				I	1	1	1		Number		I		l	
							Туре		of	Number	Number	Number of		
							of	Bias	mothers	of case	of babies	case		
Title	Year	First author	ID	Country	Start date	End date	study	assessment	total	mothers	total	babies	Population	Exposure
Vertical transmission and kidney damage in newborns whose mothers had coronavirus disease 2019 during pregnancy	2020	Не	DOI: 10.1016/j.ijantimicag.2020.106260	China	01/01/2020	01/04/2020	Cohort	4	22	22	22	22	All neonates born to mothers with COVID-19 at one centre	COVID-19 diagnosed on clinical criteria
Increased C-sections and														
preterm births in SARS-CoV-													Infected	
2 infection during pregnancy	2021	Carrasco	WHO: covidwho-1250003	Spain	15/03/2020	31/07/2020	Cohort	5	105	105	107	107	pregnant women	
Microbiological features and follow-up of neonates born to mothers with covid-19	2021	Vazquez	WHO: covidwho-1250829	Spain	15/03/2020	30/11/2020	Cohort	5	115	115	282	282	All exposed neonates, 130 in first wave and 152 in second wave	Laboratory- confirmed COVID-19 infection, unclear of method of confirmation
COVID-19 infection in high- risk south african pregnancies with and without HIV	2021	De Waard	WHO: covidwho-1250086	South Africa	01/05/2020	31/07/2020	Cohort	5	100	100	91	91	All pregnant women	Laboratory- confirmed COVID-19 infection, unclear of method of confirmation
The impact of the novel coronavirus infection COVID-19 on the mother-placenta-fetus system	2021	Nizyaeva	DOI: 10.24075/brsmu.2021.020	Russia	01/03/2020	01/05/2020	Cohort	5	66	66	42	42	All pregnant women. Multiple pregnancies excluded.	PCR-confirmed COVID-19 and control group with negative PCR test and no signs of COVID- 19
Clinical outcomes of maternal and neonate with COVID-19 infection - Multicenter study in Saudi Arabia  Characteristics, clinical and	2021	Al-Matary	DOI: 10.1016/j.jiph.2021.03.013	Saudi Arabia	01/03/2020	01/11/2020	Cohort	5	288	288	200	200	All pregnant women	PCR-confirmed COVID-19
laboratory data and outcomes of pregnant women with confirmed SARS-CoV-2 infection admitted to Al-Zahra tertiary referral maternity center in Iran: a case series of 24					40 (00 (0000	45/04/000							All pregnant	Laboratory- confirmed COVID-19 infection, unclear of method of
patients	2021	Vaezi	DOI: 10.1186/s12884-021-03764-y	Iran	10/03/2020	15/04/2020	Cohort	5	24	24	11	11	women All neonates	confirmation
Outcomes of newborns to mothers with COVID-19	2021	Ghema	DOI: 10.1016/j.idnow.2021.03.003	Morocco	01/01/2020	01/12/2020	Cohort	6	30	30	30	30	admitted to NICU whose mothers had COVID-19	
SARS-COV-2 prevalence and maternal-perinatal outcomes among pregnant women admitted for delivery: Experience from COVID-19-dedicated maternity hospital in Jammu, Jammu and Kashmir (India)	2021	Gupta	DOI: 10.1002/jmv.27074	India	01/09/2020	30/11/2020	Case- control	6	3165	108	3165	108	All pregnant women delivering during study period	PCR-confirmed COVID-19
Prevalence, clinical features, and outcomes of SARS-COV- 2 infection in pregnant women with or without mild/moderate symptoms: Results from universal screening in a tertiary care center in Mexico City, Mexico	2021	Cardona-Perez	DOI: 10.1371/journal.pone.0249584	Mexico	22/04/2020	25/05/2020	Case- control	7	250	70	219	39	All pregnant women who were asymptomatic or with mild/moderate COVID-19 symptoms	PCR-confirmed COVID-19

Course of Covid 19 and fetomaternal outcome at a													All pregnant	PCR-confirmed
tertiary care hospital	2021	Furrukh	ISSN: 2957-899X	Pakistan	08/04/2020	07/07/2020	Cohort	5	47	47	24	24	women	COVID-19
Clinical and obstetric characteristics of pregnant women with Covid-19: A case series study on 26 patients	2021	Abedzadeh- Kalahroudi	DOI: 10.1016/j.tjog.2021.03.012	Iran	01/03/2020	01/05/2020	Cohort	5	56	56	55	55	All pregnant women	PCR or radiological diagnosis of COVID-19
Fetal and perinatal outcome following first and second trimester covid-19 infection: Evidence from a prospective cohort study	2021	Rosen	DOI: 10.3390/jcm10102152	Israel	01/03/2020	01/02/2021	Cohort	6	55	55	29	29	All pregnant women	PCR-confirmed COVID-19 before 26 weeks gestation
Hearing screening outcomes in neonates of SARS-CoV-2 positive pregnant women	2021	Alan	DOI: 10.1016/j.ijporl.2021.110754	Turkey	01/04/2020	01/12/2020	Cohort	7	141	141	118	118	All neonates born to mothers with COVID-19, multiple gestation and risk factors for hearing loss excluded	PCR-confirmed
Perinatal outcomes of pregnancies resulting from assisted reproduction technology in SARS-CoV-2- infected women: a													All	
prospective observational study	2021	Calvo	DOI: 10.1016/j.fertnstert.2021.04.005	Spain	26/02/2020	05/11/2020	Cohort	6	1347	1347	1347	1347	All pregnant women	PCR-confirmed COVID-19
The incidence, characteristics and outcomes of pregnant women hospitalized with symptomatic and asymptomatic SARS-CoV-2 infection in the UK from March to September 2020: A national cohort study														
using the UK Obstetric Surveillance System (UKOSS)	2021	Vousden	DOI: 10.1371/journal.pone.0251123	UK	01/03/2020	31/08/2020	Cohort	7	1148	1148	1019	1019	All hospitalised pregnant women	PCR-confirmed COVID-19
Neonatal SARS-CoV-2 infections in breastfeeding mothers	2021	Shlomai	DOI: 10.1542/peds.2020-010918	Israel	01/03/2020	01/05/2020	Cohort	5	53	53	55	55	All pregnant women delivering during study period	PCR-confirmed COVID-19
COVID-19 in pregnancy- characteristics and outcomes of pregnant women admitted to hospital because of SARS-CoV-2 infection in the Nordic countries	2021	Engjom	DOI: 10.1111/aogs.14160	Denmark, Finland, Iceland, Sweden and Norway	01/03/2020	30/06/2020	Cohort	5	56	56	51	51	All pregnant women admitted to hospital for at least 24h	PCR-confirmed SARS-CoV-2 in 14 days before admission
Consequences of SARS-CoV- 2 disease on maternal, perinatal and neonatal outcomes: A retrospective observational cohort study	2021	Abdulghani	DOI: 10.31083/j.ceog.2021.02.2361	Saudi Arabia	01/03/2020	31/05/2020	Cohort	6	62	62	63	63	All pregnant women	PCR-confirmed COVID-19
Pre and post-natal epidemiological and clinical features of neonates born from mothers infected with COVID-19 and 14-day follow-up post discharge in Lima, Peru	2021	Lizama	DOI: 10.20453/RMH.V32I1.3942	Peru	15/03/2020	30/06/2020	Cohort	6	206	206	206	206	All pregnant women	Laboratory- confirmed COVID-19 infection, unclear of method of confirmation
Childbirth care among sars- cov-2 positive women in Italy	2021	Donati	DOI: 10.3390/ijerph18084244	Italy	25/02/2020	31/07/2020	Cohort	5	525	525	538	538	All pregnant women; until end of March 2020 only symptomatic and contacts screened, then all	PCR-confirmed COVID-19

Association of Maternal SARS-CoV-2 Infection in Pregnancy with Neonatal Outcomes	2021	Norman	DOI: 10.1001/jama.2021.5775	Sweden	11/03/2020	31/01/2021	Case- control	8	84719	2286	88159	2323	All live-born infants, malformations excluded except PDA	PCR-confirmed COVID-19; from June 2020 all women tested vs just symptomatic women
Maternal and Neonatal Morbidity and Mortality among Pregnant Women with and without COVID-19 Infection: The INTERCOVID Multinational Cohort Study	2021	Villar	DOI: 10.1001/jamapediatrics.2021.1050	International	02/03/2020	02/10/2020	Case- control	8	2130	706	2130	706	All pregnant women	PCR, radiological or clinical criteria based diganosis of COVID-19
Retrospective Analysis of Clinical Characteristics and Neonatal Outcomes of Pregnant Women with SARS-COV-2 Infection	2021	Chen	DOI: 10.1007/s11596-021-2347-9	China	01/02/2020	30/03/2020	Cohort	5	8	8	9	9	All pregnant women	COVID-19 diagnosed on clinical criteria
Mother-Infant Dyads with COVID-19 at an Urban, Safety-Net Hospital: Clinical Manifestations and Birth Outcomes	2021	Sabharwal	DOI: 10.1055/s-0041-1726429	USA	31/03/2020	06/08/2020	Cohort	5	75	75	75	75	All symptomatic pregnant women delivering during study period	PCR-confirmed COVID-19
Effect of SARS-CoV-2 Infection on Pregnancy Outcomes in an Inner-City Black Patient Population Short-term developmental	2021	Liu	DOI: 10.1007/s10900-021-00988-z	USA	10/04/2020	10/06/2020	Case- control	6	335	56	335	56	All women who delivered	PCR-confirmed COVID-19
outcomes in neonates born to mothers with COVID-19 from Wuhan, China The Society for Obstetric	2021	Zeng	DOI: 10.1007/s12519-021-00426-z	China	01/02/2020	15/05/2020	Cohort	6	68	68	72	72	All neonates born to women with COVID-19	COVID-19 diagnosed on clinical criteria
Anesthesia and Perinatology (SOAP) COVID-19 Registry: An analysis of outcomes among pregnant women delivering during the initial SARS-CoV-2 outbreak in the United States	2021	Katz	DOI: 10.1213/ANE.0000000000005592	USA	19/03/2020	31/05/2020	Case- control	7	1454	490	1454	490		PCR-confirmed COVID-19 within 14 days of delivery date
Experience of covid-19 infections in neonates in tertiary care centre in North Karnataka, India: A prospective cohort study	2021	Charki	ISSN: 0971-9032	India	01/05/2020	01/10/2020	Cohort	5	26	26	28	28	All neonates born to women with COVID-19	PCR-confirmed COVID-19
Outcomes of Neonates Born to Mothers with Severe Acute Respiratory Syndrome Coronavirus 2 Infection at a Large Medical Center in New York City	2021	Dumitriu	DOI: 10.1001/jamapediatrics.2020.4298	USA	13/03/2020	24/04/2020	Cohort	6	100	100	101	101	All neonates born to women with COVID-19	PCR-confirmed COVID-19
Management of labour, puerperium, and lactation in SARS-CoV-2 positive women. Multicentric study in the Valencian Community.	2021	Vila-Candel	DOI: 10.1016/j.enfcli.2021.01.006	Spain	01/03/2020	30/06/2020	Cohort	5	13	13	13	13	All pregnant women who delivered	PCR-confirmed COVID-19
Impact of evolving practices on SARS-CoV-2 positive mothers and their newborns in the largest public healthcare system in America.	2021	Malhotra	DOI: 10.1038/s41372-021-01023-8	USA	01/03/2020	09/05/2020	Cohort	7	286	286	290	290	All pregnant women who delivered	PCR-confirmed COVID-19
Characteristics and Pregnancy Outcomes of Asymptomatic and Symptomatic Women with COVID-19: Lessons from Hospitals in Wuhan.	2021	Luo	DOI: 10.3855/jidc.14010	China	30/01/2020	15/04/2020	Cohort	5	41	41	42	42	All pregnant patients admitted	PCR or radiological diagnosis of COVID-19
Association of Maternal Perinatal SARS-CoV-2 Infection With Neonatal	2021	Angelidou	DOI: 10.1001/jamanetworkopen.2021.7523	USA	01/03/2020	31/07/2020	Cohort	6	250	250	255	255	All mother-infant dyads whose delivery and	PCR-confirmed COVID-19

