

Table 1: type of contacts at different locations

Home	Contacts at home with non-household members i.e. bezoek, kinderen die komen spelen, huishoudelijke hulp, thuiszorg, mantelzorg
Work	Beroepsbevolking: 9 miljoen 7% Pedagogisch: veel contacten met kinderen, niet als scholen dicht (helpt in kdv en basisonderwijs!) 3% Creatief/taalkundig: weinig contacten, thuiswerken/geen werk 11% Commercieel (o.a. verkopers, kassa): veel contacten, deels gesloten/deels essentieel 18% Bedrijfseconomisch/administratief: niet veel contacten, thuiswerken 5% Managers: veel contacten, deels thuiswerken 3% Openbaar bestuur: veel contacten, deel essentieel (politie), deel thuiswerken 14% Technisch: niet veel maar wel wisselende contacten, meeste niet thuiswerken 5% ICT: weinig contacten, thuiswerken 2% Agrarisch: weinig contacten, werkten al thuis 14% Zorg en welzijn: veel wisselende contacten, essentieel 9% Dienstverlenend (o.a. kappers, koks, barpersoneel, schoonmakers): veel wisselende contacten, grotendeels gesloten 7% Transport/logistiek: niet veel maar wel wisselende contacten, meeste niet thuiswerken 1% Overig
School	Kdv + basisschool: 0 t/m 12 jaar: 100% van 0-9 + 28% van 10-19 Middelbare school: 13 t/m 17 jaar: 52% van 10-19 Hoger onderwijs: alle overige schoolcontacten
Transport	Voornamelijk openbaar vervoer (praatje met onbekende / buschauffeur) Lift geven (bijv. kinderen van team naar sport brengen) Ook: samen met de trein naar museum (Leisure) wordt bij Transport gerekend (raar)
Leisure	5% Sporten buiten: vaak, weinig contacten (individueel of kleine groep) 20% Sporten binnen: vaak, weinig contacten, maar wel intensiever 1% Muziekles: vaak, vooral voor kinderen 3% Museum: soms, weinig contacten 5% Bioscoop: soms, weinig contacten, dicht op elkaar 5% Theater/opera/ballet/zitconcert: soms, redelijk veel contacten, dicht op elkaar 3% Sta concert: soms, veel intensieve contacten 13% Restaurant: vaak, redelijk veel contacten, dicht op elkaar 20% Bar: vaak, veel contacten, dicht op elkaar 3% Pretpark: zelden, redelijk veel contacten, buiten 3% Dierentuin: zelden, redelijk veel contacten, buiten 13% Terras: vaak, veel contacten, buiten 6% Festival/evenement: zelden, veel intensieve contacten
Other	Bibliotheek Wandelen / dagje strand Supermarkt Bezoek aan kapper Winkelen (ook voor je lol) Gemeentehuis / stadsdeelkantoor Ziekenhuis Huisarts / apotheek Fysiotherapeut Borrelen met de burens op straat Praatje tijdens hond uitlaten Camping Family/friend visits

Table 2: fraction of contacts compared to Pienter 2017

	Location	Age group	Fraction	Notes
D3praktijk_ leisure70	Home (also hh memb)	0-100	1.225	
	Work	0-100	0.55	
	School	0-100	0.20	
	Transport	0-100	0.15	
	Leisure	0-100	0.30	
	Other	0-100	0.50	
D3asEpiPose_ residualplus (18 mar – 10 mei 2020)	Contactmatrices_intelligentlockdown_march			
	Home	0-100	1.00	
	Work	0-100	0.483	23% werkcontacten pp over
	School	0-100	0.214	Reductie gebaseerd op 18+
	Transport	0-100	0.344	Opgebouwd uit 65% werk +35% leisure
	Leisure	0-100	0.102	Alleen sporten individueel buiten over
Other	0-100	0.889	Veel verminderd (zorg, winkelen), maar ook gecompenseerd door extra (buurt)contacten	
Batch 1 (11 mei – 1 jun 2020) Primary schools and day care open at 50% Sports for under 12s Contact professions Leisure allowed outside Shops, markets, libraries	Contactmatrices_batch1_11may			
	Home	0-100	1.00	
	Work	0-100	0.53	28% werkcontacten pp
	School	0-10	0.61	$0.214+(1-0.214)*0.5$
		10-20	0.32	$0.214+(1-0.214)*0.28*0.5$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.39	$0.65*0.53 + 0.35*(0.28 + 0.15 + 7*0.1)/9$
	Leisure	0-10	0.30	leisure kinderen op 30%
		10-20	0.16	$0.72*0.102 + 0.28*0.3$
20-100		0.102		
Other	0-100	0.90	Communicerend vat? Meer winkels open, minder contact in de buurt?	
Batch 2 (2 jun – 5 jul 2020) Primary schools and day care full open Secondary schools Terraces Leisure inside < 30p Museums Facemask in public transport	Contactmatrices_batch2_1june			
	Home	0-100	1.00	
	Work	0-100	0.63	40% werkcontacten pp
	School	0-10	1.00	Kdv/basischool open
		10-20	0.64	$0.214 + (1-0.214)*0.28 + (1-0.214)*0.52*0.5$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.53	$0.65*0.63 + 0.35*(0.45 + 0.42 + 7*0.3)/9$
	Leisure	0-10	0.45	leisure kinderen op 45%
		10-20	0.42	$0.8*0.45 + 0.2*0.3$
20-100		0.30	30% van normale leisure tijdsbesteding	
Other	0-100	0.95		
Batch 3 (6 jul – 30 aug 2020) Leisure inside < 100p or no max Events < 100p Campings Sports inside	Contactmatrices_batch3_summerholiday			
	Home	0-100	1.00	
	Work	0-100	0.63	
	School	0-100	0	Summer holiday
	Transport	0-100	0.64	$0.65*0.63 + 0.35*(2*0.8 + 7*0.6)/9$
	Leisure	0-20	0.80	Ook compensatie voor scholen dicht
		20-100	0.60	60% leisure aan (20% door binnensport, 10% versoepeling aantallen)
Other	0-100	1.00		
Start school year (31 aug – 28 sep 2020) Schools fully open; universities not More work contacts	Contactmatrices_start-schoolyear-september			
	Home	0-100	1.00	
	Work	0-100	0.77	Work from home decreases by 25%, but teachers at work
School	0-10	1.00	Kdv/basischool open	

