

Appendix 1. Literature Search

Database	Date of literature search	Search strategy	Total amount of articles found via search strategy	Final amount of articles included based on title/abstract/skimming of articles
PubMed	24.07.2020 - 30.07.2020	Covid-19 AND Pregnancy	551	55

Additional literature search was performed in Google Scholar and by checking the included articles' references.

Exclusion criteria: Articles not available in English, articles dealing with animals and not humans.

Appendix 2. Subgroup Analysis In Women With SARS-CoV-2 Antibodies With Previous Symptoms Since December 2019 Compared to Women Without SARS-CoV-2 Antibodies

Characteristics	Women Without antibodies n = 1,285	Women With antibodies n= 14	p-value
Age, median (IQR)	31.5 (28.6, 34.7)	32.8 (30.1, 34.1)	0.6
Blood type, n (%)			
- A	524 (41)	7 (50)	0.5
- B	178 (14)	0 (0)	
- AB	69 (5)	0 (0)	
- O	514 (40)	7 (50)	
Rhesus, n (%)			
- Negative	220 (17)	3 (21)	0.7
- Positive	1,064 (83)	11 (79)	
BMI, median (IQR)	23.0 (20.9, 26.0)	24.0 (22.4, 25.4)	0.6
Smoking, n (%)	43 (3)	0 (0)	0.8
Alcohol, n (%)	21 (2)	1 (7)	0.2
Asthma*, n (%)	94 (7)	2 (14)	>0.9
Other chronic diseases*, n (%)	352 (27)	2 (14)	0.4
Fertility treatment, n (%)	148 (12)	0 (0)	0.4
First-time deliveries, n (%)	696 (54)	7 (50)	0.8
Previous cesarean section, n (%)	102 (8)	2 (14)	0.4
Pregnancy complications, n (%)			
- GDM [†]	73 (6)	0 (0)	> 0.9
- GBS [‡]	41 (3)	0 (0)	> 0.9
- Gestational hypertension	38 (3)	0 (0)	> 0.9
- Preeclampsia	53 (4)	1 (7)	0.4
- PPROM [§]	34 (3)	0 (0)	> 0.9

Obstetric outcomes,			
- Gestational age (days), <i>median (IQR)</i>	281 (273, 287)	278 (271, 286)	0.4
- Preterm birth, <i>n (%)</i>	65 (5)	2 (14)	0.2
- Induced labor, <i>n (%)</i>	263 (22)	2 (17)	> 0.9
- Vaginal delivery, <i>n (%)</i>	1,037 (81)	11 (79)	0.7
- Vacuum delivery, <i>n (%)</i>	129 (10)	1 (7)	> 0.9
- Cesarean section, <i>n (%)</i>	248 (19)	3 (21)	0.7
- <i>Acute</i>	149 (60)	1 (33)	0.6
- <i>Planned</i>	98 (40)	2 (67)	
- Bleeding > 500 ml, <i>n (%)</i>	321 (25)	5 (36)	0.4
- <i>ml, median (IRQ)</i>	800 (669, 1200)	828 (685, 1750)	0.7
- Fever ≥ 38 °C, <i>n (%)</i>	100 (8)	2 (14)	0.3
- Antibiotic during birth, <i>n (%)</i>	451 (35)	8 (57)	0.1
- Hospital admission in days, <i>median</i>	2.0 (1.0-3.0)	3.0 (1.0-4.0)	0.077
- Late pregnancy loss/still birth, <i>n (%)</i>	5 (0)	0	> 0.9
- Live birth, <i>n (%)</i>	1,280 (100)	14 (100)	> 0.9
Any pregnancy complication^{ll}, <i>n (%)</i>	209 (16)	1 (7)	0.7
Any obstetric complication^{nl}, <i>n (%)</i>	626 (49)	10 (71)	0.11
Newborns with serology, <i>n (%)</i>			
- <i>Negative</i>	1128 (100)	2 (22)	
- <i>Positive</i>	3 (0)	7 (78)	< 0.001
Previous Covid-19 symptoms, <i>n (%)</i>	383 (31)	14 (100)	<0.001
SARS-CoV-2 swab, <i>n (%)</i>			
- <i>Negative</i>	1253 (100)	13 (0)	> 0.9
- <i>Positive</i>	1 (0)	0 (0)	
- <i>Inconclusive</i>	2 (0)	0 (0)	

The proportions (%) were calculated of the available information (missing data were excluded).

