Number of partial matches indicating possible duplicate registration
Brazil	ReBec	11	0
China	ChiCTR	13	0
European Countries			
Austria	EU-CTR	2	0
Belgium	EU-CTR	4	0
Denmark	EU-CTR	3	0
France	EU-CTR	18	3
Germany	EU-CTR	1	0

Greece	EU-CTR	4	0
Netherlands	EU-CTR	1	0
Italy	EU-CTR	11	0
Spain	EU-CTR	11	0
Sweden	EU-CTR	2	0
Switzerland	EU-CTR	1	0
India	CTRI	3	0
Iran	IRCT	13	2
UK	ISRCTN	7	0
Totals		108	5 (4.6%)

Supplemental Table 1: Registered trials with "COV	ID" in the title from 21 V	WHO and ICMJE-ad	ccepted clinical tria	als registries	
	Time 1 (April 2020)		Time 2 (July 2020)		
Clinical Trial Registry	Number of clinical trials with COVID in title	Number of registered clinical trials with COVID and pregnant or pregnancy in title	Number of clinical trials with COVID in title	Number of registered clinical trials with COVID and pregnant or pregnancy in title	
Australia and New Zealand's (ANZCTR)	15	1	91	5	
Brazilian Clinical Trials Registry (ReBec)	4	0	30	0	
Chinese Clinical Trial Registry (ChiCTR)	575	0	711	0	
Clinical Research Information Service (CRiS), Korea	0	0	4	0	
Clinical Trials Registry - India (CTRI)	7	0	298	0	
Cuban Public Registry of Clinical Trials (RPCEC)	0	0	36	0	
EU Clinical Trials Register (EU-CTR)	53	0	273	1	
German Clinical Trials Register (DRKS)	Not accessible	N/A	465	0	
Iranian Registry of Clinical Trials (IRCT)	72	0	281	0	

Japan Primary Registries Network	0	0	0	0
	0	0	432	2
The Netherlands Trial Register	1.5	1	432	2
	15	1	19	0
Pan African Clinical Trial Registry (PACTR)	1		19	U
	1	0	0	0
Peruvian Registry of Clinical Trials			0	0
	0	0	_	
Philippine Health Research Registry			6	1
Timppine Treatm research registry	0	0		
Sri Lanka Clinical Trials Registry (SLCTR)			1	0
Sit Lanka Chinear Thais Registry (SECTR)	0	0		
South African National Clinical Trials Degister			0	0
South African National Clinical Trials Register	0	0		
G : FORTH B 1 B : (23	0
Swiss FOPH Human Research Projects	4	0		
			0	0
Tanzania Clinical Trial Registry	0	0		
	Ů		20	0
Thai Clinical Trials Registry	0	0		, and the second
	0	0	86	3
The United Kingdoms' ISRCTN registry	9	1		3
	9	1	2713	25
The United States' ClinicalTrials.gov	2		2/13	23
<u> </u>	366	3	F 402	40
Total	1121	6	5,492	40

Supplemental Table 2a: Reg	istered trials evaluating coro	navirus in pregnant women, Aj	pril 7–10, 2020	_
Trial Name	Country	Design	Trial registry	Trial registry link
Prospective registry of maternal, perinatal and neonatal outcomes from pregnancies infected with SARS-COV2 (COVID-19)	Australia	Prospective Observational	ANZCTR	http://www.anzctr.org.au/Tri al/Registration/TrialReview.a spx?id=379572&isReview=tr ue
COVID-19 PRIORITY (Pregnancy CoRonavIrus Outcomes RegIsTrY) (PRIORITY)	USA	Observational Registry	clinicaltrials.gov	https://www.clinicaltrials.gov /ct2/show/NCT04323839?ter m=pregnancy&cond=covid& draw=2&rank=1
Clinical Characteristics of Coronavirus Disease 2019 (COVID-19) in Pregnancy	Italy	Observational Registry	clinicaltrials.gov	https://www.clinicaltrials.gov/ct2/show/NCT04319016?term=pregnancy&cond=covid&draw=2&rank=3
Clinical Characteristics of Coronavirus Disease 2019 (COVID-19) in Pregnancy: The Italian Registry on Coronavirus in Pregnancy.	Italy	Observational Registry	clinicaltrials.gov	https://www.clinicaltrials.gov /ct2/show/NCT04315870?ter m=pregnancy&cond=covid& draw=2&rank=4
UKOSS: Pandemic COVID- 19 in pregnancy, COVID-19 (SARS-CoV-2 infection) in pregnant women Pregnancy and Childbirth	UK	Observational cohort study	ISRCTN40092247	http://www.isrctn.com/ISRC TN40092247
COVID-19 during pregnancy: a prospective observational cohort	Netherlands	Observational cohort study	Trial NL8485	https://www.trialregister.nl/tr ial/8485

