

Supplementary materials (Suppl. Table 1 and Suppl. Table 2)

Suppl. Table 1. Information on patient, tissue type, data of death, diagnosis at admission and retrospective diagnosis

Patient # Sample # Tissue Date of death	Interval of storage at –80 °C before second RNA extraction	Patient age	Diagnosis at admission	Retrospective diagnosis
I T1–T4 Lung, bronchi July, 2020	2 years and 8 months (32 months)	29	Acute bilateral viral pneumonia in lower lobe. Type 2 respiratory failure. COVID-19? (not identified). Moderate anemia. Gestational edema-proteinuria-hypertension (GEPH). Pregnancy 33 weeks. Myopic astigmatism.	Posthumous diagnosis: Community-acquired bilateral interstitial pneumonia (CAP). Toxic alveolitis. Type 3 respiratory failure. COVID-19? (not identified). Bilateral spontaneous pneumothorax. Bülau-Drain chest drainage. Concomitant diagnosis: Mild anemia. Background: Late postpartum postoperative period – 4 days. Threatened miscarriage. Preterm premature rupture of the membranes (PPROM). Meconium aspiration syndrome. Lower-segment transverse cesarean section.
II T5–T6 Lung, trachea July, 2020	2 years and 8 months (32 months)	36	Bilateral viral pneumonia. Type 3 respiratory failure. COVID-19? (not identified). “Transverse Lie”. Multiparous. Class III obesity. Moderate anemia. Bad Obstetric History (BOH). Pregnancy 30–31 weeks.	Posthumous diagnosis: Community-acquired bilateral interstitial pneumonia (CAP). Toxic alveolitis. Type 3 respiratory failure. COVID-19? (not identified). Differential diagnosis: Sepsis. Multiple organ dysfunction syndrome (MODS), cardiovascular and respiratory failure. Concomitant diagnosis: Mild anemia. Class III obesity. Bad Obstetric History (BOH). Background: Late postpartum postoperative period – 10 days. Threatened miscarriage. Preterm premature rupture of the membranes (PPROM). Meconium aspiration syndrome. “Transverse Lie.” Lower-segment transverse cesarean section.
III T7–T11 Lung, bronchi, trachea Aug, 2020	2 years and 7 months (31 months)	37	Bilateral pneumonia. Type 1–2 respiratory failure. Intrauterine insemination (IUI). Uterine scare after second cesarean section. Infertility anamnesis. Abnormal placentation. Bad Obstetric History (BOH).	Posthumous diagnosis: Severe community-acquired bilateral interstitial pneumonia (CAP). Toxic alveolitis. Type 3 respiratory failure. COVID-19? (not identified). Acute respiratory distress syndrome (ARDS). Differential diagnosis: Acute cardiopulmonary failure. Severe sepsis. Septic shock. Multiple organ dysfunction syndrome (MODS). Concomitant diagnosis: Mild anemia. Bad Obstetric History (BOH). Background: Late postpartum postoperative period – 23 days. Third premature birth at 27 weeks. Placental abruption. Uterine scare after second cesarean

			Symptoms at admission: Cough or difficulty in breathing, shortness of breath, dry cough, fever up to 38 °C, fourth day of illness. Pregnancy 26 weeks. Negative PCR test for COVID-19.	section. Infertility anamnesis. Intrauterine insemination (IUI). Abnormal placentation. Bad Obstetric History (BOH). Lower-segment transverse cesarean section. Renal replacement therapy, 7 sessions.
IV T12–T16 Lung, bronchi, trachea Aug, 2020	2 years and 7 months (31 months)	34	Community-acquired bilateral pneumonia (CAP) in lower lobe. Type 3 respiratory failure. Pregnancy 26 weeks. COVID-19? (not identified).	Posthumous diagnosis: Community-acquired bilateral interstitial pneumonia (CAP). COVID-19? (not identified). Differential diagnosis: Severe sepsis. Multiple organ dysfunction syndrome (MODS), cardiovascular and respiratory failure. Concomitant diagnosis: Mild anemia. Bad Obstetric History (BOH). Background: Postoperative period – 14 days. Premature birth at 29 week. Placental abruption. Placental insufficiency. Low water. A double nuchal cord. Renal replacement therapy, 5 sessions.
V T17–T21 Lung, bronchi, trachea Aug, 2020	2 years and 7 months (31 months)	32	Bilateral viral pneumonia. Type 3 respiratory failure. Mild anemia. Pregnancy 31–32 weeks. COVID-19? (not identified).	Posthumous diagnosis: Severe community-acquired bilateral interstitial pneumonia (CAP). COVID-19? (not identified). Type 3 respiratory failure. Acute respiratory distress syndrome (ARDS). Complications: Acute cardiopulmonary failure. Severe sepsis. Multiple organ dysfunction syndrome (MODS). Concomitant diagnosis: Mild anemia. Background: Premature birth at 31 weeks. Placental abruption. Preterm premature rupture of the membranes (PPROM). Meconium aspiration syndrome. Renal replacement therapy, 5 sessions.
VI T22–T24 Lung, trachea July, 2021	1 year and 8 months (20 months)	41	Symptoms at admission: Nausea and Vomiting 2–3 times per days. General condition is satisfactory.	Not available
VII T25–T31 Lung, bronchi, trachea, rectal swab Aug, 2021	1 year and 8 months (20 months)	30	Not available	Not available

