

## Supplementary materials

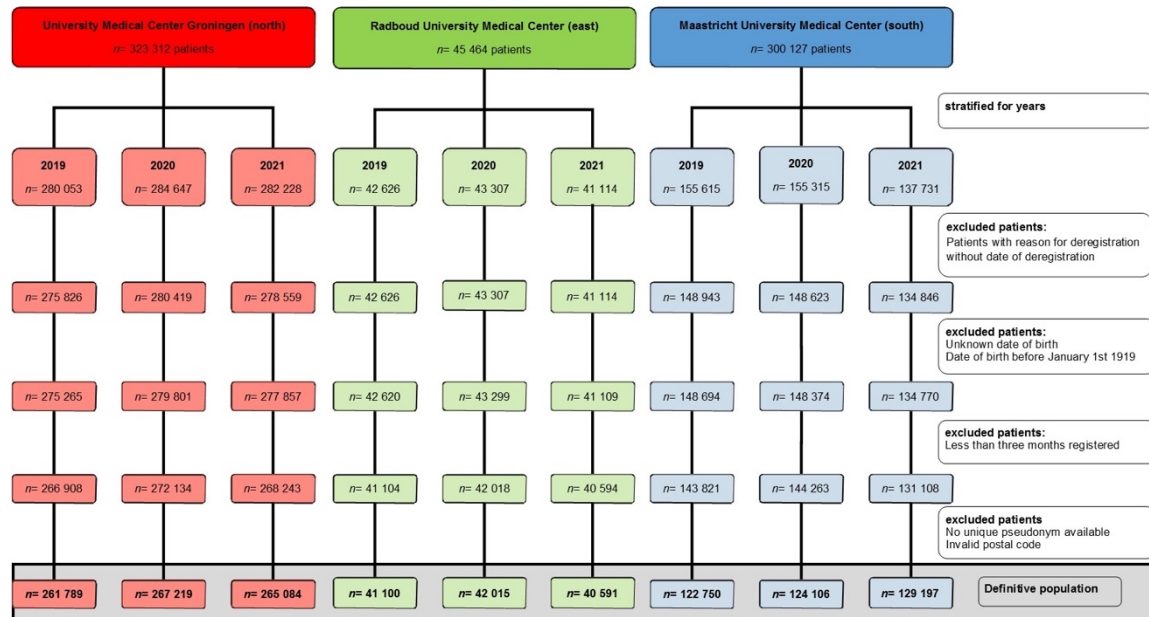
**Supplementary Table S1: potential acute COVID-19 related ICPC-1 codes**

ICPC-1 code	Description	ICPC-1 code	Description
A01	Pain general	R02	Shortness of breath/dyspnoea
A02	chills	R03	Wheezing
A03	fever	R04	Breathing problem other
A04	Weakness/tiredness general	R05	Cough
A29	General symptom/complaint, other	R07	Sneezing/nasal congestion
A77	Viral disease, other/NOS	R08	Nose symptom/complaint other
A78	Infectious disease, other/NOS	R09	Sinus symptom/complaint
B02	Lymph gland(s) enlarged/painful	R21	Throat symptom/complaint
B03	Complaints lymph gland(s)	R22	Tonsil complaints
D01	Abdominal pain/cramps general	R23	Voice symptom/complaint
D09	Nausea	R28	Limited function/disability (R)
D10	Vomiting	R29	Respiratory symptom/complaint other
D11	Diarrhoea	R74	Upper respiratory infection acute
D18	Change in faeces/bowel movements	R75	Sinusitis acute/chronic
F02	Red eye	R76	Tonsillitis acute
F70	Conjunctivitis infectious	R77	Laryngitis/tracheitis acute
H03	Tinnitus, ringing/buzzing ear	R78	Acute bronchitis/bronchiolitis
L18	Muscle pain	R80	Influenza
N01	Headache	R81	Pneumonia
N16	Disturbance of smell/taste	R83	Respiratory infection other
R01	Pain respiratory system		