		10-20 20-100	0.84 0.214	$0.214 + (1-0.214)*0.28 + (1-0.214)*0.52$ Hoger onderwijs dicht
	Transport	0-100	0.74	$0.65*0.77 + 0.35*(4*0.8 + 5*0.6)/9$
	Leisure	0-40 40-100	0.80 0.60	All leisure possible but less contacts Older age groups more terughoudend
	Other	0-100	1.00	
Autumn restrictions (29 sep – 14 okt 2020) Schools fully open; universities not Working from home advised; bars close at 22:00, max group sizes inside and outside; max 3 people at home	Contactmatrices_restrictions28sep			
	Home	0-100	0.90	Max 3 people at home
	Work	0-100	0.69	More working from from home
	School	0-10	1.00	Kdv/basischool open
		10-20	0.84	$0.214 + (1-0.214)*0.28 + (1-0.214)*0.52$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.58	$0.65*0.69 + 0.35*(2*0.6 + 7*0.3)/9$
Leisure	0-20	0.60	Bars close early, max group sizes	
	20-100	0.30		
Other	0-100	0.95	Less visits to friends/family	
Autumn restrictions (12 okt) with holiday Schools half open; universities not Working from home advised; bars close at 22:00, max group sizes inside and outside; max 3 people at home	Home	0-100	0.90	Max 3 people at home
	Work	0-100	0.66	More working from from home, teachers free
	School	0-10	0.61	$0.214 + (1-0.214)*0.5$
		10-20	0.53	$0.214 + (1-0.214)*(0.28 + 0.52)*0.5$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.56	$0.65*0.66 + 0.35*(2*0.6 + 7*0.3)/9$
	Leisure	0-20	0.60	Bars close early, max group sizes
20-100		0.30		
Other	0-100	0.95	Less visits to friends/family	
Extreme autumn restrictions (15 okt – 25 okt 2020) with holiday Schools half open; universities not Working from home required; bars closed, max group sizes inside and outside further reduced; max 3 people at home	Contactmatrices_partiallockdown-october-holiday			
	Home	0-100	0.90	Max 3 people at home
	Work	0-100	0.57	More working from from home (between batch1 and batch2), teachers free
	School	0-10	0.61	$0.214 + (1-0.214)*0.5$
		10-20	0.53	$0.214 + (1-0.214)*(0.28 + 0.52)*0.5$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.46	$0.65*0.57 + 0.35*(0.6 + 0.4 + 7*0.2)/9$
Leisure	0-10	0.60	Bars closed, even smaller max group sizes, less group sports	
	10-20	0.40		
	20-100	0.20		
Other	0-100	0.95	Less visits to friends/family	
Extreme autumn restrictions (26 okt – 4 nov 2020 & 19 nov – 14 dec 2020) Schools fully open; universities not Working from home required; bars closed, max group sizes inside and outside further reduced; max 3 people at home	Contactmatrices_partiallockdown-october			
	Home	0-100	0.90	Max 3 people at home
	Work	0-100	0.60	More working from from home (between batch1 and batch2)
	School	0-10	1.00	Kdv/basischool open
		10-20	0.84	$0.214 + (1-0.214)*0.28 + (1-0.214)*0.52$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.48	$0.65*0.60 + 0.35*(0.6 + 0.4 + 7*0.2)/9$
Leisure	0-10	0.60	Bars closed, even smaller max group sizes, less group sports	
	10-20	0.40		
	20-100	0.20		
Other	0-100	0.95	Less visits to friends/family	
MarchLockdown schools open (26 okt) No visits at home, Working from home required; schools fully	Home	0-100	1.00	
	Work	0-100	0.565	Werkcontacten gereduceerd als maart maar leraren aan het werk
	School	0-10	1.00	Kdv/basischool open
10-20		0.84	$0.214 + (1-0.214)*0.28 + (1-0.214)*0.52$	

open; bars, restaurants, theaters, cinemas, museums, zoos, attraction parks, sport clubs closed, max group size of 4 outside		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.403	Opgebouwd uit 65% werk + 35% leisure
	Leisure	0-100	0.102	Alleen sporten individueel buiten over
	Other	0-100	0.889	Veel verminderd (zorg, winkelen), maar ook gecompenseerd door extra (buurt)contacten
MarchLockdown primary schools open (26 okt) No visits at home, Working from home required; only primary schools open; bars, restaurants, theaters, cinemas, museums, zoos, attraction parks, sport clubs closed, max group size of 4 outside	Home	0-100	1.00	
	Work	0-100	0.525	Werkcontacten gereduceerd als maart maar leraren basisonderwijs/kdv aan het werk
	School	0-10	1.00	Kdv/basischool open
		10-20	0.434	$0.214 + (1 - 0.214) * 0.28$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.377	Opgebouwd uit 65% werk + 35% leisure
	Leisure	0-100	0.102	Alleen sporten individueel buiten over
Other	0-100	0.889	Veel verminderd (zorg, winkelen), maar ook gecompenseerd door extra (buurt)contacten	
2 weeks november extra restrictions (5 nov – 18 nov 2020) Schools fully open; universities not Working from home required; bars closed, all leisure closed; sport clubs open but no groups; max 2 people outside; max 2 people invited at home	Contactmatrices_2week-lockdown-november			
	Home	0-100	0.85	Max 2 people at home
	Work	0-100	0.58	Compared to 'extreme autumn' only leisure personnel out of work
	School	0-10	1.00	Kdv/basischool open
		10-20	0.84	$0.214 + (1 - 0.214) * 0.28 + (1 - 0.214) * 0.52$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.48	$0.65 * 0.60 + 0.35 * (0.6 + 0.4 + 7 * 0.2) / 9$
	Leisure	0-10	0.40	Sport clubs for children allowed, but no outings
10-20		0.25		
20-100		0.15	Compared to march lockdown, sport clubs open	
Other	0-100	0.95	Less visits to friends/family	
Christmas holiday (21 dec – 4 jan) Schools closed. Working from home required; less work; bars closed, max group sizes inside 30	Contactmatrices_Christmas-holiday			
	Home	0-100	1.10	More people at home for holidays
	Work	0-100	0.483	Comparable to march lockdown and summer holiday in google mobility. Or: 0.54 (for schools closed) and work in other sectors further reduced due to holiday.
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.43	$0.65 * 0.483 + 0.35 * (0.6 + 0.4 + 7 * 0.3) / 9$
	Leisure	0-10	0.60	No change: less clubs, more outings
		10-20	0.40	No change: less clubs, more outings
20-100		0.30	Slightly higher: more free time, but not much to do	
Other	0-100	1.10	More visits to friends/family	
Christmas holiday (21 dec – 4 jan) Schools closed. Working from home required; less work; bars closed, max group sizes inside 30	Contactmatrices_Christmas-holiday2			
	Home	0-100	1.10	More people at home for holidays
	Work	0-100	0.483	Comparable to march lockdown and summer holiday in google mobility. Or: 0.54 (for schools closed) and work in other sectors further reduced due to holiday.
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.43	$0.65 * 0.483 + 0.35 * (0.6 + 0.4 + 7 * 0.3) / 9$
	Leisure	0-10	0.60	No change: less clubs, more outings
		10-20	0.40	No change: less clubs, more outings
20-100		0.30	Slightly higher: more free time, but not much to do	
Other	0-100	1.05	More visits to friends/family	
Christmas holiday (21 dec – 4 jan)	Contactmatrices_Christmas-relaxed			
	Home	0-100	1.20	6 persons allowed to receive at home (was 3)

Schools closed. Working from home required; less work; bars closed, max group sizes inside 30, 6 instead of 3 people allowed at home	Work	0-100	0.483	Comparable to march lockdown and summer holiday in google mobility. Or: 0.54 (for schools closed) and work in other sectors further reduced due to holiday.
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.43	$0.65 * 0.483 + 0.35 * (0.6 + 0.4 + 7 * 0.3) / 9$
	Leisure	0-10	0.60	No change: less clubs, more outings
		10-20	0.40	No change: less clubs, more outings
20-100	0.30	Slightly higher: more free time, but not much to do		
Other	0-100	1.10	Even more visits to friends/family (now 6 allowed instead of 3)	
Christmas holiday (21 dec – 4 jan) Schools closed. Working from home required; less work; bars closed, max group sizes inside 30, 6 instead of 3 persons allowed at home, restaurants open for 30 persons, theaters/cinemas for max 100 persons (was 30)	Contactmatrices_Christmas-relaxed-open			
	Home	0-100	1.20	6 persons allowed to receive at home (was 3)
	Work	0-100	0.545	Original 0.483 increased by horeca personnel and theater/cinema/leisure personnel (also restaurants in zoos, parks open)
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.51	$0.65 * 0.545 + 0.35 * (0.6 + 0.5 + 7 * 0.4) / 9$
	Leisure	0-10	0.60	No change: less clubs, more outings
10-20		0.50	Restaurants open and more cultural activities	
20-100	0.40	Restaurants open and more cultural activities		
Other	0-100	1.10	Even more visits to friends/family (now 6 allowed instead of 3)	
All schools closed pre/post Christmas (?) Schools closed; universities not Working from home required; bars closed, max group sizes inside and outside further reduced; max 3 people at home	Contactmatrices_extension-Christmas-allschools			
	Home	0-100	0.90	Max 3 people at home
	Work	0-100	0.54	Working from home required + school teachers at home
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.44	$0.65 * 0.54 + 0.35 * (0.6 + 0.4 + 7 * 0.2) / 9$
	Leisure	0-10	0.60	Bars closed, even smaller max group sizes, less group sports
		10-20	0.40	Bars closed, even smaller max group sizes, less group sports
20-100	0.20	Bars closed, even smaller max group sizes, less group sports		
Other	0-100	0.95	Less visits to friends/family	
Secondary schools closed pre/post Christmas (?) Schools closed; universities not Working from home required; bars closed, max group sizes inside and outside further reduced; max 3 people at home	Contactmatrices_extension-Christmas-secschools			
	Home	0-100	0.90	Max 3 people at home
	Work	0-100	0.57	Working from home required + sec school teachers at home
	School	0-10	1.00	Kdv/basischool open
		10-20	0.43	$0.214 + (1 - 0.214) * 0.28$
	20-100	0.214	Hoger onderwijs dicht	
	Transport	0-100	0.46	$0.57 * 0.60 + 0.35 * (0.6 + 0.4 + 7 * 0.2) / 9$
Leisure	0-10	0.60	Bars closed, even smaller max group sizes, less group sports	
	10-20	0.40	Bars closed, even smaller max group sizes, less group sports	
20-100	0.20	Bars closed, even smaller max group sizes, less group sports		
Other	0-100	0.95	Less visits to friends/family	
Winter lockdown (15 dec – 20 dec 2020 & 4 jan – 22 jan 2021) Schools, universities closed; working from home required; non-essential shops closed, bars closed, all leisure	Contactmatrices_winter-lockdown			
	Home	0-100	0.85	Max 2 people at home
	Work	0-100	0.483	Comparable to march lockdown
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.36	$0.65 * 0.483 + 0.35 * (0.30 + 0.20 + 7 * 0.102) / 9$
Leisure	0-10	0.30	Sport clubs for children < 18 allowed	