Outcomes During the COVID-19 Pandemic in Massachusetts.													discharge fell within the study period	
SARS-COV-2 infection in pregnant women and newborns in a Spanish cohort (GESNEO-COVID) during the first wave.	2021	Carrasco	DOI: 10.1186/s12884-021-03784-8	Spain	15/03/2020	31/07/2020	Cohort	6	105	105	107	107	All pregnant women delivering during study period	PCR, serological or clinical criteria based diagnosis of COVID-19
Pregnancy and perinatal outcomes of women with coronavirus disease (COVID- 19) pneumonia: a														PCR-confirmed
preliminary analysis. Characteristics and	2020	Liu	DOI: 10.2214/AJR.20.23072	China	20/01/2020	10/02/2020	Cohort	6	11	11	11	11		COVID-19
outcomes of pregnant women admitted to hospital with confirmed SARS-CoV-2 infection in UK: national population based cohort study.	2020	Knight	DOI: 10.1136/bmj.m2107	U.K	01/03/2020	14/04/2020	Cohort	7	427	427	259	259		PCR-confirmed COVID-19
Clinical features and outcomes of pregnant women suspected of							Case-						All pregnant women delivering during	PCR-confirmed
coronavirus disease 2019. Clinical features and obstetric and neonatal outcomes of pregnant patients with COVID-19 in Wuhan, China: a	2020	Yang	DOI: 10.1016/j.jinf.2020.04.003	China	20/01/2020	05/03/2020	control	6	55	13	57	13	study period	COVID-19
retrospective, single-centre, descriptive study.	2020	Yu	DOI: 10.1016/ S1473-3099(20)30176-6	China	01/01/2020	08/02/2020	Cohort	6	7	7	7	7		PCR-confirmed COVID-19
Covid-19 in pregnant women: General data from a French National Survey.	2020	Cohen	DOI: 10.1186/s12958-020-00605	France	Not stated		Cohort	4	88	88	14	14		PCR, serological or radiological diagnosis of COVID-19
Association Between Mode of Delivery Among Pregnant Women With COVID-19 and Maternal and Neonatal														PCR-confirmed
Outcomes in Spain. Vaginal delivery in SARS-	2020	Martinez-Perez	DOI: 10.1001/jama.2020.10125	Spain	12/03/2020	06/04/2020	Cohort	7	82	82	78	78		COVID-19
CoV-2-infected pregnant women in Northern Italy: a retrospective analysis.	2020	Ferrazzi	DOI: 10.1111/1471-0528.16278	Italy	01/03/2020	20/03/2020	Cohort	5	42	42	42	42		PCR-confirmed COVID-19
Characteristics and Outcomes of 241 Births to Women With Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection at Five New York City Medical Centers.	2020	Khoury	DOI: 10.1097/AOG.00000000000004025.	USA	12/03/2020	12/04/2020	Cohort	6	241	241	245	245		PCR-confirmed COVID-19
Evaluating Clinical Course and Risk Factors of Infection and Demographic Characteristics of Pregnant Women with COVID-19 in Hamadan Province, West of	2020	Knodry	501.10.1037/100.0000000000000000000000000000000000	USA	12/03/2020	12/04/2020	CONOTE	0	241	241	243	243		COVID-19 diagnosed on
Iran. Birth and Infant Outcomes	2020	Sattari	DOI: 10.34172/jrhs.2020.22	Iran	06/01/2020	21/06/2020	Cohort	6	50	50	25	25		clinical criteria
Following Laboratory- Confirmed SARS-CoV-2 Infection in Pregnancy	2020	Woodworth	DOI: 10.15585/mmwr.mm6944e2.	USA	29/03/2020	14/10/2020	Cohort	5	5252	5252	4495	4495		?
Pregnant women with COVID-19 and risk of adverse birth outcomes and maternal-fetal vertical transmission: a population-based cohort study in														PCR or clinical criteria based diagnosis of
Wuhan, China.	2020	Yang	DOI: 10.1186/s12916-020-01798-1	China	13/01/2020	18/03/2020	Cohort	6	65	65	58	58	]	COVID-19

Maternal and neonatal	İ	Ì	l	1	ı	İ	I	]	ĺ		l i		İ	İ
outcomes in COVID-19														
infected pregnancies: a														PCR-confirmed
prospective cohort study.	2020	Pirjani	DOI: 10.1093/jtm/taaa158	Iran	01/03/2020	01/09/2020	Cohort	8	43	43	43	43		COVID-19
Neonatal outcome in 29														PCR or
pregnant women with														radiological
COVID-19: A retrospective study in Wuhan, China.	2020	Wu	DOI: 10.1371/journal.pmed.1003195	China	30/01/2020	10/03/2020	Cohort	5	29	29	29	29		diagnosis of COVID-19
Pregnancy and postpartum	2020	vvu	DOI: 10.1371/Journal:pineu.1003193	Cillia	30/01/2020	10/03/2020	COHOIT	3	23	29	29	29		COVID-19
outcomes in a universally														
tested population for SARS-														
CoV-2 in New York City: a														PCR-confirmed
prospective cohort study.	2020	Prabhu	DOI: 10.1111/1471-0528.16403	USA	24/03/2020	20/04/2020	Cohort	8	70	70	69	69		COVID-19
SARS-CoV-2 infection among														
hospitalized pregnant														
women: reasons for														
admission and pregnancy characteristics - eight U.S.														
health care centers, March													All hospitalised	PCR-confirmed
1-May 30, 2020.	2020	Panagiotakopoulos	DOI: 10.15585/mmwr.mm6938e2.	USA	01/03/2020	30/05/2020	Cohort	5	105	105	93	93		COVID-19
Characteristics and maternal	2020	- unagiotakopoulos	5011 10115305/1111111111110550CE	03/1	01/03/2020	30,03,2020	COHOL		103	103	33		pregnant women	00115 15
and birth outcomes of														
hospitalized pregnant														
women with laboratory-														
confirmed COVID-19 -														
COVID-NET, 13 states,	2020	Deleberr	DOI: 40 45505 /	1164	04 /02 /2020	22/00/2020	Colores		450	458	440	440		
March 1-August 22, 2020. Safety of vaginal delivery in	2020	Delahoy	DOI: 10.15585/mmwr.mm6938e1.	USA	01/03/2020	22/08/2020	Cohort	6	458	458	448	448		
women infected with														PCR-confirmed
COVID-19.	2021	Lopian	DOI: 10.1016/j.pedneo.2020.10.010.	Israel	23/03/2020	08/05/2020	Cohort	5	21	21	21	21		COVID-19
Pregnancy with COVID-19		P	77,		-,,	, , , , , , , , , , , , , , , , , , , ,		_						
infection and fetomaternal														PCR-confirmed
outcomes.	2021	Sharma	DOI: 10.14260/jemds/2021/5	India	21/04/2020	07/09/2020	Cohort	6	125	125	97	97		COVID-19
Severe acute respiratory														
syndrome coronavirus 2														
(SARS-CoV-2) universal														202 (: 1
screening in gravids during labor and delivery.	2021	Saviron-Cornudella	DOI: 10.1016/j.ejogrb.2020.11.069.	Spain	31/03/2020	31/08/2020	Cohort	4	6	6	6	6		PCR-confirmed COVID-19
Clinical findings and disease	2021	3aviron-cornudena	DOI: 10.1010/j.ejogib.2020.11.009.	эран	31/03/2020	31/08/2020	COHOIL	4	0	0	0	- 0		COVID-19
severity in hospitalized														
pregnant women with														
coronavirus disease 2019														PCR-confirmed
(COVID-19).	2020	Savasi	DOI: 10.1097/AOG.0000000000003979.	Italy	23/02/2020	28/03/2020	Cohort	5	77	77	57	57		COVID-19
Neonatal management and														
outcomes during the COVID-														
19 pandemic: an	2020	Calmatana	DOI: 40.4046/52352.4642/20\20225.2	1164	22/02/2020	47/05/2020	Colores		116	446	420	420		PCR-confirmed
observation cohort study.	2020	Salvatore	DOI: 10.1016/S2352-4642(20)30235-2	USA	22/03/2020	17/05/2020	Cohort	8	116	116	120	120		COVID-19
Maternal COVID-19 infection, clinical														
characteristics, pregnancy,														
and neonatal outcome: a					1								1	PCR-confirmed
prospective cohort study.	2020	Antoun	DOI: 10.1016/j.ejogrb.2020.07.008	UK	01/02/2020	01/04/2020	Cohort	6	23	23	20	20	<u>l                                      </u>	COVID-19
Outcomes of maternal-														
newborn dyads after					1 .	1							1	PCR-confirmed
maternal SARS-CoV-2.	2020	Verma	DOI: 10.1542/peds.2020-005637	USA	01/03/2020	10/05/2020	Cohort	6	149	149	149	149	ļ	COVID-19
Effects of severe acute					1								1	1
respiratory syndrome					1								1	1
coronavirus 2 infection on pregnant women and their					1								1	1
infants: a retrospective														PCR-confirmed
study in Wuhan, China.	2020	Yang	DOI: 10.5858/arpa.2020-0232-SA.	China	20/01/2020	19/03/2020	Cohort	6	23	23	23	23	1	COVID-19
Coronavirus disease 2019 in		Ĭ												PCR or clinical
pregnancy was associated					1								1	criteria based
with maternal morbidity and					1								1	diagnosis of
preterm birth.	2020	Sentilhes	DOI: 10.1016/j.ajog.2020.06.022.	France	01/03/2020	03/04/2020	Cohort	5	54	54	21	21	ļ	COVID-19
Clinical characteristics of 46					1								1	1
pregnant women with a													1	DCD confirmed
severe acute respiratory syndrome coronavirus 2	2020	Lokken	DOI: 10.1016/j.ajog.2020.05.031.	USA	21/01/2020	17/04/2020	Cohort	5	46	46	8	8	1	PCR-confirmed COVID-19
	2020	FOUVELL	DO1. 10.1010/ J.ajug.2020.03.031.	UJA	21/01/2020	1//04/2020	COHUIT	3	40	40	0	٥	ı	COAID-13

