

"This supplementary material is hosted by *Eurosurveillance* as supporting information alongside the article Impact of physical distancing measures against COVID-19 on contacts and mixing patterns: repeated cross-sectional surveys, the Netherlands, 2016-17, April 2020 and June 2020, on behalf of the authors, who remain responsible for the accuracy and appropriateness of the content. The same standards for ethics, copyright, attributions and permissions as for the article apply. Supplements are not edited by *Eurosurveillance* and the journal is not responsible for the maintenance of any links or email addresses provided therein."

S1.1 Household size distribution over age classes

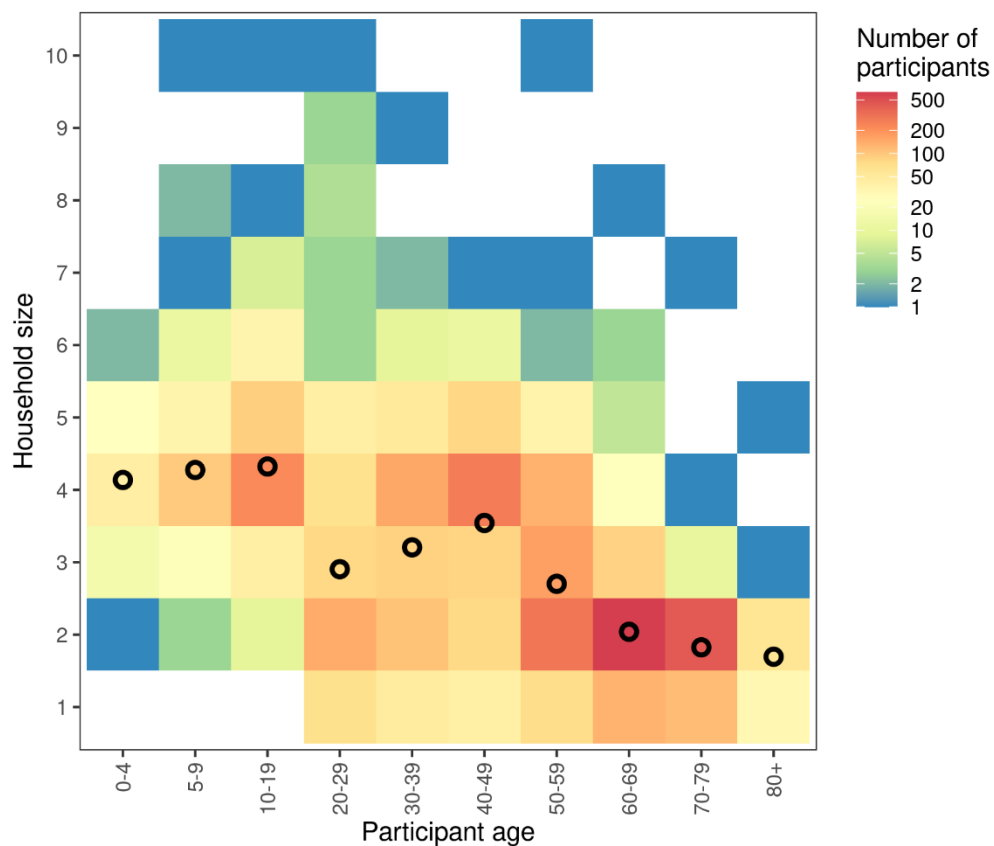


Figure S1 Household sizes reported by participants in het June 2020 survey, with frequency (color shadings) and the mean household size (black circle).

