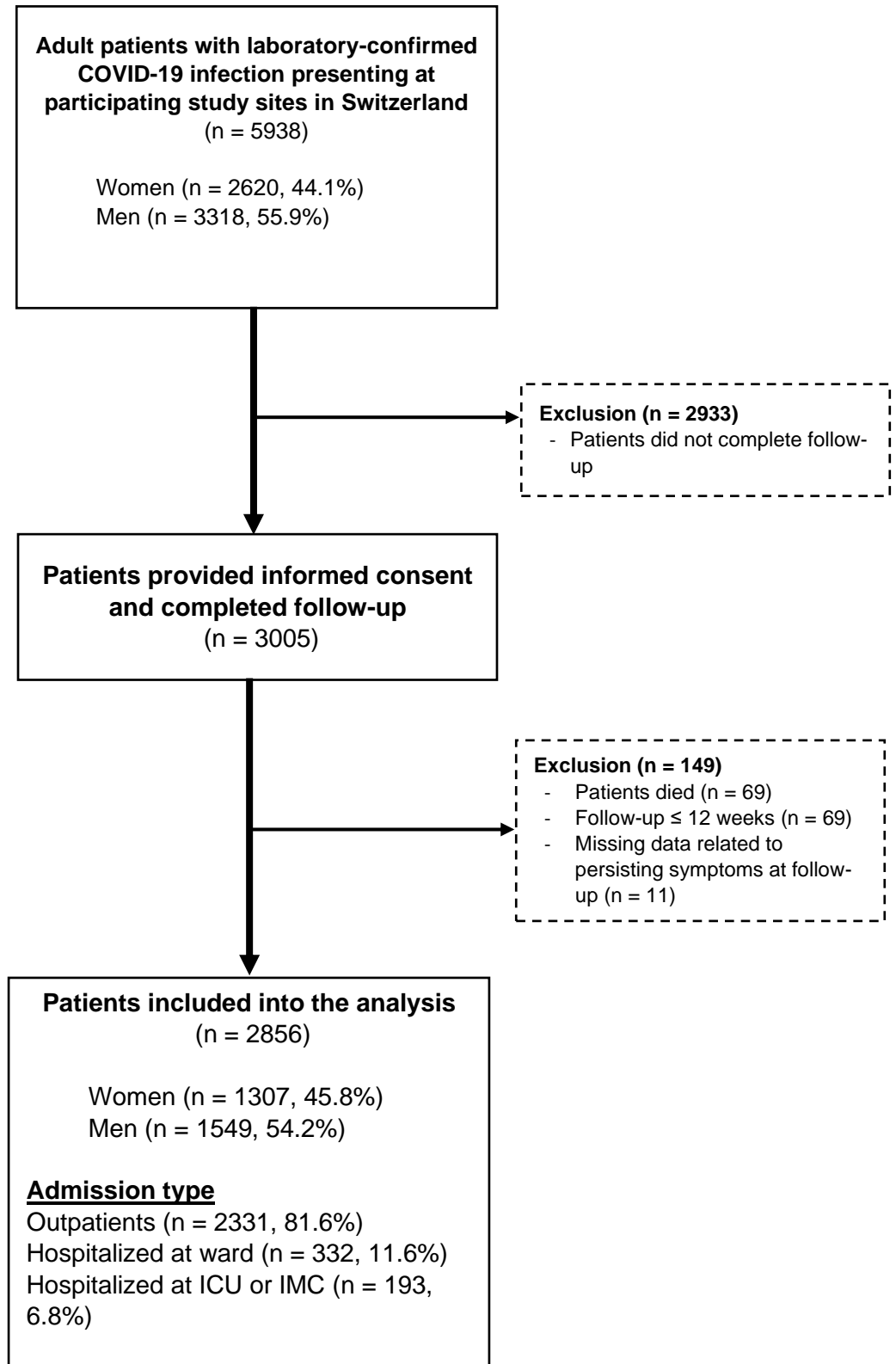


## **Supplementary Materials**

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**S 1:** Flowchart depicting patient selection. ICU, intensive care unit; IMC, intermediate care unit.