infection in Washington	ĺ		I	1	1			I	]	_	_	1	I	1
state.														
SARS-CoV-2/COVID-19 infection in pregnancy and														
its outcome in a rural													All women	
tertiary care centre of West													attending	PCR-confirmed
Bengal.	2020	Saha	WHO: covidwho-1001351	India	Not stated	Not stated	Cohort	5	3	3	3	3	hospital	COVID-19
The impact of COVID-19														
infection on labor and														
delivery, newborn nursery,														
and neonatal intensive care														PCR or clinical
unit: prospective														criteria based
observational data from a	2020	CIff:-	DOI: 40.4055 /- 0040.4742446	1164	24 /04 /2020	05 (05 (2020	Colores		27	27	27	27		diagnosis of
single hospital system.	2020	Griffin	DOI: 10.1055/s-0040-1713416	USA	21/04/2020	05/05/2020	Cohort	8	27	27	27	27		COVID-19
Clinical course of coronavirus disease-2019 in														PCR-confirmed
pregnancy.	2020	Pereira	WHO: covidwho-622517	Spain	14/03/2020	14/04/2020	Cohort	6	60	60	23	23		COVID-19
Pregnancy Outcomes in	2020	Terend	Wile conditio 622917	Spani	11,03,2020	11/01/2020	COHOIC	Ů	00		2.0	2.5		00110 25
COVID-19: A Prospective			DOI: 10.47102/annals-											PCR-confirmed
Cohort Study in Singapore.	2020	Mattar	acadmedsg.2020437.	Singapore	15/03/2020	22/08/2020	Cohort	6	16	16	5	5		COVID-19
A pandemic center's														
experience of managing					1							1		
pregnant women with					1							1		
COVID-19 infection in					1		1	1				I		
Turkey: A prospective	2020	Cahin	DOI: 10.1002/iiaa.12242	Tueles	11/02/2022	11 /06 /2022	Cak	_	30	30	4.0	1.0		PCR-confirmed
cohort study.  Vertical Transmission of	2020	Sahin	DOI: 10.1002/ijgo.13318	Turkey	11/03/2020	11/06/2020	Cohort	7	29	29	10	10		COVID-19 PCR-confirmed
COVID-19 to the Neonate.	2020	Moreno	DOI: 10.1155/2020/8460672	USA	20/03/2020	30/04/2020	Cohort	6	19	19	21	21		COVID-19
Maternal and Neonatal	2020	Moreno	DOI: 10:1133/2020/8400072	USA	20/03/2020	30/04/2020	COHOIT	0	19	19	21	21		COVID-19
Outcomes of Pregnant														
Women With Coronavirus														
Disease 2019 (COVID-19)														
Pneumonia: A Case-Control														PCR-confirmed
Study.	2020	Li	DOI: 10.1093/cid/ciaa352.	China	24/01/2020	29/02/2020	Cohort	6	16	16	17	17		COVID-19
Maternal and perinatal														
characteristics and														
outcomes of pregnancies														
complicated with COVID-19 in Kuwait.	2020	Accord	DOI: 10.1186/s12884-020-03461-2	Kuwait	15/03/2020	31/05/2020	Colores	5	185	185	167	167		PCR-confirmed COVID-19
	2020	Ayed	DOI: 10.1186/S12884-020-03461-2	Kuwait	15/03/2020	31/05/2020	Cohort	3	185	185	107	107		COVID-19
Pregnancy Outcomes Among Women With and														
Without Severe Acute														
Respiratory Syndrome			DOI:											PCR-confirmed
Coronavirus 2 Infection.	2020	Adhikari	10.1001/jamanetworkopen.2020.29256	USA	18/03/2020	22/08/2020	Cohort	8	252	252	251	251		COVID-19
SARS-CoV-2 screening of														
asymptomatic women														
admitted for delivery must					1							1		
be performed with a					1							1		
combination of					1							1		DCD confirms d
microbiological techniques: an observational study.	2020	Vinuela	DOI: 10.37201/req/088.2020.	Spain	06/05/2020	21/05/2020	Cohort	6	9	9	9	9		PCR-confirmed COVID-19
·	2020	viilueia	DOI: 10.3/201/164/000.2020.	Spaili	00/03/2020	21/03/2020	COHOIL	6	9	9	9	9	1	COAID-13
Disease severity and perinatal outcomes of					1		1	1				I		
pregnant patients with					1							1		
coronavirus disease 2019					1							1		PCR-confirmed
(COVID-19).	2021	Metz	DOI: 10.1097/AOG.0000000000004339.	USA	01/03/2020	31/07/2020	Cohort	6	1291	1291	1196	1196		COVID-19
		_								_		_		Laboratory-
					1							1		confirmed
Assessing disease outcome					1							1		COVID-19
in COVID-19 pregnancies in					1							1		infection,
a tertiary referral center in					1		1	1				I		unclear of
South India: a single-center	2020	Nambiar	DOI: 10.5005/jp-journals-10006-1822	India	01/04/2020	01/09/2020	Cohort	5	350	350	253	254		method of confirmation
retrospective cohort study.	2020	INdiffibiti	DOI: 10.3003/JP-JOURNAIS-10006-1822	illuid	01/04/2020	01/09/2020	COHOIT	5	350	330	253	254		commination
Screening of severe acute respiratory syndrome					1		1	1				I		
coronavirus-2 infection					1		1	1				I		
during labor and delivery					1		1	1				I		
	1	1		1		1	1	I				1		1
using polymerase chain														
using polymerase chain reaction and	2021	Saviron-Cornudella	DOI: 10.1016/j.lfs.2021.119200	Spain	31/03/2020	30/09/2020	Cohort		22	22	22	22		PCR-confirmed COVID-19

Management of gestational diabetes in women with a concurrent severe acute respiratory syndrome														
coronavirus 2 infection, experience of a single center in northern Italy.	2020	D'Ambrosi	DOI: 10.1002/ijgo.13434	Italy	01/03/2020	30/04/2020	Cohort	6	6	6	6	6		PCR-confirmed COVID-19
Epidemiology, management and risk of SARS-CoV-2 transmission in a cohort of newborns born to mothers diagnosed with COVID-19														PCR-confirmed
infection. Outcomes of neonates born	2021	Solis-Garcia	DOI: 10.1016/j.anpede.2020.12.006.	Spain	01/03/2020	17/08/2020	Cohort	6	73	73	75	75		COVID-19
to mothers with severe acute respiratory syndrome coronavirus 2 infection at a large medical center in New York city.	2021	Dumitriu	DOI: 10.1001/jamapediatrics.2020.4298.	USA	13/03/2020	24/04/2020	Cohort	6	100	100	101	101		PCR or clinical criteria based diagnosis of COVID-19
Neonates born to mothers with COVID-19: data from the Spanish society of														PCR or serology- confirmed
neonatology registry.  Comparison of	2021	Sanchez-Luna	DOI: 10.1542/peds.2020-015065.	Spain	08/03/2020	26/05/2020	Cohort	6	493	493	503	503		COVID-19
hematological parameters and perinatal outcomes between COVID-19 pregnancies and healthy							Case-						All pregnant	PCR-confirmed
pregnancy cohort.	2021	Кос	DOI: 10.1515/jpm-2020-0403.	Turkey	20/03/2020	25/07/2020	control	7	39	39	39	39	women admitted	COVID-19
SARS-CoV-2 in pregnancy: maternal and perinatal outcome data of 34 pregnant women														
hospitalised between may and October 2020.	2021	Hall	DOI: 10.1515/jpm-2020-0499.	Austria	11/05/2020	14/10/2020	Cohort	5	35	35	28	28		PCR-confirmed COVID-19
The Relationship between Status at Presentation and	2021	11011	BOI. 10.1313/jpm-2020-0433.	Austria	11/03/2020	14/10/2020	COHOIT	3	33	- 33	26	26		
Outcomes among Pregnant Women with COVID-19.	2020	London	DOI: 10.1055/s-0040-1712164.	USA	15/03/2020	10/04/2020	Cohort	6	58	58	55	55		PCR-confirmed COVID-19
Analysis of vaginal delivery outcomes among pregnant women in Wuhan, China during the COVID-19						( (	Case-						All pregnant women delivering during	COVID-19 diagnosed on
pandemic.  A multicenter study on	2020	Liao	DOI: 10.1002/ijgo.13188.	China	20/01/2020	02/03/2020	control	7	10	10	10	10	study period	clinical criteria
epidemiological and clinical characteristics of 125 newborns born to women infected with COVID-19 by														PCR-confirmed
Turkish Neonatal Society.  Assessment of Maternal and	2021	Oncel	DOI: 10.1007/s00431-020-03767-5.	Turkey	15/03/2020	15/06/2020	Cohort	5	125	125	120	120		COVID-19
Neonatal SARS-CoV-2 Viral Load, Transplacental Antibody Transfer, and Placental Pathology in														
Pregnancies During the COVID-19 Pandemic.	2020	Edlow	DOI: 10.1001/jamanetworkopen.2020.30455.	USA	02/04/2020	13/06/2020	Cohort	8	64	64	64	64		PCR-confirmed COVID-19
Maternal and perinatal outcomes of pregnant women with SARS-CoV-2	2020	World Association of Perinatal Medicine Working Group on COVID-	20.2027, umunet to more market and a second s	05.	02/0 \q 2020	15/00/2020	conorc		<u> </u>	9.	5.	<u> </u>		PCR-confirmed
infection.	2021	19	DOI: 10.1002/uog.23107.	Multiple	01/02/2020	30/04/2020	Cohort	6	388	388	266	266		COVID-19
Impact of the Coronavirus Infection in Pregnancy: A Preliminary Study of 141 Patients.	2020	Nayak	DOI: 10.1007/s13224-020-01335-3.	India	01/04/2020	15/05/2020	Cohort	7	141	141	131	131		PCR-confirmed COVID-19
Perinatal COVID-19 in Latin America.	2020	Sola	DOI: 10.26633/RPSP.2020.47	Latin America	06/03/2020	30/05/2020	Cohort	5	86	86	86	86	All pregnant women	PCR-confirmed COVID-19
Clinical characteristics, maternal and neonatal	2021	Ozsurmeli	DOI: 10.4149/BLL_2021_023.	Turkey	11/03/2020	01/07/2020	Cohort	6	24	24	10	10		PCR-confirmed COVID-19