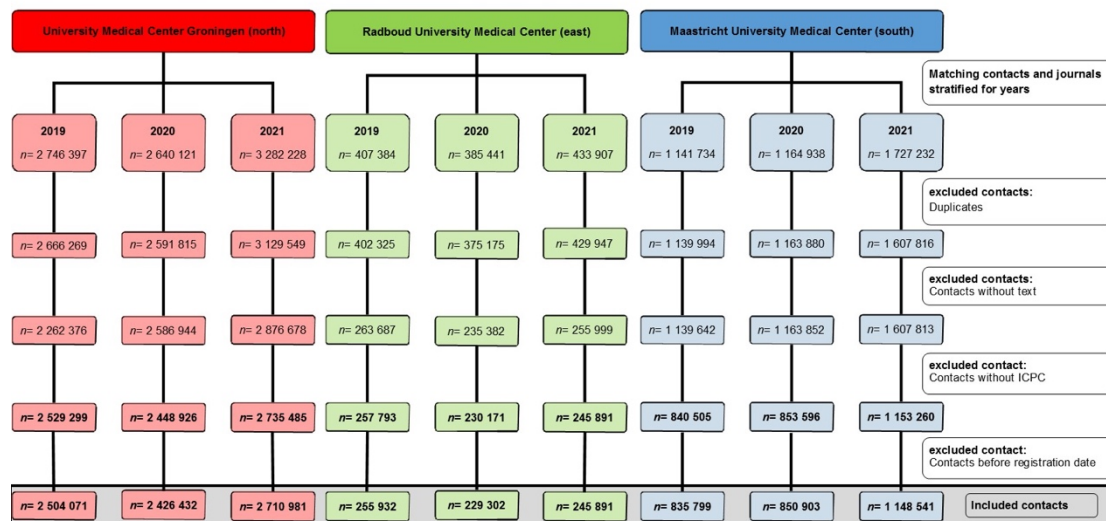
## Supplementary Figure S1: Flowcharts of patient inclusion and healthcare contact

Flowcharts show the number of included patients (a) and their healthcare contacts (b) by study region (UMCG, north; RUMC, east; MUMC, south) and year (2019, 2020, 2021). Abbreviations:

UMCG, University Medical Center Groningen; RUMC, Radboud University Medical Center Nijmegen; MUMC, Maastricht University Medical Center.



Supplementary Figure S1a:



Supplementary Figure S1b:

**Supplementary Table S2: Number of contacts per 1000 patients and the proportion of contacts by care type, study region, and study year**