S1.2 Fraction of close community contacts

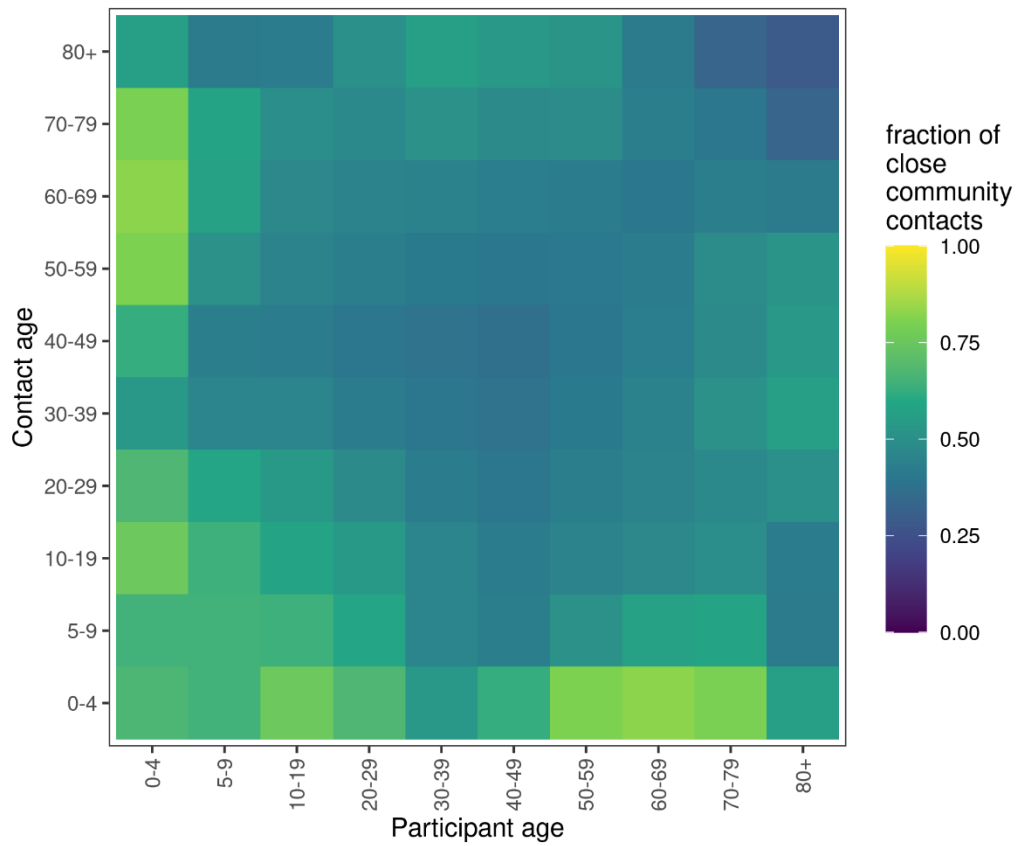


Figure S2 Fraction of close community contacts per participant between different age groups for the June 2020 survey. Close contacts were defined within 1.5 m.

S1.3 Weighted number of community contacts per participant

Table S1 Number of community contacts per participant in the baseline survey in 2016/2017, the April 2020 survey, and the June 2020 survey in the Netherlands (mean and interquartile range). Unweighted values (default) compared to values weighted values by participant age, participant sex, household size and contact day.

	baseline	April 2020	June 2020
	mean (IQR)	mean (IQR)	mean (IQR)
Unweighted	14.9 (4 - 20)	3.5 (0 - 4)	8.8 (1 - 10)
Weighted by			
Participant age	14.5 (4 - 19)	3.4 (0 - 4)	9.7 (1 - 13)
Participant sex	14.9 (4 - 20)	3.5 (0 - 4)	8.8 (1 - 10)
Household size	14.9 (4 - 20)	3.5 (0 - 4)	8.8 (1 - 11)
Contact day	15.0 (4 - 20)	3.6 (0 - 4)	9.4 (1 - 11)