**S 3:** Full prediction model for the occurrence of PASC in outpatients. Risk ratios (RR) and 95% confidence intervals (CI) are depicted. The following independent variables were included in the analysis: biological sex, gender score (Model 1) or single features of the gender score (Model 2), age, acute COVID-19 symptoms, pre-existing comorbidities, prior medications, and cardiovascular risk factors. NS = not significant.

Factors	Bivariate analysis		Model 1 (n=2158)		Model 2 (n=2298)	
	Crude RR (95%CI)	p-value	Adjusted RR (95%CI)	p-value	Adjusted RR (95%CI)	p-value
Age (years)	1.003 (1.00, 1.01)	0.212	1.00 (0.99, 1.004)	0.896	1.00 (0.99, 1.01)	0.464
Female sex	1.59 (1.41, 1.79)	<0.001	1.33 (1.16, 1.53)	<0.001	0.96 (0.74, 1.25)	0.763
Gender score (0=Masculine; 100=Feminine) x 10 scores	1.05 (1.03, 1.07)	<0.001	1.00 (0.97, 1.02)	0.959		
<b>CV risk factors</b>						
Obesity (BMI≥30 kg/m <sup>2</sup> )	1.80 (1.42, 2.28)	<0.001	1.34 (1.16, 1.54)	<0.001	1.25 (1.08, 1.44)	0.002
<b>Pre-existing comorbidities</b>						
Mental disorder	1.77 (1.40, 2.23)	<0.001	1.35 (1.03, 1.76)	0.027	1.28 (0.99, 1.64)	0.056
Autoimmune/Rheumatoid disease	1.78 (1.50, 2.13)	<0.001	1.35 (1.12, 1.64)	0.002	1.36 (1.14, 1.63)	0.001
<b>Medications before COVID-19</b>						
Cardiovascular drugs	1.21 (1.02, 1.43)	0.028		NS		NS
Asthma treatment	1.62 (1.29, 2.02)	<0.001		NS		NS
Analgetics	1.47 (1.25, 1.73)	<0.001		NS		NS
Immunosuppressive medication	1.71 (1.27, 2.31)	<0.001		NS		NS
Antidepressants	1.64 (1.26, 2.12)	<0.001		NS		NS
Thyroid hormones	1.75 (1.38, 2.23)	<0.001		NS		NS
<b>Symptoms at presentation for acute COVID-19</b>						
Anosmia/dysosmia	1.94 (1.70, 2.22)	<0.001	1.74 (1.52, 2.00)	<0.001	1.69 (1.48, 1.93)	<0.001
Gastrointestinal symptoms	1.76 (1.57, 1.99)	<0.001	1.32 (1.16, 1.50)	<0.001	1.33 (1.18, 1.50)	<0.001
Dyspnea	2.13 (1.91, 2.38)	<0.001	1.58 (1.41, 1.78)	<0.001	1.60 (1.43, 1.80)	<0.001
Cough	1.35 (1.20, 1.51)	<0.001	1.12 (0.99, 1.26)	0.062	1.12 (1.00, 1.26)	0.055
Fatigue	1.83 (1.55, 2.16)	<0.001	1.44 (1.22, 1.70)	<0.001	1.44 (1.23, 1.70)	<0.001
<b>Sociocultural-and economic variables</b>						
<b>Parenthood</b>						
Two-parent family	1.00 (Reference)				1.00 (Reference)	
Single-parent family	1.33 (1.10, 1.61)	0.003			1.21 (1.00, 1.46)	0.050
No children	1.06 (0.94, 1.20)	0.336			1.16 (1.01, 1.33)	0.033
<b>Education</b>						
University or technical college degree	1.00 (Reference)				1.00 (Reference)	
Non-University or technical college degree	1.23 (1.09, 1.39)	0.001			1.16 (1.03, 1.30)	0.011
Average domestic stress level	1.08 (1.05, 1.11)	<0.001			1.04 (1.01, 1.06)	0.003
<b>Interaction terms</b>						
Female:Lives alone					1.91 (1.29, 2.83)	0.001
Male:Earns highest income in household					0.76 (0.60, 0.97)	0.030
Male:Lives alone					0.54 (0.39, 0.75)	<0.001

**S 4:** Full prediction model for the occurrence of PASC in hospitalized patients. Risk ratios (RR) and 95% confidence intervals (CI) are depicted. The following independent variables were included in the analysis: biological sex, gender score (Model 1) or single features of the gender score (Model 2), age, BMI, acute COVID-19 symptoms, pre-existing comorbidities, prior medications, cardiovascular risk factors, routine laboratory parameters during acute illness, hormone levels (testosterone, oestradiol, progesterone, and cortisol), and clinical data during acute illness. P/F ratio, PaO2/FiO2 ratio. NS = not significant.