closed; sport clubs only open outside for under 18's; max 2 people outside; max 2 people invited at home		10-20 20-100	0.20 0.102	Comparable to march lockdown
	Other	0-100	0.889	
Christmas holiday with winter lockdown (21 dec 2020 – 3 jan 2021) Schools, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 2 people invited at home (3 during christmas days)	Contactmatrices_winter-lockdown-christmas			
	Home	0-100	1.00	Max 2 people at home, max 3 people at home during christmas days, but overall increase in home visits
	Work	0-100	0.43	Comparable to march lockdown, but also holiday for persons not able to work from home
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.33	$0.65*0.43 + 0.35*(0.30 + 0.20 + 7*0.102)/9$
	Leisure	0-10	0.30	Sport clubs for children < 18 allowed
		10-20 20-100	0.20 0.102	Comparable to march lockdown
Other	0-100	0.95	Comparable to march lockdown (more contacts and less shops do not cancel out)	
Winter lockdown (?) Primary schools open, secondary schools, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 2 people invited at home	Contactmatrices_winter-lockdown-primschools-open			
	Home	0-100	0.85	Max 2 people at home
	Work	0-100	0.515	Comparable to march lockdown but prim school teachers at work
	School	0-10	1.00	Kdv/basischool open
		10-20	0.43	$0.214 + (1-0.214)*0.28$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.38	$0.65*0.515 + 0.35*(0.30 + 0.20 + 7*0.102)/9$
Leisure	0-10	0.30	Sport clubs for children < 18 allowed	
	10-20	0.20	Comparable to march lockdown	
	20-100	0.102		
Other	0-100	0.889	Comparable to march lockdown (less shops and more contacts cancel out)	
Winter lockdown (?) Schools open, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 2 people invited at home	Contactmatrices_winter-lockdown-allschools-open			
	Home	0-100	0.85	Max 2 people at home
	Work	0-100	0.545	Comparable to march lockdown but school teachers at work
	School	0-10	1.00	Kdv/basischool open
		10-20	0.84	$0.214 + (1-0.214)*0.28 + (1-0.214)*0.52$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.40	$0.65*0.545 + 0.35*(0.30 + 0.20 + 7*0.102)/9$
Leisure	0-10	0.30	Sport clubs for children < 18 allowed	
	10-20	0.20	Comparable to march lockdown	
	20-100	0.102		
Other	0-100	0.889	Comparable to march lockdown (less shops and more contacts cancel out)	
Winter lockdown (23 jan – 7 feb 2021) Schools, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 1 person invited at home;	Contactmatrices_winter-lockdown-curfew			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.483	Comparable to march lockdown
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.36	$0.65*0.483 + 0.35*(0.30 + 0.20 + 7*0.102)/9$
	Leisure	0-10	0.30	Sport clubs for children < 18 allowed
		10-20	0.20	Comparable to march lockdown
20-100		0.102		
Other	0-100	0.80	More stringent than March lockdown, especially	

curfew from 21:00 – 4:30				social visits affected by restriction and curfew
Winter lockdown (8 feb – 28 feb 2021) Prims schools open, sec schools, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 1 person invited at home; curfew from 21:00 – 4:30	Contactmatrices_winter-lockdown-curfew-primschools-open			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.515	Comparable to march lockdown but prim school teachers at work
	School	0-10	1.00	Kdv/basischool open $0.214 + (1-0.214)*0.28$ Hoger onderwijs dicht
		10-20	0.43	
		20-100	0.214	
	Transport	0-100	0.38	$0.65*0.515 + 0.35*(0.30 + 0.20 + 7*0.102)/9$
Leisure	0-10	0.30	Sport clubs for children < 18 allowed Comparable to march lockdown	
	10-20	0.20		
	20-100	0.102		
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Winter lockdown (?) Prims schools open, sec schools half days open, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 1 person invited at home; curfew from 21:00 – 4:30	Contactmatrices_winter-lockdown-curfew-primhalfsecschools-open			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.53	Comparable to march lockdown but prim school teachers at work
	School	0-10	1.00	Kdv/basischool open $0.214 + (1-0.214)*0.28 + (1-0.214)*0.5*0.52$ Hoger onderwijs dicht
		10-20	0.64	
		20-100	0.214	
	Transport	0-100	0.39	$0.65*0.53 + 0.35*(0.30 + 0.20 + 7*0.102)/9$
Leisure	0-10	0.30	Sport clubs for children < 18 allowed Comparable to march lockdown	
	10-20	0.20		
	20-100	0.102		
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Winter lockdown (?) Prims and sec schools open, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 1 person invited at home; curfew from 21:00 – 4:30	Contactmatrices_winter-lockdown-curfew-allschools-open			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.545	Comparable to march lockdown but all school teachers at work
	School	0-10	1.00	Kdv/basischool open $0.214 + (1-0.214)*0.28 + (1-0.214)*0.52$ Hoger onderwijs dicht
		10-20	0.84	
		20-100	0.214	
	Transport	0-100	0.40	$0.65*0.545 + 0.35*(0.30 + 0.20 + 7*0.102)/9$
Leisure	0-10	0.30	Sport clubs for children < 18 allowed Comparable to march lockdown	
	10-20	0.20		
	20-100	0.102		
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Winter lockdown (?) A-alt Prims schools open, sec schools, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under	Contactmatrices_winter-lockdown-1visitor-primschools-open			
	Home	0-100	0.80	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected (higher than with curfew)
	Work	0-100	0.515	Comparable to march lockdown but prim school teachers at work
School	0-10	1.00	Kdv/basischool open $0.214 + (1-0.214)*0.28$	
	10-20	0.43		