outcomes of pregnant	l	İ	I	I	I	I	l			ĺ		I	I	İ
women with SARS-CoV-2		1												
infection in Turkey.														
Maternal, fetal and neonatal		ĺ												
outcomes of large series of SARS-CoV-2 positive		ĺ												
pregnancies in peripartum		ĺ												
period: A single-center		ĺ												
prospective comparative		ĺ		French										PCR-confirmed
study.	2021	Hcini	DOI: 10.1016/j.ejogrb.2020.11.068	Guiana	16/06/2020	16/08/2020	Cohort	6	137	137	127	127		COVID-19
Perinatal outcomes and		ĺ												
serological results in		ĺ												
neonates of pregnant women seropositive to		ĺ												Serological
SARS-CoV-2: A cross-		ĺ											All pregnant	diagnosis of
sectional descriptive study.	2020	Davila-Aliaga	DOI: 10.5867/medwave.2020.11.8084.	Peru	15/04/2020	10/05/2020	Cohort	5	114	114	114	114		COVID-19
Clinical Stratification of		ĺ												
Pregnant COVID-19 Patients		ĺ												
based on Severity: A Single		ĺ											All meannant	PCR-confirmed
Academic Center Experience.	2021	Berry	DOI: 10.1055/s-0041-1723761	USA	01/03/2020	01/07/2020	Cohort	6	91	91	60	60	All pregnant women admitted	COVID-19
Pregnancy and neonatal	-521	,		55.1	02,00,2020	32,0.,2020	20.1011	3	J.	J.				50.15 15
outcomes of COVID-19:		ĺ												
coreporting of common		ĺ		1									1	
outcomes from PAN-COVID	2024		201 40 4000/		04/04/0000	25 (27 (222		_	2050	2050	2050	2052	All pregnant	PCR-confirmed
and AAP-SONPM registries. Updated experience of a	2021	Mullins	DOI: 10.1002/uog.23619	Worldwide	01/01/2020	25/07/2020	Cohort	7	3050	3050	3050	3050	women	COVID-19
tertiary pandemic center on		ĺ												
533 pregnant women with		ĺ												
COVID-19 infection: A		ĺ												
prospective cohort study		ĺ												PCR-confirmed
from Turkey.	2021	Sahin Surel	DOI: 10.1002/ijgo.13460	Turkey	11/03/2020	10/09/2020	Cohort	6	533	533	131	131		COVID-19
Maternal and Neonatal		ĺ												
Outcomes of COVID-19 in Pregnancy: A Single-Centre		ĺ												PCR-confirmed
Observational Study.	2021	Singh	DOI: 10.7759/cureus.13184.	India	15/05/2020	15/11/2020	Cohort	6	132	132	125	125		COVID-19
Characteristics and					,	20, 22, 2020								
outcomes of neonatal SARS-		ĺ												
CoV-2 infection in the UK: a		ĺ												
prospective national cohort		ĺ											All neonates	DCDfirm
study using active surveillance.	2021	Gale	DOI: 10.1016/S2352-4642(20)30342-4	UK	01/03/2020	30/04/2020	Cohort	8	17	17	66	66	with confirmed SARS-CoV-2	PCR-confirmed COVID-19
COVID-19 in a cohort of	2021	duic	501. 10.1010/32332 4042(20/30342 4	OK .	01/03/2020	30/04/2020	COHOIC		17	17	- 00	00	SANS COV Z	COVID 15
pregnant women and their		ĺ												
descendants, the MOACC-19		ĺ												PCR-confirmed
study.	2021	Llorca	DOI: 10.1136/bmjopen-2020-044224	Spain	23/05/2020	22/10/2020	Cohort	6	14	14	14	14		COVID-19
Coronavirus disease 2019 in	2020		B 0 1 10 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1		45/04/0000	45 (00 (0000								PCR-confirmed
Pregnancy Clinical analysis of ten	2020	Qiancheng	DOI: 10.1016/j.ijid.2020.04.065	China	15/01/2020	15/03/2020	Cohort	6	82	82	23	23		COVID-19
pregnant women with		ĺ												
COVID-19 in Wuhan, China:		ĺ												PCR-confirmed
A retrospective study	2020	Cao	DOI: 10.1016/j.ijid.2020.04.047	China	23/01/2020	23/02/3030	Cohort	5	10	10	10	10		COVID-19
Maternal, Perinatal and														
Neonatal Outcomes with		ĺ		1									1	
COVID-19: A Multicenter Study of 242 Pregnancies		ĺ		1									1	
and Their 248 Infant		ĺ												PCR or serology-
Newborns during Their First		ĺ		1									1	confirmed
Month of Life	2020	Marin Gabriel	DOI: 10.1097/INF.0000000000002902	Spain	13/03/2020	31/05/2020	Cohort	6	242	242	248	248		COVID-19
Clinical course of novel		1												
COVID-19 infection in	2020	Charachara	DOI: 40.4000/4.47570F0.2020.4070502	D	Non-state 1	Man	Colour				42		All pregnant	PCR-confirmed
pregnant women	2020	Shmakov	DOI: 10.1080/14767058.2020.1850683	Russia	Not stated	Not stated	Cohort	5	66	66	42	42	women admitted	COVID-19
Vaginal delivery in SARS-		ĺ		1									1	
CoV-2-infected pregnant women in Israel: a		ĺ		1									1	
multicenter prospective		İ												PCR-confirmed
analysis	2020	Rottenstreich	DOI: 10.1007/s00404-020-05854-2	Israel	15/03/2020	04/07/2020	Cohort	6	52	52	52	52		COVID-19
Clinical Analysis of Neonates		1												
Born to Mothers with or	2020	Liu	DOI: 10.1055/s-0040-1716505	China	17/01/2020	04/03/2020	Case- control	6	31	15	31	15	1	PCR or radiological
without COVID-19: A							control		31					

Supplemental material

Retrospective Analysis of 48	1 1	1	I	İ	i	I	ı	i	I	l	l	l	1	diagnosis of
Cases from Two Neonatal														COVID-19
Intensive Care Units in														
Hubei Province					+									
Characteristics of Newborns Born to SARS-CoV-2-Positive														
Mothers: A Retrospective							Case-							PCR-confirmed
Cohort Study	2020	Farghaly	DOI: 10.1055/s-0040-1715862	USA	01/03/2020	01/05/2020	control	8	79	15	79	15		COVID-19
Poor maternal-neonatal														
outcomes in pregnant patients with confirmed														
SARS-Cov-2 infection:														PCR-confirmed
analysis of 145 cases	2021	Di Guardo	DOI: 10.1007/s00404-020-05909-4	Italy	01/03/2020	01/07/2020	Cohort	6	145	145	145	145		COVID-19
Coronavirus and birth in														PCR, serological
Italy: results of a national														or radiological
population-based cohort study	2020	Maraschini	DOI: 10.4415/ANN 20 03 17.	Italy	25/02/2020	22/04/2020	Cohort	7	146	146	147	147		diagnosis of COVID-19
Infant Outcomes Following				,										
Maternal Infection with														
SARS-CoV-2: First Report	2020	51.1	201 40 4000 ( ) ( )		22/22/222	22/25/2222	Case-		252	470	252	4=0		PCR-confirmed
from the PRIORITY Study Incidence and clinical	2020	Flaherman	DOI: 10.1093/cid/ciaa1411	USA	22/03/2020	22/06/2020	control	8	263	179	263	179		COVID-19
profiles of COVID-19														
pneumonia in pregnant														
women: A single-centre														PCR-confirmed
cohort study from Spain	2020	San-Juan	DOI: 10.1016/j.eclinm.2020.100407	Spain	05/03/2020	05/04/2020	Cohort	6	52	52	6	6		COVID-19
Vaginal delivery in SARS- CoV-2-infected pregnant														
women in Northern Italy: a														PCR-confirmed
retrospective analysis	2020	Ferrazzi	DOI: 10.1111/1471-0528.16278	Italy	01/03/2020	20/03/2020	Cohort	6	42	42	42	42		COVID-19
Obstetric Outcomes of														
SARS-CoV-2 Infection in							Casa							DCD confirmed
Asymptomatic Pregnant Women	2021	Cruz-Lemini	DOI: 10.3390/v13010112.	Spain	23/03/2020	31/03/2020	Case- control	8	604	174	604	174		PCR-confirmed COVID-19
SARS-CoV-2 infection in	2021	Cruz zemin	501. 10.0050/V15010112.	Spani	23/03/2020	31,00,2020	CONTEND		001		001	27.		00110 23
pregnancy and newborn in a														PCR or serology-
Spanish multicentric cohort	2020		201 1 1 140 4405 / 4000 4 00 4 00 704 0		45 (00 (0000	24 /27 /222			405	405	407			confirmed
(GESNEO-COVID)  Clinical course of severe and	2020	Carrasco	DOI: doi.org/10.1186/s12884-021-03784-8	Spain	15/03/2020	31/07/2020	Cohort	6	105	105	107	107		COVID-19
critical coronavirus disease														
2019 in hospitalized														
pregnancies: a United States														PCR-confirmed
cohort study	2020	Pierce-Williams	DOI: 10.1016/j.ajogmf.2020.100134	USA	05/03/2020	20/04/2020	Cohort	6	64	64	33	33		COVID-19
Rates of seroprevalance of COVID-19 among pregnant														PCR or serology- confirmed
patients in New York City	2021	Baptiste	DOI: 10.1016/j.ajog.2020.12.944	USA	24/06/2020	16/07/2020	Cohort	6	47	19	47	19		COVID-19
Maternal and neonatal		•	10.00											
outcomes of pregnant														
patients with coronavirus disease 2019 (COVID-19): A														PCR or serology- confirmed
multistate cohort	2021	Metz	DOI: 10.1016/j.ajog.2020.12.1204	USA	01/03/2020	31/07/2020	Cohort	6	1219	1219	1196	1196		COVID-19
Obstetrical and neonatal					-,,	, ,		Ť						
outcomes among					1									
pregnancies with SARS-CoV-	2024	Trohon	DOI: 10.1016/j.ejen.2020.12.205	Canad-	22/02/2022	24 /07 /2020	Case-	_	300	40	200	45	1	PCR-confirmed
Comparison of clinical	2021	Trahan	DOI: 10.1016/j.ajog.2020.12.385	Canada	22/03/2020	31/07/2020	control	7	206	43	209	45		COVID-19
outcomes in pregnant					1								All pregnant	1
women with and without					1								women	1
COVID-19 based on disease							Case-						delivering during	1
Severity Necestal outcomes of	2021	Gold	DOI: 10.1016/j.ajog.2020.12.585	USA	01/03/2020	01/07/2020	control Case-	4	486	91	486	91	study period	Unclear BCB confirmed
	2021	Zarudskaya	DOI: 10.1016/j.ajog.2020.12.568	USA	01/03/2020	01/08/2020	case- control	7	28	10	28	10		PCR-confirmed COVID-19
Neonatal outcomes of COVID-19 positive mothers			, ,,,,		, -5, 2020	,,,		<u> </u>					1	
COVID-19 positive mothers  Perinatal outcomes of														
COVID-19 positive mothers  Perinatal outcomes of asymptomatic versus														
COVID-19 positive mothers  Perinatal outcomes of asymptomatic versus symptomatic COVID positive		Andrikan	DOI: 10.1046/j. size 2000.13.007	LICA	12/02/2022	12/08/2022	Cak		45-	45-	450	450		PCR-confirmed
COVID-19 positive mothers  Perinatal outcomes of asymptomatic versus symptomatic COVID positive pregnant women	2021	Andrikopoulou	DOI: 10.1016/j.ajog.2020.12.097	USA	12/03/2020	12/08/2020	Cohort	6	157	157	156	156		PCR-confirmed COVID-19
COVID-19 positive mothers  Perinatal outcomes of asymptomatic versus symptomatic COVID positive		Andrikopoulou	DOI: 10.1016/j.ajog.2020.12.097	USA	12/03/2020	12/08/2020	Cohort Case-	6	157	157	156	156		