VIII T32–T38 Lung, bronchi, trachea, rectal swab, postmortem nasopharyngeal swab Dec, 2022	2 months	32	Not available	Not available
--	----------	----	---------------	---------------

Suppl. Table 2. Average Ct for the samples 2020 using Sarbeco/HKU primers and for the samples 2020–2022 using “Sarbeco/SARS-CoV-2 Screen kit”

Patient #	Sample #	Tissue type	Material type	Sarbeco primers, Mean Ct, gene <i>E</i>		HKU primers, Mean Ct, gene <i>N</i>		“Sarbeco/SARS-CoV-2 Screen kit”, Mean Ct			
				RNA extracted:				gene <i>N</i>	reference gene <i>RPS23S</i>	gene <i>N</i>	reference gene <i>RPS23S</i>
				with TRIzol	with QIAamp	with TRIzol	with QIAamp				
I	T1	lung (left)	washout	26.0	31.4	27.0	31.1	22.5	23.0	34.8	25.2
	T2	bronchi (left)	washout	31.1	41.1	32.3	42.0	29.0	21.9	33.5	25.6
	T3	lung (left)	tissue cut	30.0	33.0	33.0	35.4	30.3	21.6	36.4	26.0
	T4	bronchi (bifurcation)	tissue cut (dry piece)	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	23.0	Undetermined	23.4
II	T5	lung (left)	tissue cut	38.0	Undetermined	36.0	40.0	32.3	31.3	38.0	36.0
	T6	trachea	tissue cut	35.0	Undetermined	35.1	38.1	34.0	22.5	34.0	34.9
III	T7	trachea	tissue cut	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	25.4	Undetermined	25.1
	T8	bronchi (right)	tissue cut (dry piece)	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	23.6	Undetermined	25.7
	T9	lung (left)	tissue cut	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	26.3	Undetermined	27.0
	T10	bronchi (left)	tissue cut	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	25.1	Undetermined	24.3
	T11	lung (right)	tissue cut	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	26.5	Undetermined	27.7

IV	T12	trachea	tissue cut	38.7	Undetermined	38.1	38.1	37.0	23.1	39.9	26.9
	T13	lung (right)	tissue cut	Undetermined	Undetermined	39.0	39.0	34.0	25.1	36.6	25.6
	T14	lung	tissue cut (dry piece)	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	25.1	Undetermined	26.2
	T15	lung	washout	36.1	36.1	33.8	33.8	30.0	23.7	33.9	23.0
	T16	bronchi	tissue cut	Undetermined	Undetermined	37.0	37.0	34.4	25.9	36.6	26.3
V	T17	trachea	tissue cut (dry piece)	Undetermined	Undetermined	Undetermined	Undetermined	Undetermined	23.8	39.9	25.4
	T18	lung (right)	tissue cut	35.7	Undetermined	32.2	33.0	33.5	28.8	31.3	27.6
	T19	lung (left)	tissue cut	Undetermined	Undetermined	39.0	Undetermined	36.4	25.8	33.9	26.5
	T20	bronchi (left)	tissue cut	Undetermined	Undetermined	35.7	36.3	39.0	23.9	30.8	25.1
	T21	lung (left)	tissue cut (dry piece)	Undetermined	Undetermined	Undetermined	Undetermined	38.9	20.2	Undetermined	25.1
VI	T22	lung	tissue cut	Not available	Not available	Not available	Not available	35.5	24.8	35.7	22.5
	T23	bronchi	tissue cut	Not available	Not available	Not available	Not available	30.2	25.1	Undetermined	29.6
	T24	trachea	tissue cut	Not available	Not available	Not available	Not available	33.9	26.5	31.4	24.1
VII	T25	trachea	tissue cut	Not available	Not available	Not available	Not available	24.7	25.4	24.9	26.0
	T26	bronchi (right)	tissue cut	Not available	Not available	Not available	Not available	24.0	26.5	26.2	28.0
	T27	bronchi (left)	tissue cut	Not available	Not available	Not available	Not available	25.4	27.0	24.4	28.3
	T28	lung (right)	tissue cut	Not available	Not available	Not available	Not available	30.1	29.6	31.6	29.9
	T29	lung (left)	tissue cut	Not available	Not available	Not available	Not available	33.8	29.9	30.0	30.6
	T30	trachea	washout	Not available	Not available	Not available	Not available	23.1	27.0	24.7	26.2
	T31	rectum	washout	Not available	Not available	Not available	Not available	Undetermined	34.8	Undetermined	36.1
VIII	T32	nasopharynx	washout	Not available	Not available	Not available	Not available	Undetermined	29.2	Undetermined	26.9
	T33	rectum	washout	Not available	Not available	Not available	Not available	Undetermined	30.0	Undetermined	32.1
	T34	trachea	tissue cut	Not available	Not available	Not available	Not available	Undetermined	37.1	Undetermined	38.4
	T35	lung (right)	tissue cut	Not available	Not available	Not available	Not available	Undetermined	23.6	Undetermined	22.8
	T36	bronchi (left)	tissue cut	Not available	Not available	Not available	Not available	Undetermined	22.5	Undetermined	24.1
	T37	bronchi (right)	tissue cut	Not available	Not available	Not available	Not available	Undetermined	29.6	Undetermined	27.7
	T38	bronchi (left)	tissue cut	Not available	Not available	Not available	Not available	Undetermined	24.1	Undetermined	23.5