Factors	Bivariate analysis		Model 1 (n=429)		Model 2 (n=490)	
	Crude RR (95%CI)	p-value	Adjusted RR (95%CI)	p-value	Adjusted RR (95%CI)	p-value
Age (years)	1.004 (1.00, 1.01)	0.147	1.003 (0.99, 1.01)	0.393	1.01 (1.00, 1.03)	0.121
Female sex	1.15 (0.99, 1.34)	0.058	1.20 (0.98, 1.46)	0.076	1.14 (0.97, 1.35)	0.120
Gender score (0=Masculine - 100=Feminine) x 10 scores	1.01 (0.98, 1.04)	0.406	1.00 (0.96, 1.03)	0.795		
<b>CV risk factors</b>						
Hypertension	1.23 (1.05, 1.44)	0.010	1.24 (1.03, 1.50)	0.023	1.19 (1.00, 1.41)	0.050
<b>Medications before acute COVID-19</b>						
Cardiovascular drugs	1.19 (1.02, 1.38)	0.024		NS		NS
Asthma treatment	1.32 (1.09, 1.59)	0.004		NS		NS
Analgetics	1.20 (1.02, 1.41)	0.030		NS		NS
<b>Symptoms at presentation for acute COVID-19</b>						
Anosmia/dysosmia	1.21 (1.05, 1.40)	0.008	1.19 (1.01, 1.40)	0.037	1.20 (1.03, 1.40)	0.021
Gastrointestinal symptoms	1.32 (1.14, 1.52)	<0.001	1.29 (1.10, 1.52)	0.001	1.27 (1.09, 1.47)	0.002
Dyspnea	1.44 (1.24, 1.68)	<0.001	1.26 (1.05, 1.52)	0.014	1.26 (1.06, 1.48)	0.007
Fatigue	1.50 (1.22, 1.83)	<0.001	1.34 (1.06, 1.69)	0.013	1.35 (1.09, 1.67)	0.006
<b>Medical treatment of acute COVID-19</b>						
Corticosteroids	1.23 (1.07, 1.43)	0.004		NS		NS
Tocilizumab	1.42 (1.19, 1.68)	<0.001		NS		NS
<b>Disease course of acute COVID-19</b>						
Invasive ventilation	1.56 (1.37, 1.78)	<0.001	1.55 (1.32, 1.82)	<0.001	1.53 (1.32, 1.77)	<0.001
<b>Sociocultural-and economic variables</b>						
<b>Parenthood</b>						
Two-parent family	1.00 (Reference)					
Single-parent family	1.14 (0.89, 1.45)	0.294			1.03 (0.80, 1.34)	0.796
No children	1.11 (0.92, 1.35)	0.258			1.10 (0.89, 1.36)	0.378
<b>Education</b>						
University or technical college degree	1.00 (Reference)					
Non-University or technical college degree	1.10 (0.91, 1.33)	0.307			1.00 (0.82, 1.20)	0.966
Average domestic stress level	1.03 (1.00, 1.06)	0.048			1.00 (0.97, 1.04)	0.814
<b>Laboratory and clinical parameters at 1st day in-hospital</b>						
Respiratory rate day 1 (per minute)	1.015 (1.007, 1.022)	<0.001		NS		NS
P/F ratio day 1	0.998 (0.997, 0.999)	<0.001		NS		NS
<b>Late presentation for acute COVID-19 (yes/no)</b>	1.16 (1.002, 1.34)	0.047	1.25 (1.06, 1.47)	0.008		NS
<b>Hormones (Cortisol, Estradiol, Testosterone)</b>						
Estradiol (E2, x 100 pmol/L)	1.08 (1.04, 1.12)	<0.001		NS		NS
<b>Interaction terms</b>						
Female:Late presentation for acute COVID-19				NS		