18's; max 2 people outside; max 1 person invited at home; NO curfew		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.38	$0.65 * 0.515 + 0.35 * (0.30 + 0.20 + 7 * 0.102) / 9$
	Leisure	0-10	0.30	Sport clubs for children < 18 allowed
		10-20	0.20	
	20-100	0.102	Comparable to march lockdown	
Other	0-100	0.85	More stringent than March lockdown, especially social visits affected by restriction 1 visitor	
Winter lockdown () B Prims schools and BSO open, sec schools 50% open, WO 30% open; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 1 person invited at home; curfew from 21:00 – 4:30	Contactmatrices_winter-lockdown-curfew-allschoolsBSO-open			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.552	Comparable to march lockdown but prim and sec school teachers at work and WO for 33%
	School	0-10	1.00	Kdv/basischool open
		10-20	0.69	VO 50% open: $0.214 + (1-0.214) * 0.28 + (1-0.214) * 0.52 * 0.5 + (1-0.214) * 0.2 * 0.30$
	20-100	0.45	Hoger onderwijs 30% open: $0.214 + (1-0.214) * 0.30$	
	Transport	0-100	0.41	$0.65 * 0.552 + 0.35 * (0.40 + 0.25 + 7 * 0.102) / 9$
	Leisure	0-10	0.40	Sport clubs for children < 18 allowed, BSO open
		10-20	0.25	BSO open (but less effect than 0-10)
20-100	0.102	Comparable to march lockdown		
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Winter lockdown () B-alt Prims schools and BSO open, sec schools 50% open, WO 30% open; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 1 person invited at home; NO curfew	Contactmatrices_winter-lockdown-1visitor-allschoolsBSO-open			
	Home	0-100	0.80	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected (higher than with curfew)
	Work	0-100	0.552	Comparable to march lockdown but prim and sec school teachers at work and WO for 33%
	School	0-10	1.00	Kdv/basischool open
		10-20	0.69	VO 50% open: $0.214 + (1-0.214) * 0.28 + (1-0.214) * 0.52 * 0.5 + (1-0.214) * 0.2 * 0.30$
	20-100	0.45	Hoger onderwijs 30% open: $0.214 + (1-0.214) * 0.30$	
	Transport	0-100	0.41	$0.65 * 0.552 + 0.35 * (0.40 + 0.25 + 7 * 0.102) / 9$
	Leisure	0-10	0.40	Sport clubs for children < 18 allowed, BSO open
		10-20	0.25	BSO open (but less effect than 0-10)
20-100	0.102	Comparable to march lockdown		
Other	0-100	0.85	More stringent than March lockdown, especially social visits affected by restriction 1 visitor	
Winter lockdown () C Prims schools and BSO open, sec schools 50% open, WO 30% open; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; max 2 people outside; max 2 persons invited at home; NO curfew	Contactmatrices_winter-lockdown-allschoolsBSO-open			
	Home	0-100	0.85	Max 2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.552	Comparable to march lockdown but prim and sec school teachers at work and WO for 33%
	School	0-10	1.00	Kdv/basischool open
		10-20	0.69	VO 50% open: $0.214 + (1-0.214) * 0.28 + (1-0.214) * 0.52 * 0.5 + (1-0.214) * 0.2 * 0.30$
	20-100	0.45	Hoger onderwijs 30% open: $0.214 + (1-0.214) * 0.30$	
	Transport	0-100	0.41	$0.65 * 0.552 + 0.35 * (0.40 + 0.25 + 7 * 0.102) / 9$
	Leisure	0-10	0.40	Sport clubs for children < 18 allowed, BSO open
		10-20	0.25	BSO open (but less effect than 0-10)
20-100	0.102	Comparable to march lockdown		
Other	0-100	0.889	Comparable to march lockdown (less shops and more contacts cancel out)	
Winter lockdown () D Prims schools and BSO	Contactmatrices_winter-lockdown-contactprof-allschoolsBSO-open			
	Home	0-100	0.85	Max 2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected

open, sec schools 50% open, WO 30% open; working from home required; non-essential contactberoepen open; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under 18's; individual sports inside allowed; max 2 people outside; max 2 persons invited at home; NO curfew	Work	0-100	0.579	Comparable to march lockdown but prim and sec school teachers at work and WO for 33%; all contact professions at work
	School	0-10	1.00	Kdv/basischool open VO 50% open: $0.214 + (1-0.214)*0.28 + (1-0.214)*0.52*0.5 + (1-0.214)*0.2*0.30$ Hoger onderwijs 30% open: $0.214 + (1-0.214)*0.30$
		10-20	0.69	
		20-100	0.45	
	Transport	0-100	0.44	$0.65*0.579 + 0.35*(0.40 + 0.25 + 7*0.15)/9$
	Leisure	0-10	0.40	Sport clubs for children < 18 allowed, BSO open BSO open (but less effect than 0-10) Individual sports inside allowed (sport clubs open)
10-20		0.25		
20-100		0.15		
Other	0-100	0.889	Comparable to march lockdown (less shops and more contacts cancel out)	
Spring lockdown (1 mrt – 18 apr 2021) Prims schools open, sec schools/MBO partly open, universities closed; working from home required; non-essential shops closed, but private shopping allowed, bars closed, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 1 person invited at home; curfew from 21:00 – 4:30	Contactmatrices_spring-lockdown			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.583	Comparable to march lockdown but prim and sec school teachers at work + contact professions + 10% winkelpersoneel
	School	0-10	1.00	Kdv/basisschool open Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$ Hoger onderwijs dicht
		10-20	0.60	
		20-100	0.214	
	Transport	0-100	0.43	$0.65*0.583 + 0.35*(0.30 + 0.20 + 0.15 + 6*0.102)/9$
	Leisure	0-10	0.30	Sport clubs for children < 27 allowed Comparable to march lockdown
10-20		0.20		
20-30		0.15		
30-100		0.102		
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Spring lockdown () Prims schools open, sec schools/MBO partly open, universities closed; working from home required; non-essential shops closed, but private shopping allowed, bars closed, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 2 person invited at home; NO curfew	Contactmatrices_spring-lockdown-curfewlifted			
	Home	0-100	0.85	Max 2 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.583	Comparable to march lockdown but prim and sec school teachers at work + contact professions + 10% winkelpersoneel
	School	0-10	1.00	Kdv/basisschool open Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$ Hoger onderwijs dicht
		10-20	0.60	
		20-100	0.214	
	Transport	0-100	0.43	$0.65*0.583 + 0.35*(0.30 + 0.20 + 0.15 + 6*0.102)/9$
	Leisure	0-10	0.30	Sport clubs for children < 27 allowed Comparable to march lockdown
10-20		0.20		
20-30		0.15		
30-100		0.102		
Other	0-100	0.889	Comparable to march lockdown (less shops and more contacts cancel out)	
Spring lockdown () Prims schools open, sec schools/MBO/ universities partly open; working from home required; non-essential shops closed, but private shopping allowed, bars closed, all leisure closed; sport clubs only open outside	Contactmatrices_spring-lockdown-HBOWO1day			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.590	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 10% winkelpersoneel
	School	0-10	1.00	Kdv/basisschool open Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$
10-20		0.60		