Infant outcomes and maternal COVID-19 status at							Case-						PCR-confirmed
delivery	2021	Zgutka	DOI: 10.1515/jpm-2020-0481.	USA	15/03/2020	15/06/2020	control	5	184	60	186	62	COVID-19
Initial review of pregnancy and neonatal outcomes of pregnant women with COVID-19 infection	2021	Ogamba	DOI: 10.1515/jpm-2020-0446	USA	17/03/2020	04/06/2020	Cohort	6	40	40	25	25	PCR or serology- confirmed COVID-19
Impact of SARS-CoV-2 Infection on Pregnancy Outcomes: A Population-							Case-						PCR or serology- confirmed
Based Study	2021	Crovetto	DOI: 10.1093/cid/ciab104	Spain	15/03/2020	31/05/2020	control	8	2225	317	1338	178	COVID-19
Management and short- term outcomes of infants born to mothers with active perinatal covid-19 infection	2021	Lamba	DOI: 10.1186/s12887-021-02872-0	USA	01/04/2020	01/10/2020	Cohort	5	43	43	43	43	PCR-confirmed COVID-19
Maternal and perinatal	2021	Lamba	DOI: 10.1186/\$12887-021-02872-0	USA	01/04/2020	01/10/2020	Conort	5	43	43	43	43	COVID-19
outcomes of pandemic Covid-19 in pregnancy in Basrah	2021	Sharief	ISSN: 2515-8260	Iraq	15/03/2020	01/11/2020	Cohort	6	135	135	110	110	PCR-confirmed COVID-19
Maternal, neonatal and placental characteristics of SARS-CoV-2 positive							Case-						PCR-confirmed
mothers	2021	Zhang	DOI: 10.1080/14767058.2021.1892637	USA	01/03/2020	01/08/2020	control	8	219	142	219	142	COVID-19
Disease severity, pregnancy outcomes, and maternal deaths among pregnant patients with severe acute respiratory syndrome													
coronavirus 2 infection in	2024	Labban	DOI: 40.4045 // -i 2020 42.4224	LICA	04 /02 /2020	20/05/2020	Colores		240	240	456	456	PCR-confirmed
Washington State  Maternal and perinatal	2021	Lokken	DOI: 10.1016/j.ajog.2020.12.1221	USA	01/03/2020	30/06/2020	Cohort	6	240	240	156	156	COVID-19
outcomes in high vs low risk- pregnancies affected by SARS-COV-2 infection (Phase-2): The WAPM (World Association of Perinatal Medicine) working													PCR-confirmed
group on COVID-19	2021	D'Antonio	DOI: 10.1016/j.ajogmf.2021.100329	25 countries	04/04/2020	28/10/2020	Cohort	6	887	887	874	874	COVID-19
Epidemiology of coronavirus disease 2019 in pregnancy: risk factors and associations with adverse maternal and neonatal outcomes	2021	Brandt	DOI: 10.1016/j.ajog.2020.09.043	USA	11/03/2020	11/06/2020	Case- control	8	183	122	184	123	PCR-confirmed COVID-19
Covid 19 infection in pregnant women and newborn infants at a single U.S. center: What disparities, testing and isolation practices can teach													PCR-confirmed
US	2020	Camelo	DOI: 10.1093/ofid/ofaa439.718	USA	31/03/2020	17/06/2020	Cohort	6	36	36	32	32	COVID-19
The association between SARS-CoV-2 infection and preterm delivery: a prospective study with a	2021	Mortings Daves	DOI: 10.4195/s413994.034.03743.4	Casia	22/02/2020	21/05/2020	Case-	0	1000	246	1000	246	PCR-confirmed
multivariable analysis Pregnancy Outcomes among	2021	Martinez-Perez	DOI: 10.1186/s12884-021-03742-4	Spain	23/03/2020	31/05/2020	control	8	1009	246	1009	246	COVID-19
Women with and without Severe Acute Respiratory Syndrome Coronavirus 2			DOI:				Case-						PCR-confirmed
Infection	2020	Adhikari	10.1001/jamanetworkopen.2020.29256	USA	18/03/2020	22/08/2020	control	8	3374	252	3263	248	COVID-19
Clinicolaboratory profile of and outcomes in neonates born to covid-19-positive mothers	2021	Sehra	ISSN: 0972-2408	India	13/04/2020	31/07/2020	Cohort	6	120	120	120	120	PCR-confirmed COVID-19
Clinical Profile, Viral Load, Maternal-Fetal Outcomes of Pregnancy With COVID-19: 4-Week Retrospective, Tertiary Care Single-Centre													PCR-confirmed
Descriptive Study	2021	Bachani	DOI: 10.1016/j.jogc.2020.09.021	India	05/05/2020	05/06/2020	Cohort	6	57	57	56	56	COVID-19