S1.4 Number of community contacts per participant throughout the year

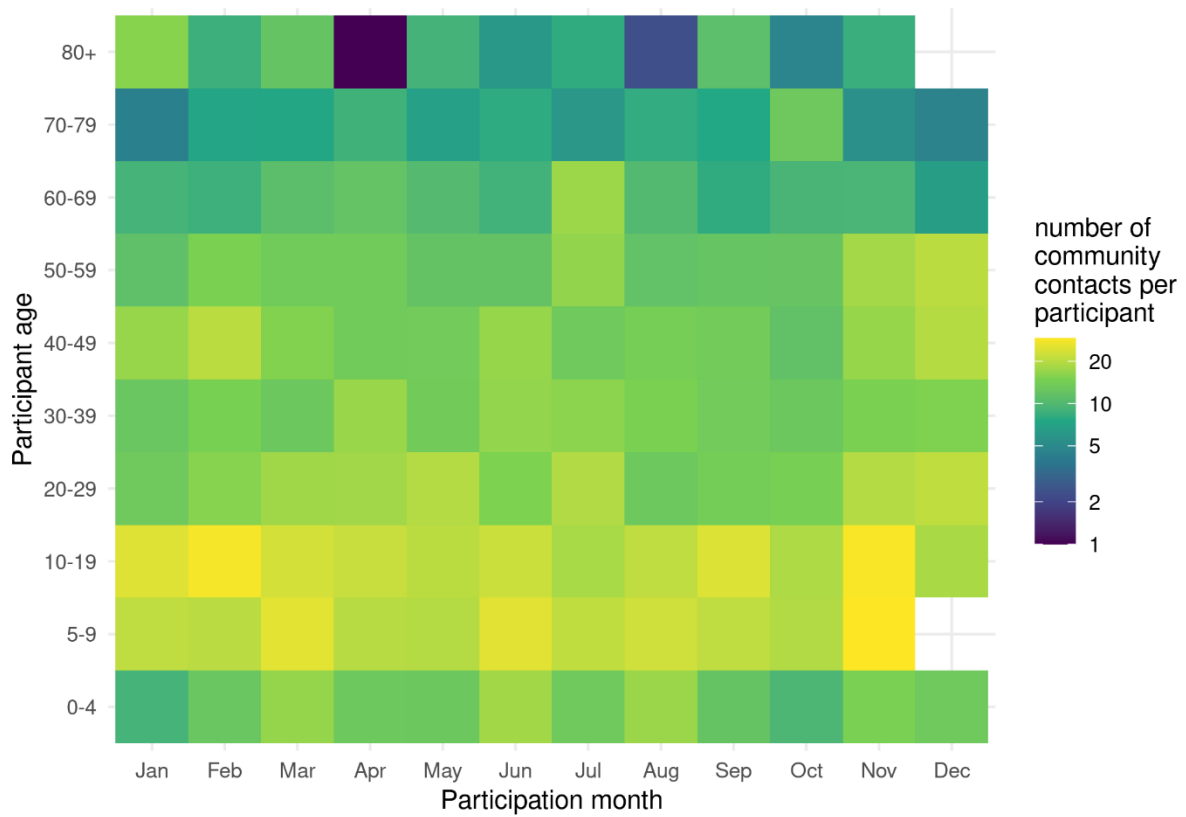


Figure S3 Number of community contacts per participant by age group throughout the year, as measured in baseline survey (2016/2017).

S1.5 Contact analysis of participants common to all surveys

In total 1739 participants were common to all three surveys. Their mean age was 40 years (range 0 – 86) in the baseline survey and 44 years (range 3 – 90) in the 2020 surveys. Also other characteristics of this group correspond to the participant characteristics of the full surveys (compare Fig S3 and Tab S2 to Fig 1 and Tab 1 in main text).

The percentage of these 1739 participants who did not report any community contacts increased from 4% (cf. 5%) in the baseline survey to 43% (cf. 42%) in the April 2020 survey, and decreased again to 21% (cf. 22%) in the June 2020 survey. The average number of community contacts a participant reported per day, decreased from 15.4 (cf. 14.9) in the baseline survey to 3.4 (cf. 3.5) in the April 2020 survey, and increased to 9.5 (cf. 8.8) in the June 2020 survey (Tab. S3). Also other contact reductions for the 1739 participants are similar to reductions found in the full surveys (compare Tab S3 and Fig S4 to Tab 2 and Fig 2 in main text).