for under 27's; max 2 people outside; max 1 person invited at home; curfew from 21:00 – 4:30		20-100	0.37	HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$
	Transport	0-100	0.43	$0.65*0.590 + 0.35*(0.30 + 0.20 + 0.15 + 6*0.102)/9$
	Leisure	0-10	0.30	Sport clubs for children < 27 allowed
		10-20	0.20	
		20-30	0.15	
30-100	0.102	Comparable to march lockdown		
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Spring lockdown () Prims schools open, sec schools/MBO partly open, universities closed; working from home required; non-essential shops closed, but private shopping allowed, bars closed, but terraces open until 20:00; all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 1 person invited at home; curfew from 21:00 – 4:30	Contactmatrices_spring-lockdown-terraces			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.597	Comparable to march lockdown but prim and sec school teachers at work + contact professions + 10% winkelpersoneel + 20% horecapersoneel
	School	0-10	1.00	Kdv/basisschool open Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$ Hoger onderwijs dicht
		10-20	0.60	
		20-100	0.214	
	Transport	0-100	0.45	$0.65*0.597 + 0.35*(0.30 + 0.25 + 0.20 + 6*0.15)/9$
	Leisure	0-10	0.30	Sport clubs for children < 27 allowed All age classes except 0-10 0.05 added for opening terraces
10-20		0.25		
20-30		0.20		
30-100	0.15			
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Spring lockdown () Prims schools open, sec schools/MBO/ universities partly open; working from home required; non-essential shops closed, but private shopping allowed, bars closed, but terraces open until 20:00; all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 1 person invited at home; curfew from 21:00 – 4:30	Contactmatrices_spring-lockdown-onedayHBOWO-terraces			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.604	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 10% winkelpersoneel
	School	0-10	1.00	Kdv/basisschool open Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$ HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$
		10-20	0.60	
		20-100	0.37	
	Transport	0-100	0.46	$0.65*0.604 + 0.35*(0.30 + 0.25 + 0.20 + 6*0.15)/9$
	Leisure	0-10	0.30	Sport clubs for children < 27 allowed All age classes except 0-10 0.05 added for opening terraces
10-20		0.25		
20-30		0.20		
30-100	0.15			
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Spring lockdown (19 – 27 apr 2021) Prims schools open, sec schools/MBO partly open, BSO open, universities closed; working from home required; non-essential shops closed, but private shopping allowed, bars closed, all leisure closed; sport clubs only open outside for under 27's; max 2	Contactmatrices_spring-lockdown-BSO			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.583	Comparable to march lockdown but prim and sec school teachers at work + contact professions + 10% winkelpersoneel
	School	0-10	1.00	Kdv/basisschool open Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$ Hoger onderwijs dicht
		10-20	0.60	
		20-100	0.214	
Transport	0-100	0.43	$0.65*0.583 + 0.35*(0.40 + 0.25 + 0.15 + 6*0.102)/9$	
Leisure	0-10	0.40	BSO open	

people outside; max 1 person invited at home; curfew from 21:00 – 4:30		10-20 20-30 30-100	0.25 0.15 0.102	BSO open (but less effect than 0-10) Sport clubs for children < 27 allowed Comparable to march lockdown
	Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew
Spring lockdown () Prims schools open, sec schools/MBO/ universities partly open; BSO open; working from home required; non-essential shops closed, but private shopping allowed, bars closed, all leisure closed; sport clubs only open outside for under 27's; max 1 person invited at home; curfew from 21:00 – 4:30	Contactmatrices_spring-lockdown-BSO-HBOWO1day			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.590	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 10% winkelpersoneel
	School	0-10	1.00	Kdv/basisschool open
		10-20	0.60	Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$
		20-100	0.37	HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$
	Transport	0-100	0.44	$0.65*0.590 + 0.35*(0.40 + 0.25 + 0.15 + 6*0.102)/9$
	Leisure	0-10	0.40	BSO open
10-20		0.25	BSO open (but less effect than 0-10)	
20-30		0.15	Sport clubs for children < 27 allowed	
30-100		0.102	Comparable to march lockdown	
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Spring lockdown () Prims schools open, sec schools/MBO/ universities partly open; working from home required; non-essential shops closed, but private shopping allowed, bars closed, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 2 person invited at home; NO curfew	Contactmatrices_spring-lockdown-HBOWO1day-curfewlifted			
	Home	0-100	0.85	Max2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.590	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 10% winkelpersoneel
	School	0-10	1.00	Kdv/basisschool open
		10-20	0.60	Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$
		20-100	0.37	HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$
	Transport	0-100	0.43	$0.65*0.590 + 0.35*(0.30 + 0.20 + 0.15 + 6*0.102)/9$
	Leisure	0-10	0.30	Sport clubs for children < 27 allowed
10-20		0.20		
20-30		0.15		
30-100		0.102	Comparable to march lockdown	
Other	0-100	0.889	Comparable to march lockdown	
Spring lockdown () Prims schools open, sec schools/MBO partly open, BSO open, universities closed; working from home required; non-essential shops closed, but private shopping allowed, bars closed, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 2 person invited at home; NO curfew	Contactmatrices_spring-lockdown-BSO-curfewlifted			
	Home	0-100	0.85	Max 2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.583	Comparable to march lockdown but prim and sec school teachers at work + contact professions + 10% winkelpersoneel
	School	0-10	1.00	Kdv/basisschool open
		10-20	0.60	Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.43	$0.65*0.583 + 0.35*(0.40 + 0.25 + 0.15 + 6*0.102)/9$
	Leisure	0-10	0.40	BSO open
10-20		0.25	BSO open (but less effect than 0-10)	
20-30		0.15	Sport clubs for children < 27 allowed	
30-100		0.102	Comparable to march lockdown	
Other	0-100	0.889	Comparable to march lockdown	

Spring lockdown () Prims schools open, sec schools/MBO/universities partly open; BSO open; working from home required; non-essential shops closed, but private shopping allowed, bars closed, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 2 person invited at home; NO curfew	Contactmatrices_spring-lockdown-BSO-HBOWO1day-curfewlifted			
	Home	0-100	0.85	Max 2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.590	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 10% winkelpersoneel
	School	0-10	1.00	Kdv/basisschool open
		10-20	0.60	Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$
		20-100	0.37	HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$
	Transport	0-100	0.44	$0.65*0.590 + 0.35*(0.40 + 0.25 + 0.15 + 6*0.102)/9$
	Leisure	0-10	0.40	BSO open
		10-20	0.25	BSO open (but less effect than 0-10)
		20-30	0.15	Sport clubs for children < 27 allowed
30-100		0.102	Comparable to march lockdown	
Other	0-100	0.889	Comparable to march lockdown	
Open up (17 mei - 18 mei 2021) Prims schools open, sec schools/MBO/universities partly open; BSO open; working from home required; non-essential shops open as before winter lockdown, bars insided closed, but terraces open, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 2 person invited at home; NO curfew	Contactmatrices_spring-lockdown-BSO-HBO-terraces-shops-curfewlifted			
	Contactmatrices_openup-step1			
	Home	0-100	0.85	Max 2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.622	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 20% winkelpersoneel + 30% horecapersoneel
	School	0-10	1.00	Kdv/basisschool open
		10-20	0.60	Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$
		20-100	0.37	HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$
	Transport	0-100	0.47	$0.65*0.622 + 0.35*(0.40 + 0.30 + 0.20 + 6*0.15)/9$
	Leisure	0-10	0.40	BSO open
		10-20	0.30	BSO open (but less effect than 0-10)
20-30		0.20	Sport clubs for children < 27 allowed	
30-100		0.15	All age classes except 0-10 0.05 added for opening terraces	
Other	0-100	0.92	non-essential shops open, but still 2 visitors allowed at home	
Spring lockdown () Prims schools, sec schools/MBO may holiday, BSO open, universities closed; working from home required; non-essential shops closed, but private shopping allowed, bars closed, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 1 person invited at home; curfew from 21:00 – 4:30	Contactmatrices_spring-lockdown-BSO-meivakantie			
	Home	0-100	0.75	Max 1 person at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.522	Comparable to march lockdown but prim and sec school teachers on holiday + contact professions + 10% winkelpersoneel
	School	0-10	0.214	Meivakantie
		10-20	0.214	
		20-100	0.214	Hoger onderwijs dicht
	Transport	0-100	0.394	$0.65*0.522 + 0.35*(0.40 + 0.25 + 0.15 + 6*0.102)/9$
	Leisure	0-10	0.40	BSO open
		10-20	0.25	BSO open (but less effect than 0-10)
		20-30	0.15	Sport clubs for children < 27 allowed
30-100		0.102	Comparable to march lockdown	
Other	0-100	0.80	More stringent than March lockdown, especially social visits affected by restriction and curfew	
Open up (28 apr – 16 mei 2021)	Contactmatrices_openup-step1-meivakantie			
	Home	0-100	0.85	Max 2 persons at home for visiting; visits by