	1		l .	1	1			l			l		Ī	1
Management and Early Outcomes of Neonates Born														
to Women with SARS-CoV-2														PCR-confirmed
in 16 US. Hospitals	2021	Congdon	DOI: 10.1055/s-0041-1726036	USA	01/03/2020	01/05/2020	Cohort	6	70	70	70	70		COVID-19
Maternal and neonatal						, ,								
outcomes of pregnant														
patients with COVID-19: A		Abedzadeh-					Case-							PCR-confirmed
prospective cohort study	2021	Kalahroudi	DOI: 10.1002/ijgo.13661	Iran	01/03/2020	01/11/2020	control	8	150	56	149	55		COVID-19
Multicentre Spanish study			, , , , , , , , , , , , , , , , , , , ,			, ,								
found no incidences of viral														
transmission in infants born														PCR-confirmed
to mothers with COVID-19	2020	Marin Gabriel	DOI: 10.1111/apa.15474	Spain	13/03/2020	29/03/2020	Cohort	6	42	42	42	42		COVID-19
SARS-CoV-2 Infection during			, , , , ,											
Pregnancy in a Rural														
Midwest All-delivery Cohort														
and Associated Maternal							Case-							PCR-confirmed
and Neonatal Outcomes	2021	Steffen	DOI: 10.1055/s-0041-1723938	USA	01/05/2020	22/09/2020	control	8	1000	61	1021	62		COVID-19
		World Association						-						
Maternal and perinatal		of Perinatal												
outcomes of pregnant		Medicine Working												
women with SARS-CoV-2		Group on COVID-												PCR-confirmed
infection	2021	19	DOI: 10.1002/uog.23107	Multiple	01/02/2020	30/04/2020	Cohort	6	388	388	251	251		COVID-19
A single-center	2021	13	DOI: 10.1002/ dog.25107	ividitipic	01/02/2020	30/04/2020	COHOIC		300	300	231	231		COVID 15
observational study on														
clinical features and														
outcomes of 21 SARS-CoV-2-														
infected neonates from														PCR-confirmed
India	2021	Nanavati	DOI: 10.1007/s00431-021-03967-7	India	15/04/2020	31/07/2020	Cohort	6	122	122	125	125		COVID-19
Perinatal outcomes in	2021	Ivaliavati	DOI: 10:1007/300431-021-03907-7	IIIuia	13/04/2020	31/07/2020	COHOIT	0	122	122	123	123		COVID-13
pregnant women with														
COVID-19 in Siberia and the														
Russian Far East	2021	A min uma u da	DOI: 10.1080/14767058.2021.1881954	Russia	Not stated	25/12/2020	Cohort	5	8485	8485	2383	2383		
	2021	Artymuk	DOI: 10.1080/14/6/058.2021.1881954	Russia	Not stated	25/12/2020	Conort	3	8483	8483	2383	2383		
Prevalence and Risk Factors														
of Neonatal Covid-19														DCDfirm
Infection: A Single-Centre	2024	A !!Al-	DOI: 40 4007/:42224 024 04426 7	to die	45 /04/2020	45 /40 /2020	Coloran		250	350	223	223		PCR-confirmed
Observational Study	2021	Ajith	DOI: 10.1007/s13224-021-01436-7	India	15/04/2020	15/10/2020	Cohort	6	350	330	223	223		COVID-19
Impact of Covid-19 in														
pregnancy on mother's														
psychological status and														
infant's neurobehavioral														DCDfirm
development: a longitudinal	2020	14/	DOI: 40 4406/-42046 020 04025 4	China	01/05/2020									PCR-confirmed
cohort study in China.	2020	Wang	DOI: 10.1186/s12916-020-01825-1	China					72	72				
Vertical Transmission of					01/03/2020	31/07/2020	Cohort	6	72	72	57	57		COVID-19
Novel Coronavirus (COVID-					01/03/2020	31/07/2020	Cohort	6	72	72	57	57		COVID-19
					01/03/2020	31/07/2020	Cohort	6	72	72	57	57		COVID-19
19) from Mother to					01/03/2020	31/07/2020	Cohort	6	72	72	57	57		COVID-19
19) from Mother to Newborn: Experience from a					01/03/2020	31/07/2020	Cohort	6	72	72	57	57		
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus														PCR-confirmed
19) from Mother to Newborn: Experience from a	2020	Khan	DOI: 10.29271/jcpsp.2020.10.136	Pakistan	27/04/2020	31/07/2020 16/06/2020	Cohort	6	72 66	72 66	57 67	57 67		PCR-confirmed COVID-19
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.	2020	Khan		Pakistan										PCR-confirmed COVID-19 PCR or clinical
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.	2020	Khan		Pakistan										PCR-confirmed COVID-19 PCR or clinical criteria based
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi. Coronavirus disease 2019 in pregnant women: a report			DOI: 10.29271/jcpsp.2020.10.136		27/04/2020	16/06/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi. Coronavirus disease 2019 in pregnant women: a report based on 116 cases.	2020	Khan		Pakistan China										PCR-confirmed COVID-19 PCR or clinical criteria based
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi. Coronavirus disease 2019 in pregnant women: a report based on 116 cases. Clinical profile of SARS-CoV-			DOI: 10.29271/jcpsp.2020.10.136		27/04/2020	16/06/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi. Coronavirus disease 2019 in pregnant women: a report based on 116 cases. Clinical profile of SARS-CoV- 2 infected neonates from a			DOI: 10.29271/jcpsp.2020.10.136		27/04/2020	16/06/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.  Coronavirus disease 2019 in pregnant women: a report based on 116 cases. Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital	2020	Yan	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014	China	27/04/2020	16/06/2020 24/03/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19 PCR-confirmed
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi. Coronavirus disease 2019 in pregnant women: a report based on 116 cases. Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India.			DOI: 10.29271/jcpsp.2020.10.136		27/04/2020	16/06/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi. Coronavirus disease 2019 in pregnant women: a report based on 116 cases. Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India. Clinical profile, viral load,	2020	Yan	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014	China	27/04/2020	16/06/2020 24/03/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19 PCR-confirmed
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.  Coronavirus disease 2019 in pregnant women: a report based on 116 cases.  Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India.  Clinical profile, viral load, management and outcome	2020	Yan	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014	China	27/04/2020	16/06/2020 24/03/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19 PCR-confirmed
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.  Coronavirus disease 2019 in pregnant women: a report based on 116 cases. Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India. Clinical profile, viral load, management and outcome of neonates born to COVID	2020	Yan	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014	China	27/04/2020	16/06/2020 24/03/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19 PCR-confirmed
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi. Coronavirus disease 2019 in pregnant women: a report based on 116 cases. Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India. Clinical profile, viral load, management and outcome of neonates born to COVID 19 positive mothers: a	2020	Yan	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014	China	27/04/2020	16/06/2020 24/03/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19 PCR-confirmed COVID-19
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.  Coronavirus disease 2019 in pregnant women: a report based on 116 cases.  Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India.  Clinical profile, viral load, management and outcome of neonates born to COVID 19 positive mothers: a tertiary care centre	2020	Yan Kalamdani	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014  DOI: 10.1007/s13312-020-2070-9	China	27/04/2020 20/01/2020 01/04/2020	16/06/2020 24/03/2020 31/05/2020	Cohort	6	66 116 185	116 185	100	100		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19  PCR-confirmed COVID-19  PCR-confirmed
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi. Coronavirus disease 2019 in pregnant women: a report based on 116 cases. Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India. Clinical profile, viral load, management and outcome of neonates born to COVID 19 positive mothers: a	2020	Yan	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014	China	27/04/2020	16/06/2020 24/03/2020	Cohort	6	66	66	67	67		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19 PCR-confirmed COVID-19
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.  Coronavirus disease 2019 in pregnant women: a report based on 116 cases.  Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India.  Clinical profile, viral load, management and outcome of neonates born to COVID 19 positive mothers: a tertiary care centre	2020	Yan Kalamdani	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014  DOI: 10.1007/s13312-020-2070-9	China	27/04/2020 20/01/2020 01/04/2020	16/06/2020 24/03/2020 31/05/2020	Cohort	6	66 116 185	116 185	100	100		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19  PCR-confirmed COVID-19  PCR-confirmed
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.  Coronavirus disease 2019 in pregnant women: a report based on 116 cases. Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India. Clinical profile, viral load, management and outcome of neonates born to COVID 19 positive mothers: a tertiary care centre experience from India.	2020	Yan Kalamdani	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014  DOI: 10.1007/s13312-020-2070-9	China	27/04/2020 20/01/2020 01/04/2020	16/06/2020 24/03/2020 31/05/2020	Cohort	6	66 116 185	116 185	100	100		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19  PCR-confirmed COVID-19  PCR-confirmed
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.  Coronavirus disease 2019 in pregnant women: a report based on 116 cases.  Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India.  Clinical profile, viral load, management and outcome of neonates born to COVID 19 positive mothers: a tertiary care centre experience from India.  Clinical Manifestation and	2020	Yan Kalamdani	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014  DOI: 10.1007/s13312-020-2070-9	China	27/04/2020 20/01/2020 01/04/2020	16/06/2020 24/03/2020 31/05/2020	Cohort	6	66 116 185	116 185	100	100		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19  PCR-confirmed COVID-19  PCR-confirmed
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.  Coronavirus disease 2019 in pregnant women: a report based on 116 cases.  Clinical profile of SARS-CoV-2 infected neonates from a tertiary government hospital in Mumbai, India.  Clinical profile, viral load, management and outcome of neonates born to COVID 19 positive mothers: a tertiary care centre experience from India.  Clinical Manifestation and Neonatal Outcomes of	2020	Yan Kalamdani	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014  DOI: 10.1007/s13312-020-2070-9	China	27/04/2020 20/01/2020 01/04/2020	16/06/2020 24/03/2020 31/05/2020	Cohort	6	66 116 185	116 185	100	100		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19  PCR-confirmed COVID-19  PCR-confirmed
19) from Mother to Newborn: Experience from a Maternity Unit, The Indus Hospital, Karachi.  Coronavirus disease 2019 in pregnant women: a report based on 116 cases.  Clinical profile of SARS-CoV- 2 infected neonates from a tertiary government hospital in Mumbai, India.  Clinical profile, viral load, management and outcome of neonates born to COVID 19 positive mothers: a tertiary care centre experience from India.  Clinical Manifestation and Neonatal Outcomes of Pregnant Patients With	2020	Yan Kalamdani	DOI: 10.29271/jcpsp.2020.10.136  DOI: 10.1016/j.ajog.2020.04.014  DOI: 10.1007/s13312-020-2070-9	China	27/04/2020 20/01/2020 01/04/2020	16/06/2020 24/03/2020 31/05/2020	Cohort	6	66 116 185	116 185	100	100		PCR-confirmed COVID-19 PCR or clinical criteria based diagnosis of COVID-19  PCR-confirmed COVID-19  PCR-confirmed

Supplemental material

Impact of SARS-CoV-2 on			1	ĺ	Ì	I	1 1				İ	I	ĺ	İ
multiple gestation														PCR-confirmed
pregnancy.	2021	Mahajan	DOI: 10.1002/ijgo.13508	India	04/04/2020	10/09/2020	Cohort	6	879	879	633	633		COVID-19
The impact of perinatal														
severe acute respiratory syndrome coronavirus 2														
infection during the														PCR-confirmed
peripartum period.	2021	Janssen	DOI: 10.1016/j.ajogmf.2020.100267	USA	25/03/2020	15/05/2020	Cohort	6	180	180	180	180		COVID-19
Maternal and perinatal			.,,,,,											
characteristics of pregnant														
women with COVID-19 in a														PCR or rapid test
national hospital in Lima,	2020	Usersta Carrier	DOI: 40.24.402/	B	24/02/2020	07/05/2020	Coloran		27	27	25	25		confirmed
Peru An initiative to evaluate the	2020	Huerta Saenz	DOI: 10.31403/rpgo.v66i2245	Peru	24/03/2020	07/05/2020	Cohort	6	37	37	35	35	<u> </u>	COVID-19
safety of maternal bonding														
in patients with SARS-CoV-2														PCR-confirmed
infection	2020	Cojocaru	DOI: 10.1080/14767058.2020.1828335	USA	01/03/2020	01/06/2020	Cohort	6	86	86	34	34		COVID-19
Short-term neonatal														
outcomes of colocating and														
breastfeeding infants of			DOI:											DCDfirmd
mothers who tested positive for sars-cov-2	2020	Krishnan	DOI: 10.1542/peds.147.3_MeetingAbstract.729	USA	19/03/2020	22/04/2020	Cohort	6	45	45	45	45		PCR-confirmed COVID-19
Impact of Maternal Severe	2020	KIISIIIIdii	10.1342/peds.147.5_WeetingAbstract.729	USA	13/03/2020	22/04/2020	COHOIC	0	43	43	43	43		COVID-13
Acute Respiratory Syndrome														1
Coronavirus 2 Detection on														
Breastfeeding Due to Infant														PCR-confirmed
Separation at Birth	2020	Popofsky	DOI: 10.1016/j.jpeds.2020.08.004	USA	25/03/2020	30/05/2020	Cohort	6	160	160	160	160		COVID-19
SARS-CoV-2 in pregnancy:														
characteristics and outcomes of hospitalized														
and non-hospitalized														PCR-confirmed
women due to COVID-19	2020	Barbero	DOI: 10.1080/14767058.2020.1793320	Spain	03/03/2020	31/05/2020	Cohort	6	23	23	23	23		COVID-19
Clinical characteristics of			,			, , , ,		-				_		
COVID-19 in pregnant														
women: A retrospective														
descriptive single-center														202 (: 1
study from a tertiary	2021	Santhosh	DOI: 10.1002/ijgo.13427	Oman	24/03/2020	31/07/2020	Cohort	6	60	60	46	46		PCR-confirmed COVID-19
hospital in Muscat, Oman Clinical characteristics and	2021	Santilosii	DOI: 10.1002/1Jg0.1342/	Offian	24/03/2020	31/07/2020	COHOIT	0	00	00	40	40		COVID-19
pregnancy outcomes of														
women diagnosed with														
SARS-CoV-2 in London's														
most ethnically diverse														
borough: A cross-sectional	2024	A ATU-	DOI: 40.4477/4752405V20005402		42/02/2020	22/04/2020	Coloran		22	22	20	20		PCR-confirmed
study Evaluation of cochlear	2021	Milln	DOI: 10.1177/1753495X20985403	UK	12/03/2020	22/04/2020	Cohort	6	32	32	30	30		COVID-19
functions in infants exposed														PCR-confirmed
to SARS-CoV-2 intrauterine	2021	Celik	DOI: 10.1016/j.amjoto.2021.102982	Turkey	01/03/2020	01/12/2020	Cohort	8	73	37	73	37		COVID-19
Ultrasound and Doppler														PCR or rapid test
findings in pregnant SARS-														confirmed
CoV-2 positive women	2021	Soto-Torres	DOI: 10.1002/uog.23642	USA	01/05/2020	31/08/2020	Cohort	7	209	106	209	106		COVID-19
Maternal and perinatal														1
outcomes of pregnant													All prognant	ĺ
women with SARS-CoV-2 infection at the time of birth													All pregnant women	
in England: national cohort							Case-						delivering	PCR-confirmed
study	2021	Gurol-Urganci	DOI: 10.1016/j.ajog.2021.05.016	UK	29/05/2020	31/01/2021	control	7	342080	3527	338553	3527	singletons	COVID-19
		-				•								PCR or
Clinical characteristics of														radiological
pregnant women with	2022	Chara	DOI: 40.4056/NEINA-2222223	China	00/42/224	20/02/222	C-1 .						All pregnant	diagnosis of
COVID-19 in Wuhan, China	2020	Chen	DOI: 10.1056/NEJMc2009226	China	08/12/2019	20/03/2020	Cohort	5	118	118	70	70	women	COVID-19
Clinical features and the maternal and neonatal														ĺ
outcomes of pregnant														1
women with coronavirus													All pregnant	PCR-confirmed
2019	2020	Nie	DOI: 10.1101/2020.03.22.20041061	China	01/01/2020	01/02/2020	Cohort	5	33	33	28	28	women	COVID-19
Coronavirus disease 2019														
among pregnant Chinese													All pregnant	PCR-confirmed
women: case series data on	2020	Wu	DOI: 10.1111/1471-0528.16276	China	31/01/2020	09/03/2020	Cohort	5	13	13	5	5	women admitted	COVID-19