The effective number of contacts per person (i.e. the largest eigenvalue of the contact matrix) is somewhat higher for the 1739 participants compared to the full survey, but shows the same trend: 21 (16 – 26, 95% credible interval) in the baseline survey, 5.8 (4.9 – 6.2) in the April 2020 survey, and 22 (14 – 31) in the June 2020 survey.

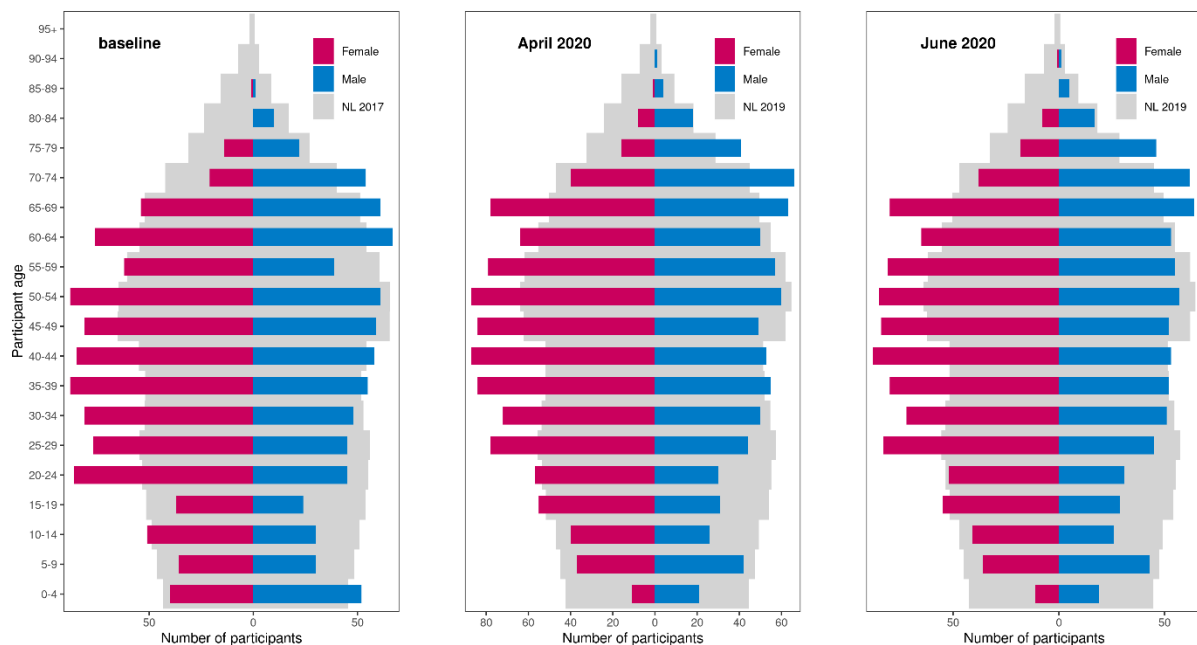


Figure S4 Composition according to age and sex of 1739 participants common to the baseline survey in 2016/2017, the April 2020 survey, and the June 2020 survey in the Netherlands; compared to the Dutch population in 2017, 2019 and 2019, respectively.

Table S2 Characteristics of participants common to the baseline survey in 2016/2017, the April 2020 survey, and the June 2020 survey in the Netherlands.