	Supplemen	tary Table 2b: Registered trial as	s evaluating COVID-19 of July 10–15, 2020	9 in pregnant women
Trial Name	Country	Design	Trial registry	Trial registry link
Prospective registry of maternal, perinatal and neonatal outcomes from pregnancies infected with SARS-COV2 (COVID-19)	Australia	Prospective Observational	ANZCTR	http://www.anzctr.org.au/Tri al/Registration/TrialReview.a spx?id=379572&isReview=tr ue
Has the threat of SARS COVID-19 increased influenza vaccination rates in pregnant women?	Australia	Cross-sectional study	ANZCTR	https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?id=379826&isReview=true
Simulation time taken amongst consultant anesthetists to perform spinal anesthesia or general anesthesia for COVID-19 patients requiring an emergency category 1 caesarean delivery	Australia	Randomized Controlled trial	ANZCTR	https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?id=379818&isReview=true
Neonatal CoVID-19 Study to evaluate the population health impacts of COVID-19 in mothers and their newborn infants cared for in tertiary and non-tertiary hospitals in Australia.	Australia	Prospective Observational study	ANZCTR	https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?id=379709&isReview=true
Risk Factors for Anxiety and Depression Among Pregnant Women During the COVID- 19 Pandemic	Australia	Prospective Observational study	ANZCTR	https://www.anzctr.org.au/Tri al/Registration/TrialReview.a spx?id=18862&isClinicalTri al=True

https://www.clinicaltrialsregister.eu/ctr-search/trial/2020-001587-29/ES https://www.clinicaltrials.gov/ct2/show/NCT04323839?term=pregnancy&cond=covid&draw=2&rank=1
https://www.clinicaltrials.gov /ct2/show/NCT04323839?ter m=pregnancy&cond=covid&
/ct2/show/NCT04323839?ter m=pregnancy&cond=covid&
https://clinicaltrials.gov/ct2/s how/NCT04366986?cond=C OVID+19+and+pregnancy&
cntry=US&draw=2&rank=2
https://clinicaltrials.gov/ct2/s how/NCT04418557?cond=C OVID+19+and+pregnancy&
cntry=US&draw=2&rank=3
https://clinicaltrials.gov/ct2/s how/NCT04388605?cond=C OVID+19+and+pregnancy& cntry=US&draw=2&rank=4
https://clinicaltrials.gov/ct2/s how/NCT04385238?cond=C OVID+19+and+pregnancy&
cntry=US&draw=2&rank=5
https://clinicaltrials.gov/ct2/s how/NCT04431869?cond=C OVID+19+and+pregnancy&
7

Risks of COVID19 in the Pregnant Population				https://clinicaltrials.gov/ct2/s
				<u>how/NCT04379284?cond=C</u>
		Observational Prospective		OVID+19+and+pregnancy&
	USA	Study	clinicaltrials.gov	cntry=US&draw=2&rank=7
Risk Factors for Anxiety and Depression				1 // 1: : 1: 1 / /2/
Among Pregnant Women During the COVID-				https://clinicaltrials.gov/ct2/s
19 Pandemic (MindCOVID)				how/NCT04377412?cond=C
19 1 41140 (1711140 0 + 12)		Observational Prospective		OVID+19+and+pregnancy&
	USA	Study	clinicaltrials.gov	cntry=US&draw=2&rank=8
Descriptive and Evaluation Study of the Use of				https://www.clinicaltrials.gov
Pulmonary Ultrasound in the Initial				/ct2/show/NCT04432805?co
Management of Pregnant Women in the	USA			nd=COVID-
Context of COVID-19	(Marseille,			19+and+pregnant+women&d
	France)	Cohort prospective study	clinicaltrials.gov	raw=2&rank=1
	Ź			https://www.clinicaltrials.gov
Effect of Heatman law arise in COMD				/ct2/show/NCT04354441?co
Effect of Hydroxychloroquine in COVID				nd=COVID-
		Randomized Controlled		19+and+pregnant+women&d
	USA	Trial	clinicaltrials.gov	raw=2&rank=2
				https://www.clinicaltrials.gov
Postpartum Sexual Function in Pregnant				/ct2/show/NCT04389489?co
Women With COVID-19	USA			nd=COVID-
	(Istanbul,	Observational Prospective		19+and+pregnant+women&d
	Turkey)	Study	clinicaltrials.gov	raw=2&rank=3
	,			https://www.clinicaltrials.gov
Obstetric and Perinatal Outcomes	USA			/ct2/show/NCT04369859?co
of Women With COVID-19	(Marseille,			nd=COVID-
	Paca,	Prospective Observational		19+and+pregnant+women&d
	France)	Study	clinicaltrials.gov	raw=2&rank=4
Investigation of the Relationship Between New	,			https://www.clinicaltrials.gov
Coronary Virus Disease (COVID-19) and				/ct2/show/NCT04384887?co
Anxiety and Depressive Symptoms in Pregnant	USA			nd=COVID-
Women"				19+and+pregnant+women&d
	(Istanbul,	Cosa Control Study	alinicaltuiala gay	
	Turkey)	Case- Control Study	<mark>clinicaltrials.gov</mark>	<u>raw=2&rank=5</u>