	North (UMCG)						East (RUMC)						South (MUMC)					
	2019		2020		2021		2019		2020		2021		2019		2020		2021	
	P	C	P	C	P	C	P	C	P	C	P	C	P	C	P	C	P	C
<b>Acute care</b>	2963.3	52.7	2899.2	59.8	2416.0	52.9	2840.3	52.9	2764.5	60.0	2414.5	52.1	3134.4	52.6	2723.4	57.6	2678.4	52.2
Infections	787.0	14.0	729.7	15.1	643.7	14.1	738.5	13.8	698.5	15.2	654.8	14.1	810.2	13.6	665.1	14.1	719.4	14.0
Trauma	220.3	3.9	256.6	5.3	184.6	4.0	202.7	3.8	229.5	5.0	171.4	3.7	221.2	3.7	225.8	4.8	183.8	3.6
Somatic complaints and conditions	1609.3	28.6	1542.5	31.8	1279.0	28.0	1526.5	28.5	1474.9	32.0	1253.5	27.0	1671.8	28.1	1520.2	32.1	1415.6	27.6
Psychological symptoms: general	253.8	4.5	317.5	6.6	264.3	5.8	256.8	4.8	317.9	6.9	264.2	5.7	277.6	4.7	301.8	6.4	283.0	5.5
Psychological symptoms: fear of illness	29.1	0.5	27.2	0.6	19.3	0.4	49.2	0.9	23.7	0.5	44.5	1.0	56.1	0.9	19.9	0.4	50.5	1.0
Deviant (laboratory) results	42.6	0.8	24.2	0.5	38.9	0.9	37.7	0.7	21.1	0.5	33.1	0.7	44.1	0.7	25.4	0.5	38.3	0.8
Consequences/side effects of treatment	13.3	0.2	13.6	0.3	13.5	0.3	10.6	0.2	13.4	0.3	12.3	0.3	13.6	0.2	14.5	0.3	14.9	0.3
Mortality related care	15.9	0.3	13.4	0.3	20.3	0.4	20.8	0.4	17.1	0.4	16.8	0.4	21.3	0.4	15.2	0.3	20.0	0.4
No disease	99.2	1.8	95.9	2.0	74.8	1.6	91.0	1.7	88.9	1.9	64.9	1.4	122.4	2.1	73.7	1.6	72.8	1.4
<b>Prolonged reversible diseases</b>	1710.8	30.4	1425.2	29.4	1549.4	33.9	1613.3	30.1	1322.2	28.7	1532.0	33.1	1779.7	29.9	1298.7	27.5	1682.7	32.8
Neoplasms benign and not specified	51.3	0.9	50.0	1.0	48.1	1.1	42.0	0.8	41.3	0.9	42.2	0.9	48.2	0.8	43.8	0.9	51.0	1.0
Anticonception	78.3	1.4	91.2	1.9	58.3	1.3	77.3	1.4	90.9	2.0	59.9	1.3	86.4	1.5	87.1	1.8	63.1	1.2
Pregnancy	17.6	0.3	29.7	0.6	18.7	0.4	18.7	0.4	19.2	0.4	17.5	0.4	19.7	0.3	16.2	0.3	18.8	0.4
Psychological: addiction	50.5	0.9	49.5	1.0	57.7	1.3	59.9	1.1	46.4	1.0	66.9	1.4	52.2	0.9	37.5	0.8	60.8	1.2
Psychological: children	36.3	0.7	56.4	1.2	22.5	0.5	36.2	0.7	54.8	1.2	22.7	0.5	40.2	0.7	51.7	1.1	25.8	0.5
Psychological: other	193.2	3.4	261.1	5.4	202.9	4.4	184.3	3.4	248.3	5.4	205.0	4.4	197.9	3.3	234.7	5.0	219.2	4.3
Other prolonged reversible diseases	1300.0	23.1	912.8	18.8	1171.4	25.6	1209.2	22.5	845.2	18.3	1142.9	24.7	1352.7	22.7	856.3	18.1	1273.3	24.8
<b>Chronic. irreversible diseases</b>	968.9	17.2	661.0	13.6	894.4	19.6	912.7	17.0	592.7	12.9	904.4	19.5	994.5	16.7	592.7	12.5	978.6	19.1
Congenital abnormalities	33.4	0.6	38.7	0.8	30.1	0.7	29.3	0.6	33.9	0.7	26.1	0.6	34.1	0.6	37.2	0.8	30.5	0.6
Handicaps	7.4	0.1	2.7	0.1	5.2	0.1	7.4	0.1	3.0	0.1	5.1	0.1	7.6	0.1	1.9	0.0	4.7	0.1
Neoplasm: malignant	138.1	2.5	78.8	1.6	105.8	2.3	132.5	2.5	86.1	1.9	110.1	2.4	143.0	2.4	85.4	1.8	117.6	2.3
Other chronic. irreversible diseases	793.0	14.1	543.3	11.2	758.1	16.6	746.2	13.9	472.6	10.3	768.0	16.6	812.9	13.6	472.5	10.0	831.4	16.2
<b>Other</b>	247.3	4.4	179.1	3.7	89.2	2.0	237.9	4.4	239.4	5.2	109.7	2.4	323.4	5.4	442.9	9.4	172.0	3.4

Data show the number of contacts per 1000 patients (P) and the proportion of those contacts (C) for acute, prolonged, and chronic healthcare provision in general practices in the north (UMCG), east (RUMC) and south (MUMC) of the Netherlands.

<sup>1</sup> Percentages could add up to over 100%, because contacts could contain more than one ICD code