	baseline	April 2020	June 2020
	n (%)	n (%)	n (%)
Total	1739 (100)	1739 (100)	1739 (100)
Participant age group			
0-4	92 (5.3)	32 (1.8)	30 (1.7)
5-9	66 (3.8)	79 (4.5)	79 (4.5)
10-19	142 (8.2)	152 (8.7)	151 (8.7)
20-29	253 (14.5)	209 (12)	211 (12.1)
30-39	272 (15.6)	261 (15)	255 (14.7)
40-49	283 (16.3)	273 (15.7)	277 (15.9)
50-59	250 (14.4)	283 (16.3)	278 (16)
60-69	258 (14.8)	255 (14.7)	262 (15.1)
70-79	111 (6.4)	163 (9.4)	164 (9.4)
80+	12 (0.7)	32 (1.8)	32 (1.8)
Participant sex			
Female	978 (56.2)	978 (56.2)	978 (56.2)
Male	761 (43.8)	761 (43.8)	761 (43.8)
Household size			
1	237 (13.6)	140 (8.1)	132 (7.6)
2	693 (39.9)	649 (37.3)	665 (38.2)
3	230 (13.2)	303 (17.4)	283 (16.3)
4	394 (22.7)	449 (25.8)	454 (26.1)
5	149 (8.6)	155 (8.9)	160 (9.2)
6+	36 (2.1)	43 (2.5)	45 (2.6)
Contact day			
Monday	315 (18.1)	439 (25.2)	337 (19.4)
Tuesday	285 (16.4)	465 (26.7)	354 (20.4)
Wednesday	158 (9.1)	312 (17.9)	293 (16.8)
Thursday	80 (4.6)	170 (9.8)	172 (9.9)
Friday	151 (8.7)	83 (4.8)	88 (5.1)
Saturday	264 (15.2)	65 (3.7)	138 (7.9)
Sunday	344 (19.8)	203 (11.7)	356 (20.5)
(Missing)	142 (8.2)	2 (0.1)	1 (0.1)

Table S3 Number of community contacts per participant for 1739 participants common to the baseline survey in 2016/2017, the April 2020 survey, and the June 2020 survey in the Netherlands (mean and interquartile range).

	baseline mean (IQR)	April 2020 mean (IQR)	June 2020 mean (IQR)
Total	15.4 (5 - 21)	3.4 (0 - 4)	9.5 (1 - 11)
Participant age			
0-4	12.2 (3 - 19)	1.9 (0 - 3)	22.8 (6 - 32)
5-9	27.0 (9 - 36)	2.1 (0 - 3)	28.5 (8 - 40)
10-19	23.4 (9 - 34)	3.1 (0 - 4)	16.5 (2 - 26)
20-29	18.3 (6 - 25)	3.3 (0 - 5)	9.8 (1 - 12)
30-39	15.3 (5 - 19)	4.1 (0 - 5)	10.3 (2 - 13)
40-49	16.8 (6 - 22)	4.5 (0 - 4)	9.5 (2 - 12)
50-59	13.1 (4 - 17)	4.6 (0 - 6)	6.3 (1 - 8)
60-69	9.9 (3 - 12)	2.2 (0 - 3)	5.9 (0 - 6)
70-79	8.7 (2 - 12)	1.8 (0 - 2)	2.5 (0 - 4)
80+	11.5 (3 - 8)	0.7 (0 - 1)	3.3 (0 - 4)
Participant sex			
Female	15.4 (5 - 20)	3.1 (0 - 4)	9.5 (1 - 11)
Male	15.3 (4 - 21)	3.8 (0 - 4)	9.6 (1 - 11)
Household size			
1	13.9 (3 - 19)	3.0 (0 - 3)	5.5 (0 - 5)
2	13.5 (4 - 17)	2.9 (0 - 3)	6.3 (0 - 7)
3	15.0 (4 - 20)	3.9 (0 - 5)	10.1 (2 - 13)
4	17.6 (6 - 23)	3.7 (0 - 4)	12.0 (2 - 15)
5	19.1 (7 - 28)	3.9 (0 - 4)	15.3 (1 - 21)
6+	23.9 (10 - 34)	3.8 (0 - 5)	20.7 (2 - 29)
Contact day			
Monday	18.0 (5 - 25)	3.1 (0 - 4)	11.3 (2 - 12)
Tuesday	16.5 (6 - 23)	3.4 (0 - 4)	9.1 (1 - 11)
Wednesday	16.7 (5 - 20)	3.7 (0 - 4)	11.4 (2 - 14)
Thursday	19.4 (6 - 34)	4.4 (0 - 5)	11.3 (2 - 15)
Friday	15.4 (5 - 20)	4.0 (0 - 5)	12.2 (2 - 13)
Saturday	13.2 (4 - 17)	4.1 (0 - 4)	8.3 (2 - 9)
Sunday	11.5 (3 - 14)	2.4 (0 - 3)	5.7 (0 - 5)
(Missing)	17.1 (6 - 24)	3.0 (3 - 3)	2.0 (2 - 2)