	1			
Physical Activity Level, Stress Level, Sleep Quality in Pregnant Women During Covid- 19 Quarantine	USA (Istanbul, Turkey)	Prospective Observational Study	clinicaltrials.gov	https://www.clinicaltrials.gov /ct2/show/NCT04336787?co nd=COVID- 19+and+pregnant+women&d raw=2&rank=6
	J /		2	https://www.clinicaltrials.gov
Characteristics of COVID-19 Infection				/ct2/show/NCT04398264?co
Among PREGnant Women				nd=COVID-
Among Presentit Women				19+and+pregnant+women&d
	TICA	Dung and actives Calmant Strade.	alini aaltai ala saas	raw=2&rank=7
	USA	Prospective Cohort Study	clinicaltrials.gov	
Evaluation of the Relationship Between Zinc				https://www.clinicaltrials.gov
Vitamin D and b12 Levels in the Covid-				/ct2/show/NCT04407572?co
19 Positive Pregnant Women	USA			nd=COVID-
	(Istanbul,			19+and+pregnant+women&d
	Turkey)	Case-Control Study	clinicaltrials.gov	<u>raw=2&rank=8</u>
				https://www.clinicaltrials.gov
Prevalence and Impact of COVID-19 Infection				/ct2/show/NCT04355234?co
in Pregnant Women, Foetuses and New-borns				nd=COVID-
				19+and+pregnant+women&d
	USA	Prospective Cohort Study	clinicaltrials.gov	raw=2&rank=9
				https://www.clinicaltrials.gov
Knowledge About Covid-19 Infection				/ct2/show/NCT04423692?co
in Pregnant Women				nd=COVID-
	USA (Giza,			19+and+pregnant+women&d
	Egypt)	Cross-sectional study	clinicaltrials.gov	raw=3&rank=11
D 11	<u> </u>	Cross sectional study	emineurinisigo.	https://www.clinicaltrials.gov
D-dimer Levels in Pregnant With COVID-19				/ct2/show/NCT04389554?co
	USA			nd=COVID-
	(Istanbul,			19+and+pregnant+women&d
		Case-Control Study	clinicaltrials.gov	raw=3&rank=12
Hadrowski and anima A - 11 1 - COVID	Turkey)	Case-Control Study	chinealtriais.gov	
Hydroxychloroquine Azithromycin COVID-				https://www.clinicaltrials.gov
19 Pregnancy Trial (HASCOPT)	USA			/ct2/show/NCT04365231?co
	(Marseille,			nd=COVID-
	France)	Randomized Controlled		19+and+pregnant+women&d
		Trial	clinicaltrials.gov	raw=3&rank=13
	•	•	· · · · · · · · · · · · · · · · · · ·	·

