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Prepared by the ESHRE COVID-19 working group

Collection of data on ART pregnancies impacted by COVID-19

Report 1.2



The Covid-19 pandemic largely impacted on ART services during the spring 2020, with European ART centres closing or reducing their activities for an average of 49 days between 1 March and 1 June 2020 (Vermeulen, et al., 2020).

In its statements for phase 1 – "Guidance on fertility services during pandèmic", ESHRE recommended that assisted reproduction treatments should not be started to, among other reasons, avoid potential SARS-CoV-2 related complications during pregnancy (ESHRE statement April 2020). Although data have since been published on spontaneous pregnancies in women affected by COVID-19 disease (Delahoy et al, 2020), the effect of SARS-CoV-2 infection on pregnancies resulting from assisted reproduction is still unclear.

The possible effects of maternal SARS-CoV-2 infection on pregnancies resulting from assisted reproduction are an important piece of information for patient counseling. An ESHRE call for submission of known cases of SARS-CoV-2 infection in women pregnant from assisted reproduction was therefore launched in May 2020 and repeated through monthly mailings to the ESHRE membership. We here present the up to date collated information and wish to thank all practitioners that have taken time to share the data and contribute to this emerging evidence aimed at improving counselling for patients undergoing ART during the pandemic.

Data collection

Pregnancy specific data were collected through an online form, available via www.eshre.eu/covid1g/survey



The questionnaire consists of 4 sections:

- Background information, including contact information of the person submitting the case
- Information on the COVID-19 infection
- Information on the pregnancy
- Information on obstetric and neonatal outcomes

In total, the questionnaire includes 21 questions (see ANNEX 1).

The collection of data is ongoing and we encourage practitioners globally to submit their cases via <u>www.eshre.eu/covid19/survey</u>

Only through this global collaboration we can answer important questions related to the impact of COVID 19 disease on patients and their pregnancies established after ART therapy. To paraphrase a famous American President it is time to ask ourselves "What can we all do for ESHRE and our community and help to realize what ESHRE can do for us all."

<u>Results (dd 10/06/2021)</u>

Only entries with information on country and reporting a confirmed (or clinically based strong suspicion of) COVID-19 infection in the patient were considered for inclusion (see Figure 1).

These entries were confirmed by contacting the data submitter with a summary of the reported case and requesting validation of the case (see Figure 2).

The data analysis and this report will be updated no later than 15/09/2021

Figure 1. World map with indication (in green) of countries were at least 1 case was reported and validated



Figure 2. Flowchart of case validation



¹Entries with at least information on country; a positive reply on the first case-related question "Was the COVID-19 infection in the patient confirmed with laboratory tests?"; and in which a pregnancy was established

² Exclusion criteria: cases with incomplete data on delivery (6) or that could (not yet) be validated (52)

References

ESHRE, ART and COVID-19. A Statement from ESHRE. Phase 1: ESHRE Guidance on Fertility Services during pandemic. (1 April 2020). Available through <u>https://www.eshre.eu/Press-Room/ESHRE-News#COVID19_April2</u>

ESHRE COVID-19 working group, et al. A picture of medically assisted reproduction activities during the COVID-19 pandemic in Europe. HR open. 2020;2020b: hoaa035. https://doi.org/10.1093/hropen/hoaa035

Delahoy MJ, Whitaker M, O'Halloran A, et al. Characteristics and Maternal and Birth Outcomes of Hospitalized Pregnant Women with Laboratory-Confirmed COVID-19 — COVID-NET, 13 States, March 1–August 22, 2020. MMWR Morb Mortal Wkly Rep 2020;69:1347–1354. DOI: http://dx.doi.org/10.15585/mmwr.mm6938e1external icon.

ANNEX 1: Questionnaire

Background information

1. In what country do you work?

2.	Are yo	u reporting	a case	from a	private	or a	public	centre?

Public centre Private centre

3. Your profession is:

Gynaecologist ART clinician Nurse Embryologist Other, please specify:

4. Please enter a patient reference number from your clinic

The patient reference number can be used for submitting further details of the case at a later stage via email to nathalie@eshre.eu. Please note that this reference number should not contain any patient identifiers.

5. Please add your email address so we can contact you for further updates on this case, or to verify the provided information. We will not consider cases for which we cannot double check the information.

Information on the COVID-19 infection

6. Was the COVID-19 infection in the patient confirmed with laboratory tests?

- Yes, by RT-PCR
- Yes, by antibody test

No, but there is a strong suspicion of a COVID-19 infection

No

7. At what stage of the pregnancy did the patient have symptoms and was tested?

During the MAR treatment (including 15 days after embryo transfer)

First trimester

Second trimester

Third trimester

At delivery

8. Which symptoms did the patient have (you can tick more than 1 answer)?

- High fever (>37,5°C)
- Cough
 - Pneumonia
 - Anosmia (no smell)

Ageusia (Loss of taste)
Gastrointestinal symptoms
No symptoms
Other respiratory symptoms, please specify

<u>9.</u> Was the patient hospitalized?

No Yes, in a general ward

Yes, with respiratory support

- Yes, in the intensive care unit
- Yes, in the intensive care unit with respiratory support

10. Are you aware of antiviral treatments used?

- I do not have this information
- Yes, please specify

11. Did the patient recover?

- No, the patient died
- No, the patient is/was still in recovery

Yes, if she was hospitalized, please specify the duration of hospitalization: days

Information on the pregnancy

12. How did the patient achieve pregnancy?

Ovulation induction
IUI
IVF
ICSI
Donor IUI
Donor sperm IVF/ICSI
Oocyte donation
FER (frozen embryo replacement)
FOR (frozen oocyte replacement)
PGT-A
PGT-M
PGT-SR
Surrogacy
Embryo donation

Information on obstetric and neonatal outcomes

13. Please provide any relevant medical background history for the patient (what diseases did she suffer from?)

14. Where there any pregnancy complications (please tick all answers relevant)

- There were no pregnancy complications
- Miscarriage
- Ectopic pregnancy
- Excessive bleeding
- Pre-eclampsia
- Intrauterine growth restriction

Stillbirth
Preterm birth (< 37 weeks)
Very preterm birth (< 32 weeks)
Extremely preterm birth (< 28 weeks)
Maternal death
Other, please specify

15. What was the mode of delivery?

Vaginal
Emergency C-section
Scheduled C-section

16. What was the gestational age at delivery (in weeks)?

17. Where there any neonatal complications? (please tick all answers relevant)

There were no neonatal complications Respiratory symptoms Fever

Other, please specify

18. What was the birth weight of the newborn?

Normal (> 2500g)
Low (< 2500g)
Very low (< 1500g)
Extremely low (< 1000g)

19. What were the APGAR scores?

At 1 minute: At 5 minutes

20. Was the COVID-19 infection tested in the newborn?

RT-PCR test		Positive test result
		Negative test result
		Not tested
IgM antibody test		Positive test result
		Negative test result
		Not tested
IgG antibody test		Positive test result
		Negative test result
		Not tested

Please comment or provide further details:

21. Please make any further comments with regards to this case