*Information about asthma was extracted from the personal questionnaire and information about other chronic diseases was extracted from the electronic health record.

^lGDM = gestational diabetes. ^lGBS= group B streptococcus in urine.

[§]PPROM= premature prelabor rupture of membranes.

^{ll} Any pregnancy complications included GDM, GBS, Gestastational hypertension, preeclampsia and PPROM

^{nl} Any obstetric complications included preterm birth, bleeding > 500mL, fever, antibiotic during birth, pregnancy loss /still birth and acute cesarean delivery.

Egerup P, Olsen LF, Christiansen AMH, Westergaard D, Severinsend ER, Hviid KVR, et al. Severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) antibodies at delivery in women, partners, and newborns. *Obstet Gynecol* 2021;137.

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Page 3 of 13

Appendix 3. Subgroup Analysis in Women With SARS-CoV-2 Antibodies With Previous Symptoms Since December 2019 Compared to Women With SARS-CoV-2 Antibodies Without Symptoms

Characteristics	Women with symptoms n = 14	Women without symptoms n= 14	p-value
Age, median (IQR)	32.8 (30.1, 34.1)	31.0 (27.3, 32.1)	0.12
Blood type, n (%)			
- A	7 (50)	10 (71)	0.4
- B	0 (0)	0 (0)	
- AB	0 (0)	0 (0)	
- O	7 (50)	4 (29)	
Rhesus, n (%)			
- Negative	3 (21)	3 (21)	>0.9
- Positive	11 (79)	11 (79)	
BMI, median (IQR)	24.0 (22.4, 25.4)	23.7 (22.8, 26.0)	0.7
Smoking, n (%)	0 (0)	0 (0)	-
Alcohol, n (%)	1 (7)	1 (7)	>0.9
Asthma*, n (%)	2 (14)	0 (0)	-
Other chronic diseases*, n (%)	2 (14)	4 (29)	0.6
Fertility treatment, n (%)	0 (0)	2 (14)	0.5
First-time deliveries, n (%)	7 (50)	10 (71)	0.4
Previous cesarean section, n (%)	2 (14)	1 (7)	>0.9
Pregnancy complications, n (%)			
- GDM [†]	0 (0)	1 (7)	> 0.9
- GBS [‡]	0 (0)	1 (7)	> 0.9
- Gestational hypertension	0 (0)	1 (7)	> 0.9
- Preeclampsia	1 (7)	0 (0)	> 0.9
- PPROM [§]	0 (0)	0 (0)	-

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Obstetric outcomes,			
- Gestational age (days), median (IQR)	278 (271, 286)	284 (279, 288)	0.2
- Preterm birth, n (%)	2 (14)	0 (0)	0.5
- Induced labor, n (%)	2 (17)	3 (23)	> 0.9
- Vaginal delivery, n (%)	11 (79)	11 (79)	> 0.9
- Vacuum delivery, n (%)	1 (7)	5 (36)	0.2
- Cesarean section, n (%)	3 (21)	3 (21)	> 0.9
- <i>Acute</i>	1 (33)	2 (67)	> 0.9
- <i>Planned</i>	2 (67)	1 (33)	
- Bleeding > 500 ml, n (%)	5 (36)	2 (14)	0.4
- Fever ≥ 38 °C, n (%)	2 (14)	2 (14)	> 0.9
- Antibiotic during birth, n (%)	8 (57)	5 (36)	0.4
- Hospital admission in days, median	2.5 (1.0-4.0)	1.0 (1.0-2.0)	0.4
- Late pregnancy loss/still birth, n (%)	0 (0)	0 (0)	-
- Live birth, n (%)	14 (100)	14 (100)	1
Any pregnancy complication, n (%)	1 (7)	3 (21)	0.6
Any obstetric complication[¶], n (%)	10 (71)	6 (43)	0.3
Newborns with serology, n (%)			
- <i>Negative</i>	2 (22)	5 (42)	
- <i>Positive</i>	7 (78)	7 (58)	0.6
SARS-CoV-2 swab, n (%)			
- <i>Negative</i>	13 (100)	13 (100)	
- <i>Positive</i>	0 (0)	0 (0)	
- <i>Inconclusive</i>	0 (0)	0 (0)	