Prognosis in Pregnant With COVID-19				https://www.clinicaltrials.gov
Trognosis in Trognant (Vini e e Viz 1)				/ct2/show/NCT04409249?co
	USA			nd=COVID-
	(Istanbul,	Observational Study		19+and+pregnant+women&d
	Turkey)	(Retrospective)	clinicaltrials.gov	raw=2&rank=14
Postoperative Recovery Index, Patient				
Expectations and Satisfaction With Prenatal				
Care Instrument in Pregnant Patients				https://www.clinicaltrials.gov
With COVID-19				/ct2/show/NCT04389515?co
	USA			nd=COVID-
	(Istanbul,	Prospective Study		19+and+pregnant+women&d
	Turkey)	Observational	clinicaltrials.gov	raw=2&rank=15
Clinical and Immunologic Impact of				https://www.clinicaltrials.gov
Perinatal SARS-CoV-2 (COVID-19) Infection				/ct2/show/NCT04362956?co
				nd=COVID-
				19+and+pregnant+women&d
	USA	Case-control study	clinicaltrials.gov	<u>raw=2&rank=16</u>
Assessment of Obstetric, Fetal and Neonatal				https://www.clinicaltrials.gov
Risks and Vertical SARS-CoV-2 Transmission				/ct2/show/NCT04360811?co
During COVID-19 Pandemic (COroFet)	USA			<u>nd=COVID-</u>
	(Toulouse,	Clinical Trial (Non		19+and+pregnant+women&d
	France)	randomized)	clinicaltrials.gov	raw=2&rank=17
Northeast COVID-19 and Pregnancy Study				https://www.clinicaltrials.gov
Group (NCOVIP)				/ct2/show/NCT04462367?co
	USA			nd=Corona+virus+2+and+pr
	(Recife,			egnant+women&draw=2&ra
	Brazil)	Prospective Cohort study	clinicaltrials.gov	<u>nk=2</u>
				https://www.clinicaltrials.gov
				/ct2/show/NCT04319016?ter
Clinical Characteristics of Coronavirus Disease				m=pregnancy&cond=covid&
2019 (COVID-19) in Pregnancy	Italy	Observational Registry	clinicaltrials.gov	draw=2&rank=3

Clinical Characteristics of Coronavirus Disease 2019 (COVID-19) in Pregnancy: The Italian Registry on Coronavirus in Pregnancy.	Italy	Observational Registry	clinicaltrials.gov	https://www.clinicaltrials.gov/ct2/show/NCT04315870?term=pregnancy&cond=covid&draw=2&rank=4
Risk Factors for Anxiety and Depression Among Pregnant Women During the COVID- 19 Pandemic	Italy	Prospective Cross-sectional study	clinicaltrials.gov	https://clinicaltrials.gov/ct2/s how/NCT04377412?cond=C OVID+19+and+pregnancy& cntry=IT&draw=2&rank=3
A Prospective International Lung UltraSound Analysis (ILUSA) Study in Tertiary Maternity Wards During the SARS-CoV-2 Pandemic	Italy	Prospective Cohort Study	clinicaltrials.gov	https://www.anzctr.org.au/Tri al/Registration/TrialReview.a spx?id=18598&isClinicalTri al=True
UKOSS: Pandemic COVID-19 in pregnancy, COVID-19 (SARS-CoV-2 infection) in pregnant women Pregnancy and Childbirth	UK	Observational cohort study	ISRCTN40092247	http://www.isrctn.com/ISRC TN40092247

ISRCTN93266696: Studying the immune response and long-term morbidity of COVID-19 infection in pregnancy				1 //1 : //0.1106/RGDG
	UK	Prospective Study	ISRCTN93266696	https://doi.org/10.1186/ISRC TN93266696
ISRCTN68026880 : A global registry of women affected by COVID-19 in pregnancy and their babies, to guide treatment and prevention				http://www.isrctn.com/ISRC TN68026880?q=COVID- 19%20and%20pregnant%20 women&filters=&sort=&offs et=7&totalResults=10&page =1&pageSize=10&searchTy
	UK	Retrospective Study	ISRCTN68026880	pe=basic-search
COVID-19 during pregnancy: a prospective observational cohort	Netherlands	Observational cohort study	Trial NL8485	https://www.trialregister.nl/tr ial/8485
Lifestyle of pregnant women during COVID-19 pandemic	Netherlands	Observational Study	Trial NL8668	https://www.trialregister.nl/tr ial/8668
Knowledge, practices, and risk and susceptibility perceptions on exposure to COVID-19: A qualitative triangulation study on pregnant women, their spouses, and non-pregnant reproductive-aged women with healthcare workers in Metro Manila	Philippines	Mixed-methods descriptive study	PHRR200604-002695	http://www.registry.healthres earch.ph/index.php/registry? view=research&layout=detail s&cid=2695

Supplemental Table 3: Exclusion of pregnant women from clinical trials of COVID-19 treatment using vitamins A, B-complex, C, D, and E.		
Trial Registry	Vitamin Trials Total	Vitamin Trials Excluding Pregnant women
The United Kingdoms' ISRCTN registry	0	0
Brazilian Clinical Trials Registry (ReBec)	0	0
The United States' ClinicalTrials. gov	15	12
Clinical Trials Registry - India (CTRI)	0	0
Australia and New Zealand's (ANZCTR)	1	0
Chinese Clinical Trial Registry (ChiCTR)	3	3
EU Clinical Trials Register (EU-CTR)	0	0
Iranian Registry of Clinical Trials (IRCT)	16	12
The Netherlands Trial Register	0	0
Swiss FOPH Human Research Projects	0	0
Totals	35	27