the safety of vaginal birth			I	İ	i				İ			ĺ		l l
and breastfeeding														
Severe acute respiratory syndrome coronavirus 2														
(SARS-CoV-2) infection														
during pregnancy in China: a retrospective cohort study	2020	Yin	DOI: 10.1101/2020.04.07.20053744	China	28/01/2020	28/02/2020	Cohort	7	31	31	17	17	All female patients	PCR-confirmed COVID-19
Prevalence of SARS-CoV-2	2020	1111	501. 10.1101/2020.04.07.20033744	Cillia	28/01/2020	20/02/2020	Conort	,	31	31	- 17	17	patients	COVID-13
among patients admitted for													All pregnant	
childbirth in southern Conneticut	2020	Campbell	DOI: 10.1001/jama.2020.8904	USA	02/04/2020	29/04/2020	Cohort	7	770	30	770	30	women admitted for childbirth	PCR-confirmed COVID-19
Clinical characteristics of	2020	Campbell	BOI. 10.1001/juma.2020.0304	USA	02/04/2020	23/04/2020	COHOIC	,	770	30	770	30	TOT CHILADII CIT	COVID 13
pregnant women with														
Coronavirus disease 2019 in Wuhan, China	2020	Cheng	DOI: 10.1093/ofid/ofaa294	China	15/01/2020	23/02/2020	Cohort	6	111	111	17	17	All pregnant women admitted	PCR-confirmed COVID-19
COVID-19 during pregnancy:					-0,0-,-0-0		-							
A case series from an														
universally tested population from the north													All pregnant	PCR-confirmed
of Portugal	2020	Doria	DOI: 10.1016/j.ejogrb.2020.05.029	Portugal	25/03/2020	15/04/2020	Cohort	5	12	12	11	11	women admitted	COVID-19
Routine screening for SARS- CoV-2 in unselected							Case-						All pregnant	PCR-confirmed
pregnant women at delivery	2020	Diaz-Corvillon	DOI: 10.1371/journal.pone.0239887	Chile	27/04/2020	07/06/2020	control	5	583	37	586	37	women admitted	COVID-19
						, ,							All pregnant	
COVID-19 in the second half of pregnancy: prevalence							Case-						women delivering during	PCR-confirmed
and clinical relevance	2020	Ruggiero	DOI: 10.21203/rs.3.rs-34492/v1	Italy	07/04/2020	06/05/2020	control	6	315	28	315	28	study period	COVID-19
Racial-ethnic disparities and														
pregnancy outcomes in SARS-CoV-2 infection in a													All pregnant	
universally-tested cohort in							Case-						women admitted	PCR-confirmed
Houston, Texas	2020	Pineles	DOI: 10.1016/j.ejogrb.2020.09.012	USA	22/04/2020	22/07/2020	control	7	935	77	935	77	for childbirth	COVID-19
Fetomaternal outcome in COVID-19 infected pregnant														
women: a preliminary													All pregnant	PCR-confirmed
clinical study	2020	Shah	DOI: 10.18203/2320-1770.ijrcog20203843	India	15/04/2020	10/06/2020	Cohort	5	125	125	96	96	women	COVID-19
COVID-19 infection during pregnancy - maternal and													All pregnant	
perinatal outcomes: a													women in third	PCR-confirmed
tertiary care centre study	2020	Hassan	DOI: 10.18203/2320-1770.ijrcog20203853	India	01/03/2020	30/06/2020	Cohort	5	38	38	37	37	trimester	COVID-19
A study of breastfeeding practices, SARS-CoV-2 and														
its antibodies in the breast														
milk of mothers confirmed with COVID-19	2020	Peng	DOI: 10.1016/j.lanwpc.2020.100045	China	10/02/2020	01/04/2020	Case- control	7	64	24	66	25	All pregnant women	PCR-confirmed COVID-19
Influence of race and	2020	reng	DOI: 10.1010/J.lanwpc.2020.100045	Cillia	10/02/2020	01/04/2020	CONTROL	,	04	24	00	23	women	COVID-13
ethnicity on severe acute														
respiratory syndrome coronavirus 2 (SARS-CoV-2)													All pregnant women	
infection rates and clinical													delivering during	PCR-confirmed
outcomes in pregnancy	2020	Emeruwa	DOI: 10.1097/AOG.0000000000004088	USA	13/03/2020	23/04/2020	Cohort	5	100	100	100	100	study period	COVID-19
Vertical transmission and materno-fetal outcomes in														PCR-confirmed SARS-CoV-2 or
13 patients with coronavirus													All pregnant	serology and
disease 2019	2020	Masmejan	DOI: 10.1016/j.cmi.2020.06.035	Switzerland	01/04/2020	06/05/2020	Cohort	5	13	13	13	13	women admitted	positive contact
Retrospective description of pregnant women infected														
with severe acute														
respiratory syndrome coronavirus 2, France	2020	Vivanti	DOI: 10.3201/eid2609.202144	France	12/03/2020	12/04/2020	Cohort	5	100	100	36	36	All pregnant women	PCR-confirmed SARS-CoV-2
Maternal and Fetal	2020	vivaliti	201. 10.3201/ Elu2003.202144	rrance	12/03/2020	12/04/2020	CONDIT	3	100	100	30	30	WOITIEII	5/4113-CU V=Z
Outcomes of Pregnant														
Women Infected with Coronavirus Based on														
Tracking the Results of 90-														PCR-confirmed
Days Data in Hazrat -E-													All	SARS-CoV-2
Rasoul Akram Hospital, Iran University of Medical													All pregnant women	and/or typical radiological
Sciences	2021	Chaichian	DOI: 10.30476/BEAT.2021.90434.1254	Iran	08/03/2020	28/12/2020	Cohort	5	14	14	13	13	hospitalised	features
				·										<u></u>