Prims schools, sec schools, MBO may holiday; universities partly open; BSO open; working from home required; non-essential shops open as before winter lockdown, bars insided closed, but terraces open, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 2 person invited at home; NO curfew				thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.561	Comparable to march lockdown but prim and sec school teachers on holiday, 85% univ teachers at work + contact professions + 20% winkelpersoneel + 30% horecapersoneel
	School	0-10	0.214	Meivakantie HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$
		10-20	0.214	
		20-100	0.37	
	Transport	0-100	0.435	$0.65*0.561 + 0.35*(0.40 + 0.30 + 0.20 + 6*0.15)/9$
	Leisure	0-10	0.40	BSO open BSO open (but less effect than 0-10) Sport clubs for children < 27 allowed All age classes except 0-10 0.05 added for opening terraces
10-20		0.30		
20-30		0.20		
30-100		0.15		
Other	0-100	0.92	non-essential shops open, but still 2 visitors allowed at home	
Open up (19 mei – 30 mei 2021) Prims schools open, sec schools/MBO/universities partly open; BSO open; working from home required; non-essential shops open as before winter lockdown, bars insided closed, but terraces open. Some leisure (zoo, culture clubs) open, rest closed; sport clubs open outside, some inside sports allowed; max 2 people outside; max 2 person invited at home	Contactmatrices_openup-step2			
	Home	0-100	0.85	Max 2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.643	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 20% winkelpersoneel + 30% horecapersoneel + 30% leisure personeel
	School	0-10	1.00	Kdv/basisschool open Sec schools & MBO 30% open (all 13-19 yo) $0.214 + (1-0.214)*0.28 + (1-0.214)*0.3*0.72$ HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$
		10-20	0.60	
		20-100	0.37	
	Transport	0-100	0.51	$0.65*0.643 + 0.35*(0.60 + 0.40 + 7*0.20)/9$
	Leisure	0-10	0.60	BSO and outside leisure allowed Estimates similar to partial lockdown october 2020
10-20		0.40		
20-100		0.20		
Other	0-100	0.92	non-essential shops open, but still 2 visitors allowed at home	
Open up () Prims schools, sec schools, MBO may holiday; universities partly open; BSO open; working from home required; non-essential shops open as before winter lockdown, bars insided closed, but terraces open, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 2 person invited at home; NO curfew	Contactmatrices_openup-step2-meivakantie			
	Home	0-100	0.85	Max 2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.582	Comparable to march lockdown but prim and sec school teachers on holiday, 85% univ teachers at work + contact professions + 20% winkelpersoneel + 30% horecapersoneel + 30% leisure personeel
	School	0-10	0.214	Meivakantie HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$
		10-20	0.214	
		20-100	0.37	
	Transport	0-100	0.47	$0.65*0.582 + 0.35*(0.60 + 0.40 + 7*0.20)/9$
	Leisure	0-10	0.60	BSO and outside leisure allowed Estimates similar to partial lockdown october 2020
10-20		0.40		
20-100		0.20		
Other	0-100	0.92	non-essential shops open, but still 2 visitors allowed at home	
Open up (31 mei – 4 jun 2021) Prims schools open, sec schools/MBO open;	Contactmatrices_openup-step2-VOopen			
	Home	0-100	0.85	Max 2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected
	Work	0-100	0.643	Comparable to march lockdown but prim and sec

HBO/universities partly open; BSO open; working from home required; non-essential shops open as before winter lockdown, bars insided closed, but terraces open. Some leisure (zoo, culture clubs) open, rest closed; sport clubs open outside, some inside sports allowed; max 2 people outside; max 2 person invited at home				school teachers and 85% univ teachers at work + contact professions + 20% winkelpersoneel + 30% horecapersoneel + 30% leisure personeel	
	School	0-10	1.00	Kdv/basisschool open Sec schools & MBO open (18-19 yo 20% open) $0.214 + (1-0.214)*0.8 + (1-0.214)*0.2*0.2$ HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214)*0.2$	
		10-20	0.87		
		20-100	0.37		
	Transport	0-100	0.51	$0.65*0.643 + 0.35*(0.60 + 0.40 + 7*0.20)/9$	
	Leisure	0-10	0.60	BSO and outside leisure allowed Estimates similar to partial lockdown october 2020	
10-20		0.40			
20-100		0.20			
Other	0-100	0.92	non-essential shops open, but still 2 visitors allowed at home		
Open up ()	Contactmatrices_openup-step1-VOopen				
Prims schools open, sec schools/MBO open; HBO/universities partly open; BSO open; working from home required; non-essential shops open as before winter lockdown, bars insided closed, but terraces open, all leisure closed; sport clubs only open outside for under 27's; max 2 people outside; max 2 person invited at home; NO curfew	Home	0-100	0.85	Max 2 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected	
	Work	0-100	0.622	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 20% winkelpersoneel + 30% horecapersoneel	
		School	0-10		1.00
			10-20		0.87
		20-100	0.37	$0.214 + (1-0.214)*0.2$	
	Transport	0-100	0.47	$0.65*0.622 + 0.35*(0.40 + 0.30 + 0.20 + 6*0.15)/9$	
	Leisure	0-10	0.40	BSO open BSO open (but less effect than 0-10) Sport clubs for children < 27 allowed All age classes except 0-10 0.05 added for opening terraces	
		10-20	0.30		
20-30		0.20			
	30-100	0.15			
Other	0-100	0.92	non-essential shops open, but still 2 visitors allowed at home		
Open up ()	Contactmatrices_openup-step3				
Prims schools open, sec schools/MBO open; universities partly open; BSO open; working from home required; non-essential shops open as before winter lockdown, bars inside closed, but terraces open. Dinner inside allowed. Max group size inside 30. Doorstroom buiten (zoo, pretparken) en binnen (musea) open, theaters etc max 30; sport clubs open outside, some inside sports allowed; max 4 people outside; max 4 person invited at home	Home	0-100	0.95	Max 4 persons at home for visiting; visits by thuiszorg, mantelzorg, loodgieter not affected	
	Work	0-100	0.689	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 20% winkelpersoneel + 50% horecapersoneel + 75% leisure personeel	
		School	0-10		1.00
			10-20		0.60
		20-100	0.37	$0.214 + (1-0.214)*0.2$	
	Transport	0-100	0.60	$0.65*0.689 + 0.35*(0.60 + 0.50 + 7*0.40)/9$	
	Leisure	0-10	0.60	BSO and outside leisure allowed Measures similar to 28 sep 2020 but estimates slightly higher (because underestimated before)	
		10-20	0.50		
20-100		0.40			
Other	0-100	0.95	non-essential shops open, 4 visitors allowed at home		
Open up (5 jun – 25 jun 2021)	Contactmatrices_openup-step3-VOopen				
Prims schools open, sec schools/MBO/					
	Work	0-100	0.689	Comparable to march lockdown but prim and sec	