The proportions (%) were calculated of the available information (missing data were excluded).

*Information about asthma was extracted from the personal questionnaire and information about other chronic diseases was extracted from the electronic health record.

[†]GDM = gestational diabetes. [‡]GBS= group B streptococcus in urine.

[§]PPROM= premature prelabor rupture of membranes.

^{||} Any pregnancy complications included GDM, GBS, Gestastational hypertension, preeclampsia and PPROM

[¶] Any obstetric complications included preterm birth, bleeding > 500mL, fever, antibiotic during birth, pregnancy loss /still birth and acute cesarean delivery.

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Page 5 of 13

Appendix 4. Subgroup Analysis in Women With SARS-CoV-2 IgG Antibodies Compared to Women Without SARS-CoV-2 Antibodies

Characteristics	Women without antibodies n = 1,285	Women with IgG antibodies n= 20	p-value
Age, median (IQR)	31.5 (28.6, 34.7)	31.2 (28.2, 33.4)	0.5
Blood type, n (%)			
- A	524 (41)	11 (55)	0.2
- B	178 (14)	0 (0)	
- AB	69 (5)	0 (0)	
- O	514 (40)	9 (45)	
Rhesus, n (%)			
- Negative	220 (17)	4 (20)	0.8
- Positive	1,064 (83)	16 (80)	
BMI, median (IQR)	23.0 (20.9, 26.0)	24.4 (22.8, 26.6)	0.082
Smoking, n (%)	43 (3)	0 (0)	0.9
Alcohol, n (%)	21 (2)	2 (10)	0.047
Asthma*, n (%)	94 (7)	2 (10)	>0.9
Other chronic diseases*, n (%)	352 (27)	4 (20)	0.6
Fertility treatment, n (%)	148 (12)	1 (5)	0.7
First-time deliveries, n (%)	696 (54)	12 (60)	0.7
Previous cesarean section, n (%)	102 (8)	1 (5)	>0.9
Pregnancy complications, n (%)			
- GDM [†]	73 (6)	1 (5)	> 0.9
- GBS [‡]	41 (3)	1 (5)	0.5
- Gestational hypertension	38 (3)	0 (0)	> 0.9
- Preeclampsia	53 (4)	1 (5)	0.6
- PPROM [§]	34 (3)	0 (0)	> 0.9

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Obstetric outcomes,			
- Gestational age (days), median (IQR)	281 (273, 287)	282 (277, 286)	0.5
- Preterm birth, n (%)	65 (5)	2 (10)	0.3
- Induced labor, n (%)	263 (22)	4 (22)	> 0.9
- Vaginal delivery, n (%)	1,037 (81)	16 (80)	> 0.9
- Vacuum delivery, n (%)	129 (10)	3 (15)	0.4
- Cesarean section, n (%)	248 (19)	4 (20)	> 0.9
- Acute	149 (60)	2 (50)	0.7
- Planned	98 (40)	2 (50)	
- Bleeding > 500 ml, n (%)	321 (25)	4 (20)	0.8
- ml, median (IRQ)	800 (669, 1200)	668 (625, 1080)	0.4
- Fever \geq 38 °C, n (%)	100 (8)	3 (15)	0.2
- Antibiotic during birth, n (%)	451 (35)	8 (40)	0.6
- Hospital admission in days, median	2.0 (1.0-3.0)	2.0 (1.0-3.5)	0.7
- Late pregnancy loss/still birth, n (%)	5 (0)	0	> 0.9
- Live birth, n (%)	1,280 (100)	20 (100)	> 0.9
Any pregnancy complication^{II}, n (%)	209 (16)	3 (15)	> 0.9
Any obstetric complication^{III}, n (%)	626 (49)	11 (55)	0.7
Newborns with serology, n (%)			
- Negative	1128 (100)	1 (7)	
- Positive	3 (0)	14 (93)	< 0.001
Previous Covid-19 symptoms, n (%)	383 (31)	10 (50)	0.089
SARS-CoV-2 swab, n (%)			
- Negative	1253 (100)	19 (100)	> 0.9
- Positive	1 (0)	0 (0)	
- Inconclusive	2 (0)	0 (0)	