Clinical Characteristics,	l	İ	I	İ	ı		İ	l)					İ	I
Management, and Short-														
Term Outcome of Neonates													All pregnant	
Born to Mothers with													women	
COVID-19 in a Tertiary Care													delivering during	PCR-confirmed
Hospital in India	2021	Malik	DOI: 10.1093/tropej/fmab054	India	14/04/2020	31/07/2020	Cohort	7	514	514	524	524	study period	SARS-CoV-2
Covid-19 and pregnancy: the														
experience of a tertiary	2024		DOI 10 1515/1 2001 2070		04 /02 /0000	24 /42 /2222		_			25	2.5	All pregnant	PCR-confirmed
maternity hospital	2021	Antsaklis	DOI: 10.1515/jpm-2021-0070	Greece	01/03/2020	31/12/2020	Cohort	5	40	40	35	35	women admitted	SARS-CoV-2
Neonatal Outcomes in														
Pregnant Women Infected with COVID-19 in Babol,														
North of Iran: A													All pregnant	
Retrospective Study with													women admitted	PCR-confirmed
Short-Term Follow-Up	2021	Akbarian-Rad	DOI: 10.1155/2021/9952701	Iran	10/02/2020	20/05/2020	Cohort	5	8	8	8	8	for childbirth	SARS-CoV-2
Maternal-perinatal													All pregnant	
outcomes in pregnant													women	
women with COVID-19 in a													delivering during	PCR-confirmed
level III hospital in Peru	2021	Davila-Aliaga	DOI: 10.17843/rpmesp.2021.381.6358	Peru	01/04/2020	30/06/2020	Cohort	5	43	43	43	43	study period	SARS-CoV-2
Neonatal outcomes of													All pregnant	
pregnant women with													women	DCD C
COVID-19 in a developing	2024	Navak	DOI: 10.1016/j. podress 2021.05.004	India	01/05/2020	20/10/2020	Cohort	-	163	163	100	100	delivering during	PCR-confirmed
country setup  Maternal and Neonatal	2021	Nayak	DOI: 10.1016/j.pedneo.2021.05.004	India	01/05/2020	20/10/2020	Cohort	5	162	162	165	165	study period	SARS-CoV-2
Outcomes of Pregnant													All pregnant	
Women with COVID-19: A													women	
Case–Control Study at a							Case-						delivering during	PCR-confirmed
Tertiary Care Center in India	2021	Tadas	DOI: 10.5005/jp-journals-10006-1850a	India	01/05/2020	31/08/2020	control	7	362	181	362	187	study period	SARS-CoV-2
Pregnancy Outcomes and			121.2										, ,	
SARS-CoV-2 Infection: The														
SpanishObstetric Emergency							Case-						All pregnant	PCR-confirmed
Group Study	2021	Melguizo	DOI: 10.3390/v13050853	Spain	26/02/2020	05/11/2020	control	7	2954	1347	2954	1347	women	SARS-CoV-2
Placental pathology in													All pregnant	
COVID-19 affected pregnant													women	
women: A prospective case-	2024	_	DOI 10 1015/1 1 1 2001 01 000		04 /02 /0000	24 /22 /222	Case-	_	400		400		delivering during	PCR-confirmed
control study	2021	Tasca	DOI: 10.1016/j.placenta.2021.04.002	Italy	01/03/2020	31/08/2020	control	7	128	64	128	64	study period	SARS-CoV-2
Obstetric, maternal, and neonatal outcomesin														PCR-confirmed
COVID-19 compared to														SARS-CoV-2
healthy pregnantwomen in														and/or typical
Iran: a retrospective, case-							Case-						All pregnant	radiological
controlstudy	2021	Taghavi	DOI: 10.1186/s43043-021-00059-2	Iran	01/03/2020	30/11/2020	control	7	110	55	110	55	women admitted	features
Vertical transmission of														
SARS-CoV2 during														
pregnancy: A high-risk													All pregnant	PCR-confirmed
cohort	2021	Maeda	DOI: 10.1002/pd.5980	Brazil	12/04/2020	30/09/2020	Cohort	5	109	109	109	109	women admitted	SARS-CoV-2
Consequences of Early														
Separation of Maternal-														
Newborn Dyadin Neonates														
Born to SARS-CoV-2 Positive													All prognant	BCB confirmed
Mothers:An Observational	2021	Conti	DOI: 10.3390/ijernh18115899	Italy	01/04/2020	18/03/2021	Cohort	6	37	37	37	37	All pregnant	PCR-confirmed
Mothers:An Observational Study	2021	Conti	DOI: 10.3390/ijerph18115899	Italy	01/04/2020	18/03/2021	Cohort	6	37	37	37	37	All pregnant women admitted	PCR-confirmed SARS-CoV-2
Mothers:An Observational Study Perinatal outcome and	2021	Conti	DOI: 10.3390/ijerph18115899	Italy	01/04/2020	18/03/2021	Cohort	6	37	37	37	37		
Mothers:An Observational Study	2021	Conti	DOI: 10.3390/ijerph18115899	Italy	01/04/2020	18/03/2021	Cohort	6	37	37	37	37		
Mothers:An Observational Study Perinatal outcome and possible vertical	2021	Conti	DOI: 10.3390/ijerph18115899	Italy	01/04/2020	18/03/2021	Cohort	6	37	37	37	37		
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus	2021	Conti	DOI: 10.3390/ijerph18115899  DOI: 10.3345/cep.2020.01704	Italy India	01/04/2020	18/03/2021	Cohort	6	37 41	37 41	37 44	37 44	women admitted	SARS-CoV-2
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience													women admitted  All pregnant	SARS-CoV-2 PCR-confirmed
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India The Relationship between Status at Presentation													women admitted  All pregnant	SARS-CoV-2 PCR-confirmed
Mothers:An Observational Study  Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India  The Relationship between Status at Presentation andOutcomes among													All pregnant women admitted	PCR-confirmed SARS-CoV-2
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India The Relationship between Status at Presentation andOutcomes among Pregnant Women with	2021	Sharma	DOI: 10.3345/cep.2020.01704	India	01/04/2020	31/08/2020	Cohort	5	41	41	44	44	women admitted  All pregnant women admitted  All pregnant	PCR-confirmed SARS-COV-2
Mothers:An Observational Study  Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India  The Relationship between Status at Presentation andOutcomes among													All pregnant women admitted  All pregnant women admitted	PCR-confirmed SARS-CoV-2
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India The Relationship between Status at Presentation and Outcomes among Pregnant Women with COVID-19	2021	Sharma	DOI: 10.3345/cep.2020.01704	India	01/04/2020	31/08/2020	Cohort	5	41	41	44	44	All pregnant women admitted  All pregnant women admitted  All pregnant women  All pregnant	PCR-confirmed SARS-COV-2
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India The Relationship between Status at Presentation andOutcomes among Pregnant Women with COVID-19  Association of SARS-CoV-2	2021	Sharma	DOI: 10.3345/cep.2020.01704	India	01/04/2020	31/08/2020	Cohort	5	41	41	44	44	All pregnant women admitted  All pregnant women admitted  All pregnant women  All pregnant women	PCR-confirmed SARS-CoV-2 PCR-confirmed SARS-CoV-2
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India The Relationship between Status at Presentation andOutcomes among Pregnant Women with COVID-19  Association of SARS-COV-2 Test Status and Pregnancy	2021	Sharma	DOI: 10.3345/cep.2020.01704  DOI: 10.1055/s-0040-1712164	India	01/04/2020	31/08/2020	Cohort  Cohort  Case-	5	41	41 55	44 55	<b>44</b> 55	All pregnant women admitted  All pregnant women admitted  All pregnant women  All pregnant women delivering during	PCR-confirmed SARS-CoV-2 PCR-confirmed SARS-CoV-2 PCR-confirmed
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India The Relationship between Status at Presentation andOutcomes among Pregnant Women with COVID-19  Association of SARS-CoV-2 Test Status and Pregnancy Outcomes	2021	Sharma	DOI: 10.3345/cep.2020.01704	India	01/04/2020	31/08/2020	Cohort	5	41	41	44	44	All pregnant women admitted  All pregnant women admitted  All pregnant women  All pregnant women delivering during study period	PCR-confirmed SARS-CoV-2 PCR-confirmed SARS-CoV-2
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India The Relationship between Status at Presentation andOutcomes among Pregnant Women with COVID-19  Association of SARS-CoV-2 Test Status and Pregnancy Outcomes Infants Born to Mothers	2021	Sharma	DOI: 10.3345/cep.2020.01704  DOI: 10.1055/s-0040-1712164	India	01/04/2020	31/08/2020	Cohort  Cohort  Case-	5	41	41 55	44 55	<b>44</b> 55	All pregnant women admitted  All pregnant women All pregnant women All pregnant women delivering during study period All pregnant	PCR-confirmed SARS-CoV-2 PCR-confirmed SARS-CoV-2 PCR-confirmed
Mothers:An Observational Study Perinatal outcome and possible vertical transmission of coronavirus disease 2019: experience from North India The Relationship between Status at Presentation andOutcomes among Pregnant Women with COVID-19  Association of SARS-CoV-2 Test Status and Pregnancy Outcomes	2021	Sharma	DOI: 10.3345/cep.2020.01704  DOI: 10.1055/s-0040-1712164	India	01/04/2020	31/08/2020	Cohort  Cohort  Case-	5	41	41 55	44 55	<b>44</b> 55	All pregnant women admitted  All pregnant women admitted  All pregnant women  All pregnant women delivering during study period	PCR-confirmed SARS-CoV-2 PCR-confirmed SARS-CoV-2 PCR-confirmed

Characteristics and														
outcomes of COVID-19														
pneumonia in pregnancy													AU	PCR-confirmed
compared with infected	2021	Vizheh	DOI: 10.1002/ijgo.13697	to a co	01/03/2020	31/10/2020	Cohort	7	110	110	51	51	All pregnant women admitted	SARS-CoV-2
nonpregnant women	2021	viznen	DOI: 10.1002/IJg0.1369/	Iran	01/03/2020	31/10/2020	Conort	/	110	110	51	51	women admitted	SARS-COV-2
Comparing Infection Profiles														
of Expectant Mothers with COVID-19 and Impacts on													All pregnant	
Maternal and Perinatal													women	
Outcomes between the First													delivering during	PCR-confirmed
Two Waves of the Pandemic	2021	Cunarro-Lopez	DOI: 10.3390/jpm11070599	Spain	01/03/2020	03/11/2020	Cohort	8	1295	1295	1295	1295	study period	SARS-CoV-2
Coronavirus disease 2019 in	2021	Curiarro-Lopez	DOI: 10.3330/jpiii11070333	эрані	01/03/2020	03/11/2020	Conort	8	1293	1293	1233	1233	study period	JANS-COV-2
pregnancy: Maternal and													All pregnant	PCR-confirmed
perinatal outcome	2021	Agarwal	DOI: 10.4103/jehp.jehp 954 20	India	15/04/2020	30/06/2020	Cohort	5	65	65	48	48	women admitted	SARS-CoV-2
COVID-19 infection in	2021	Aguiwai	DOI: 10.4103/jcnp.jcnp_334_20	IIIdid	13/04/2020	30/00/2020	COHOIC		- 03	03	70		women damitted	SANS COV 2
pregnancy: a single center													All pregnant	PCR-confirmed
experience with 75 cases	2021	Cakirca	DOI: 10.5603/GP.a2021.0118	Turkey	01/04/2020	31/08/2020	Cohort	5	75	75	34	34	women admitted	SARS-CoV-2
Maternal and perinatal				,		01,00,101					-			
outcomes of pregnant														
womenwith SARS-CoV-2													All pregnant	
infection at the time of birth													women	
inEngland: national cohort							Case-						delivering	PCR-confirmed
study	2021	Gurol-Urganc	DOI: 10.1016/j.ajog.2021.05.016	England	29/05/2020	31/01/2021	control	7	342080	3527	302011	2555	singletons	SARS-CoV-2
Neonatal outcome following														
maternal infection with														
SARS-CoV-2 in Germany:													All pregnant	
COVID-19-Related Obstetric													women	
and Neonatal Outcome				Germany,									delivering during	PCR-confirmed
Study (CRONOS)	2021	Mand	DOI: 10.1136/archdischild-2021-322100	Austria	03/04/2020	27/11/2020	Cohort	5	435	435	435	435	study period	SARS-CoV-2
Ocular Assessments of a														
Series of													All pregnant	
NewbornsGestationally													women	
Exposed to Maternal COVID-													delivering during	PCR-confirmed
19 Infection	2021	Kiappe	DOI: 10.1001/jamaophthalmol.2021.1088	Brazil	01/04/2020	30/11/2020	Cohort	5	165	165	165	165	study period	SARS-CoV-2
Rooming-in, Breastfeeding													All pregnant	
and Neonatal Follow-up of													women	
Infants Born to Mothers									_		_	l .	delivering during	PCR-confirmed
with COVID-19	2021	Brito	DOI: 10.20344/amp.15441	Portugal	01/04/2020	31/12/2020	Cohort	5	77	77	77	77	study period	SARS-CoV-2