universities partly open; BSO open; working from home required; non-essential shops open as before winter lockdown, bars inside closed, but terraces open. Dinner inside allowed. Max group size inside 30. Doorstroom buiten (zoo, pretparken) en binnen (musea) open, Open up (10 jul – 31 aug 2021) Education closed for summer holiday; working from home required; non-essential shops open; bars, restaurants, terraces open (with checks and reservations). Max group size inside 100 (or more if possible). Doorstroom buiten (zoo, pretparken) en binnen (musea) open, theaters, etc open (max 100 or more); sport clubs open; max 8 (or more if possible) people outside; max 8 person invited at home	Work	0-100	0.689	Comparable to march lockdown but prim and sec school teachers and 85% univ teachers at work + contact professions + 20% winkelpersoneel + 50% horecapersoneel + 75% leisure personeel
	Transport	0-100	0.60	$0.65 * 0.689 + 0.35 * (0.60 + 0.50 + 7 * 0.40) / 9$
	Leisure	0-10 10-20 20-100	0.60 0.50 0.40	BSO and outside leisure allowed Measures similar to 28 sep 2020 but estimates slightly higher (because underestimated before)
	Other	0-100	0.95	non-essential shops open, 4 visitors allowed at home
Education closed for summer holiday; working from home required; non-essential shops open; bars, restaurants, terraces open (with checks and reservations). Max group size inside 100 (or more if possible). Doorstroom buiten (zoo, pretparken) en binnen (musea) open, theaters, etc open (max 100 or more); sport clubs open; max 8 (or more if possible) people outside; max 8 person invited at home	Contactmatrices_openup-step4			
	Home	0-100	1.00	Max 8 persons at home for visiting; back to normal
	Work	0-100	0.800	prim and sec school teachers and 85% univ teachers at work + contact professions + 80% winkelpersoneel + 100% horecapersoneel + 90% leisure personeel
	School	0-10 10-20 20-100	1.00 0.87 0.37	Kdv/basisschool open Sec schools & MBO open (18-19 yo 20% open) $0.214 + (1-0.214) * 0.8 + (1-0.214) * 0.2 * 0.2$ HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214) * 0.2$
	Transport	0-100	0.82	$0.65 * 0.8 + 0.35 * (2 * 1 + 7 * 0.80) / 9$
	Leisure	0-20 20-100	1.00 0.80	Most leisure allowed, more than in batch3 2020
	Other	0-100	1.00	non-essential shops open, 8 visitors allowed at home; back to normal
	Contactmatrices_openup-step4-overshoot			
	Home	0-100	1.00	Max 8 persons at home for visiting; back to normal
	Work	0-100	0.800	prim and sec school teachers and 85% univ teachers at work + contact professions + 80% winkelpersoneel + 100% horecapersoneel + 90% leisure personeel
School	0-10 10-20 20-100	1.00 0.87 0.37	Kdv/basisschool open Sec schools & MBO open (18-19 yo 20% open) $0.214 + (1-0.214) * 0.8 + (1-0.214) * 0.2 * 0.2$ HBOWO 20% open (1 dagdeel) $0.214 + (1-0.214) * 0.2$	
Transport	0-100	0.862	$0.65 * 0.8 + 0.35 * (2 * 1 + 1 * 2 + 6 * 0.80) / 9$	
Leisure	0-20 20-30 30-100	1.00 2.00 0.80	Most leisure allowed, more than in batch3 2020 Overshoot due to opening nightclubs (post hoc)	
Other	0-100	1.00	non-essential shops open, 8 visitors allowed at home; back to normal	
Education closed for summer holiday; working from home required; non-essential shops open; bars, restaurants, terraces	Contactmatrices_openup-step4-summerholiday			
	Home	0-100	1.00	Max 8 persons at home for visiting; back to normal
Work	0-100	0.672	prim and sec school teachers and 85% univ teachers at work + contact professions + 80% winkelpersoneel + 100% horecapersoneel + 90% leisure personeel, gives 0.800 , but multiplied by factor 0.84 due to summer holiday (CoMix summer	

open (with checks and reservations). Max group size inside 100 (or more if possible). Doorstroom buiten (zoo, pretparken) en binnen (musea) open, theaters, etc open (max 100 or more); sport				2020)
	School	0-100	0.214	Summer holiday, only residual contacts left
	Transport	0-100	0.73	$0.65 * 0.672 + 0.35 * (2 * 1 + 7 * 0.80) / 9$
	Leisure	0-20 20-100	1.00 0.80	Most leisure allowed, more than in batch3 2020
	Other	0-100	1.00	non-essential shops open, 8 visitors allowed at home; back to normal
Open up (1 sep – 24 sep 2021) (or more if possible) people outside, max 8 All education open (but person invited at home max 75 persons and face masks in corridors; working from home required; shops, bars, restaurants, terraces open. Nightclubs closed, early closing bars. Max group size inside 100 (or more if possible). Doorstroom leisure open; theaters, etc open (with testing if 1.5m is not possible); sport clubs open	Contactmatrices_openup-step4-startschoolyear			
	Home	0-100	1.00	back to normal
	Work	0-100	0.800	prim and sec school teachers and 85% univ teachers at work + contact professions + 80% winkelpersoneel + 100% horecapersoneel + 90% leisure personeel
	School	0-100	1.00	All education open
	Transport	0-100	0.82	$0.65 * 0.8 + 0.35 * (2 * 1 + 7 * 0.80) / 9$
	Leisure	0-20 20-100	1.00 0.80	Most leisure allowed, more than in batch3 2020
	Other	0-100	1.00	back to normal
Open up (25 sep – 17 okt 2021 & 31 okt – 12 nov 2021) Measures lifted (1.5 m, working from home, etc) nightclubs and horeca open till midnight, testing for events > 75 persons required. CTB required for horeca inside, theaters, events. Venues without seating at 75% capacity	Contactmatrices_openup-step5			
	Home	0-100	1.00	back to normal
	Work	0-100	0.921	Teachers, contact professions, winkelpersoneel, horecapersoneel and leisure personeel at 100% (leads to 0.842), remaining gap filled for 50% due to less working from home
	School	0-100	1.00	All education open
	Transport	0-100	0.921	$0.65 * 0.921 + 0.35 * (2 * 1 + 7 * 0.90) / 9$
	Leisure	0-20 20-100	1.00 0.90	Most leisure allowed, more than in batch3 2020
	Other	0-100	1.00	back to normal
Open up (18 okt – 30 okt 2021) School holiday for prim and sec schools: two weeks at 50%. Measures lifted (1.5 m, working from home, etc) nightclubs and horeca open till midnight, testing for events > 75 persons required. CTB required for horeca inside, theaters, events. Venues without seating at 75% capacity	Contactmatrices_openup-step5-autumnholiday			
	Home	0-100	1.00	back to normal
	Work	0-100	0.891	Teachers, contact professions, winkelpersoneel, horecapersoneel and leisure personeel at 100% (leads to 0.842), remaining gap filled for 50% due to less working from home TEACHERS FREE
	School	0-10 10-20 20-100	0.61 0.69 1.00	$0.214 + (1 - 0.214) * 0.5$ $1 - (1 - 0.214) * (0.28 + 0.52) * 0.5$ Hoger onderwijs open
	Transport	0-100	0.902	$0.65 * 0.891 + 0.35 * (2 * 1 + 7 * 0.90) / 9$
	Leisure	0-20 20-100	1.00 0.90	Most leisure allowed, more than in batch3 2020
	Other	0-100	1.00	back to normal
Open up () Measures lifted (1.5 m, working from home, etc), testing for events > 75 persons required. CTB required for horeca inside at night, theaters, events.	Contactmatrices_openup-step6			
	Home	0-100	1.00	back to normal
	School	0-100	1.00	All education open