The proportions (%) were calculated of the available information (missing data were excluded).

*Information about asthma was extracted from the personal questionnaire and information about other chronic diseases was extracted from the electronic health record.

^IGDM = gestational diabetes. ^IGBS= group B streptococcus in urine.

[§]PPROM= premature prelabor rupture of membranes.

^{II} Any pregnancy complications included GDM, GBS, Gestastational hypertension, preeclampsia and PPRM

^{III} Any obstetric complications included preterm birth, bleeding > 500mL, fever, antibiotic during birth, pregnancy loss /still birth and acute cesarean delivery.

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Page 7 of 13

Appendix 5. Neonatal Outcomes in Newborns According to SARS-CoV-2 Antibodies in the Mothers

Characteristics	Mothers without antibodies n = 1,145	Mothers with antibodies n= 21	p-value
Gestational age at birth (days), median (IQR)	281 (273, 287)	284 (278, 288)	0.3
Premature babies, n (%)	59 (5)	1 (5)	> 0.9
Meconium-stained amniotic fluid, n (%)	184 (16)	3 (14)	> 0.9
Sex, n (%)			
- Male	591 (52)	12 (57)	0.7
- Female	554 (48)	9 (43)	
Birth weight, median (IQR)	3528 (3212, 3860)	3620 (3444, 3920)	0.086
Low weight babies < 2500g, n (%)	45 (4)	0 (0)	> 0.9
Length in cm, median (IQR)	52.0 (50.0, 53.0)	52.00 (51.0, 53.0)	0.2
Head circumference in cm, median (IQR)	35.0 (34.0, 36.0)	35.0 (34.0, 37.0)	0.045*
Abdominal circumference in cm, median (IQR)	33.0 (32.0, 34.0)	33.0 (32.9, 35.1)	0.2
APGAR-1, median (IQR)	10.0 (9.0, 10.0)	10.0 (9.0, 10.0)	0.2
APGAR-5, median (IQR)	10.0 (9.0, 10.0)	10.0 (9.0, 10.0)	0.4
APGAR-5 < 7, median (IQR)	4 (0)	0 (0)	>0.9
Arterial pH, median (IQR)	7.23 (7.17, 7.29)	7.23 (7.19, 7.24)	0.6
Arterial pH < 7.0, n (%)	8 (1)	0 (0)	>0.9
Base excess, median (IQR)	-4.5 (-6.9, -2.4)	-5.5 (-7.1, -4.2)	0.14
CPAP, n (%)	157 (14)	3 (14)	> 0.9

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Malformation, n (%)	21 (2)	0 (0)	> 0.9
Hospital admission in days, median (IQR)	2.00 (1.00, 3.00)	2.00 (1.00, 3.00)	0.7
Neonatal admission, n (%)	127 (11)	3 (14)	0.7
Any neonatal complications¹, n (%)	251 (22)	5 (24)	0.8
Alive at discharge, n (%)			
- Yes	1138 (100)	21 (100)	> 0.9
- No	2 (0)	0 (0)	
Newborns with serology, n (%)			
- Negative	1142 (100)	7 (33)	<0.001
- Positive	3 (0)	14 (67)	

The proportions (%) were calculated of the available information (missing data were excluded).

*Taking the gestational age into account for the size of the child in the subgroup analysis, the result was no longer significant ($p=0.11$).