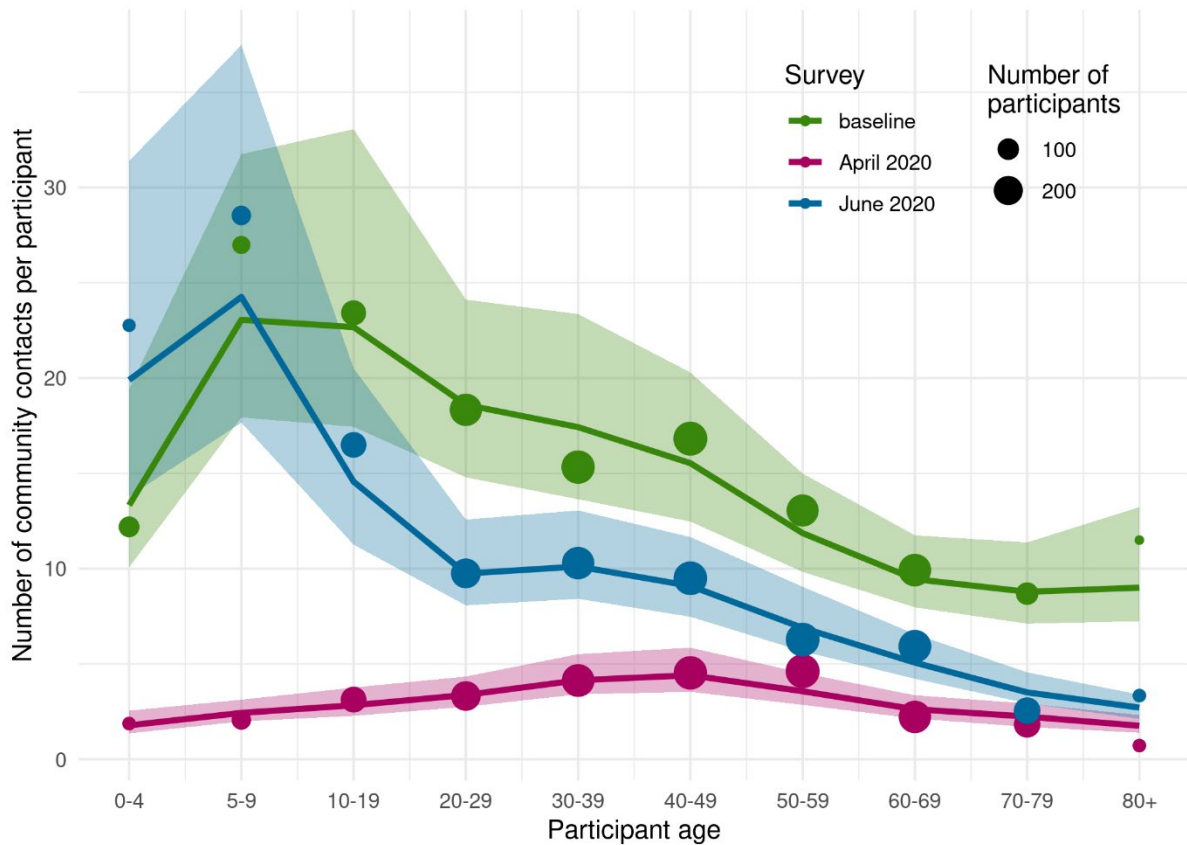


Figure S5 Number of community contacts per participant per age group for 1739 participants common to the baseline survey in 2016/2017 (green), the April 2020 survey (red), and the June 2020 survey (blue) in the Netherlands; shown are the estimated mean numbers of contacts after accounting for reciprocity in contacts (line) with the corresponding 95% credible interval (shaded area), and the observed means (size of points scaled to number of participants).