No more CTB at sports canteens, horeca during the day. Nightclubs and bars normal closing hours, venues without seating at 100% capacity	School	0-100	1.00	All education open
	Leisure	0-20 20-100	1.00 1.00	Most leisure allowed, but not all back to normal
	Other	0-100	1.00	back to normal
	Contactmatrices_openup-step6-overshoot			
Open up () Measures lifted (1.5 m, working from home, etc), testing for events > 75 persons required. CTB required for horeca inside at night, theaters, events. No more CTB at sports canteens, horeca during the day. Nightclubs and bars normal closing hours, venues without seating at 100% capacity	Home	0-100	1.00	back to normal
	Work	0-100	0.921	Teachers, contact professions, winkelpersoneel, horecapersoneel and leisure personeel at 100% (leads to 0.842), remaining gap filled for 50% due to less working from home
	School	0-100	1.00	All education open
	Transport	0-100	1.00	$0.65*0.921 + 0.35*(2*1 + 7*1.20)/9$
	Leisure	0-20 20-100	1.00 1.20	Most leisure allowed, but not all Overshoot expected (but less than in Jul 2021)
	Other	0-100	1.00	back to normal
	Contactmatrices_openup-step5-min10leisure			
Open up () Measures lifted (1.5 m, working from home, etc) nightclubs and horeca open till midnight, testing for events > 75 persons required. CTB required for horeca inside, theaters, events. Venues without seating at 75% capacity	Home	0-100	1.00	back to normal
	Work	0-100	0.921	Teachers, contact professions, winkelpersoneel, horecapersoneel and leisure personeel at 100% (leads to 0.842), remaining gap filled for 50% due to less working from home
	School	0-100	1.00	All education open
	Transport	0-100	0.894	$0.65*0.921 + 0.35*(2*1 + 7*0.80)/9$
	Leisure	0-20 20-100	1.00 0.80	Most leisure allowed, more than in batch3 2020 10 percent point reduction for sensitivity analysis
	Other	0-100	1.00	back to normal
Winter2122 (13 nov – 27 nov 2021) Max 4 people at home, facemasks in public spaces inside, 1.5 m distance obligatory, working from home strongly advised, nightclubs and horeca and supermarkets open till 8pm, shops, contact professions open till 6pm, events allowed up to 1250 persons till 6 pm. QR code (3G) required for theaters, events, horeca, terraces, leisure inside (museums), hobbyclubs. Max group size of 75 in university. No audience for sports (professional and amateur).	Contactmatrices_winter2122-lockdownlight			
	Home	0-100	0.95	Max 4 persons at home
	Work	0-100	0.794	prim and sec school teachers and univ teachers at work + 80% contact professions + 80% winkelpersoneel + 70% horecapersoneel + 100% leisure personeel
	School	0-100	1.00	All education open
	Transport	0-100	0.784	$0.65*0.794 + 0.35*(2*1 + 7*0.70)/9$
	Leisure	0-20 20-100	1.00 0.70	Most leisure allowed No bars and restaurants after 8pm, no watching sports
	Other	0-100	0.95	Max 4 persons at home
	Contactmatrices_winter2122-eveninglockdown			
Winter2122 (28 nov – 19 dec 2021) Max 4 people at home, facemasks in public spaces inside, 1.5 m distance obligatory, working from home strongly advised, supermarkets open till	Home	0-100	0.95	Max 4 persons at home
	Work	0-100	0.702	prim and sec school teachers and univ teachers at work + 70% contact professions + 70% winkelpersoneel + 30% horecapersoneel + 30% leisure personeel
	Transport	0-100	0.577	$0.65*0.702 + 0.35*(2*0.50 + 7*0.30)/9$

<p>8pm, horeca and shops, contact professions, theaters, events, cinemas, sports</p> <p>Winter2122 ()</p> <p>Max 4 people at home, facemasks in public spaces inside, 1.5 m distance obligatory, working from home strongly advised, supermarkets open till 8pm, horeca and shops, contact professions, theaters, events, cinemas, sports open till 5pm, events allowed up to 1250 persons till 5 pm. QR code (3G) required for theaters, events, horeca, terraces, leisure inside (museums), hobbyclubs. Max group size of 75 in university. No audience for sports (professional and amateur).</p>	Transport	0-100	0.577	$0.65 * 0.702 + 0.35 * (2 * 0.50 + 7 * 0.30) / 9$	
	Other	0-100	0.95	Max 4 persons at home	
	Contactmatrices_winter2122-lockdownlight-christmas				
	Home	0-100	1.00	Max 4 persons at home, slight increase due to more visits	
	Work	0-100	0.659	prim and sec school teachers and univ teachers at home + 80% contact professions + 80% winkelpersoneel + 70% horecapersoneel + 100% leisure personeel, + additional reduction 0.05 for holiday for persons not able to work from home	
	School	0-100	0.214	Christmas holiday	
	Transport	0-100	0.697	$0.65 * 0.659 + 0.35 * (2 * 1 + 7 * 0.70) / 9$	
	Leisure	0-20 20-100	1.00 0.70	Most leisure allowed No bars and restaurants after 8pm, no watching sports	
	Other	0-100	0.95	Max 4 persons at home	
	<p>Winter2122 ()</p> <p>Max 4 people at home, facemasks in public spaces inside, 1.5 m distance obligatory, working from home strongly advised, supermarkets open till 8pm, horeca and shops, contact professions, theaters, events, cinemas, sports open till 5pm, events allowed up to 1250 persons till 5 pm. QR code (3G) required for theaters, events, horeca, terraces, leisure inside (museums), hobbyclubs. Max group size of 75 in university. No audience for sports (professional and amateur).</p>	Contactmatrices_winter2122-eveninglockdown-christmas			
Home		0-100	1.00	Max 4 persons at home, slight increase due to more visits	
Work		0-100	0.567	prim and sec school teachers and univ teachers at home + 70% contact professions + 70% winkelpersoneel + 30% horecapersoneel + 30% leisure personeel + additional reduction 0.05 for holiday for persons not able to work from home	
School		0-100	0.214	Christmas holiday	
Transport		0-100	0.489	$0.65 * 0.567 + 0.35 * (2 * 0.50 + 7 * 0.30) / 9$	
Leisure		0-20 20-100	0.50 0.30	No leisure and sports after 5pm	
Other		0-100	0.95	Max 4 persons at home	
<p>Winter2122 ()</p> <p>Max 4 people at home, prim schools closed, facemasks in public spaces inside, 1.5 m distance obligatory, working from home strongly advised, supermarkets open till 8pm, horeca and shops, contact professions, theaters, events, cinemas, sports open till 5pm, events allowed up to 1250 persons till 5 pm. QR</p>	Contactmatrices_winter2122-eveninglockdown-prechristmas				
	Home	0-100	0.95	Max 4 persons at home	
	Work	0-100	0.672	Prim school teachers at home and sec school teachers and univ teachers at work + 70% contact professions + 70% winkelpersoneel + 30% horecapersoneel + 30% leisure personeel	
	School	0-10 10-20 20-100	0.214 0.78 1.00	Kdv/basischool closed $0.214 + (1 - 0.214) * (1 - 0.28)$ Hoger onderwijs dicht	
	Transport	0-100	0.557	$0.65 * 0.672 + 0.35 * (2 * 0.50 + 7 * 0.30) / 9$	
	Leisure	0-20 20-100	0.50 0.30	No leisure and sports after 5pm	
	Other	0-100	0.95	Max 4 persons at home	

code (3G) required for theaters, events, horeca, terraces, leisure inside (museums), hobbyclubs. Max group size of 75 in university. No audience for sports (professional and amateur).				
<p>Winter lockdown (20 dec – 24 dec 2021)</p> <p>Schools, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under-18's; max 2 people outside; max 2 people invited at home</p>	Contactmatrices_winter-lockdown (let op: ook in winter2021 gebruikt)			
	Home	0-100	0.85	Max 2 people at home
	Work	0-100	0.483	Comparable to march lockdown
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.36	$0.65*0.483 + 0.35*(0.30 + 0.20 + 7*0.102)/9$
	Leisure	0-10	0.30	Sport clubs for children < 18 allowed
		10-20	0.20	
20-100		0.102		
Other	0-100	0.889	Comparable to march lockdown (less shops and more contacts cancel out)	
<p>Christmas holiday with winter lockdown (25 dec 2021 – 9 jan 2022)</p> <p>Schools, universities closed; working from home required; non-essential shops closed, bars closed, all leisure closed; sport clubs only open outside for under-18's; max 2 people outside; max 2 people invited at home (3-4 during christmas days)</p>	Contactmatrices_winter-lockdown-christmas (let op: ook in winter2021 gebruikt)			
	Home	0-100	1.00	Max 2 people at home, max 3-4 people at home during christmas days, but overall increase in home visits
	Work	0-100	0.43	Comparable to march lockdown, but also holiday for persons not able to work from home
	School	0-100	0.214	Schools closed, some residual contacts as compensation
	Transport	0-100	0.33	$0.65*0.43 + 0.35*(0.30 + 0.20 + 7*0.102)/9$
	Leisure	0-10	0.30	Sport clubs for children < 18 allowed
		10-20	0.20	
20-100		0.102		
Other	0-100	0.95	Comparable to march lockdown (more contacts and less shops do not cancel out)	