¹Any neonatal complications included premature birth, low birth weight, APGAR-5 < 7, arterial pH < 7, malformations, CPAP and neonatal admission.

Appendix 6. Neonatal Outcomes in Newborns According to SARS-CoV-2 Antibodies in the Parents

Characteristics	Two parents without antibodies n = 1,144	One or two parents with antibodies n= 42	p-value
Gestational age at birth (days), median (IQR)	281 (273, 287)	284 (276, 288)	0.4
Premature babies, n (%)	60 (5)	1 (2)	0.7
Meconium-stained amniotic fluid, n (%)	183 (16)	7 (17)	0.8
Sex, n (%)			
- Male	590 (52)	27 (64)	0.12
- Female	554 (48)	15 (36)	
Birth weight, median (IQR)	3528 (3206, 3860)	3585 (3346, 3846)	0.2
Low weight babies < 2500g, n (%)	46 (4)	0 (0)	0.4
Length in cm, median (IQR)	52.0 (50.0, 53.0)	52.00 (51.0, 53.4)	0.11
Head circumference in cm, median (IQR)	35.0 (34.0, 36.0)	35.0 (34.0, 35.8)	0.075
Abdominal circumference in cm, median (IQR)	33.0 (32.0, 34.0)	33.0 (32.0, 34.0)	0.9
APGAR-1, median (IQR)	10.0 (9.0, 10.0)	10.0 (9.0, 10.0)	0.6
APGAR-5, median (IQR)	10.0 (9.0, 10.0)	10.0 (9.0, 10.0)	0.9
APGAR-5 < 7, median (IQR)	4 (0)	0 (0)	>0.9
Arterial pH, median (IQR)	7.23 (7.17, 7.29)	7.23 (7.20, 7.29)	0.6
Arterial pH < 7.0, n (%)	9 (1)	0 (0)	>0.9
Base excess, median (IQR)	-4.5 (-6.9, -2.4)	-5.0 (-6.9, -2.4)	0.8
CPAP, n (%)	157 (14)	5 (12)	>0.9
Malformation, n (%)	21 (2)	1 (2)	0.6

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Hospital admission in days, median (IQR)	2.0 (1.0, 3.0)	1.0 (1.0, 3.0)	>0.9
Neonatal admission, n (%)	127 (11)	5 (12)	0.8
Any neonatal complications*, n (%)	249 (22)	10 (24)	0.7
Alive at discharge, n (%)			
- Yes	1132 (100)	42 (100)	>0.9
- No	2 (0)	0 (0)	
Mothers with serology, n (%)			
- Negative	1126 (100)	19 (48)	<0.001
- Positive	0 (0)	21 (52)	
Newborns with serology, n (%)			
- Negative	1141 (100)	28 (67)	<0.001
- Positive	3 (0)	14 (33)	

The proportions (%) were calculated of the available information (missing data were excluded).

*Any neonatal complications included premature birth, low birth weight, APGAR-5 < 7, arterial pH < 7, malformations, CPAP and neonatal admission.

Appendix 7. Patterns of SARS-CoV-2 Infection in Trios of Mother, Partner and Newborn

MOTHER	PARTNER	NEWBORN	n
Negative	Negative	Negative	1010
Negative	Negative	NA	117
Negative	NA	Negative	113
Negative	NA	NA	35
Negative	Positive	Negative	19
NA	NA	Negative	18
NA	Negative	Negative	13
Positive	Negative	Positive	7
Positive	Positive	Positive	6
Positive	Negative	Negative	5
Positive	Negative	NA	5
Negative	Positive	NA	4
Negative	Negative	Positive	3
NA	Negative	NA	3
Positive	Positive	NA	2
NA	Positive	Negative	2
Positive	Positive	Negative	1
Positive	NA	Negative	1
Positive	NA	Positive	1

NA: data not available

Appendix 8. Phi Correlations Between Family Members

Person	Person	Phi correlation (95% CI)
Mother	Partner	0.29 (0.13-0.45)
Mother	Newborn	0.74 (0.55-0.88)
Partner	Newborn	0.27 (0.09-0.44)