**Supplementary file 5. Data dictionary for participant-level data**

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| **Variable name** | **Description**  |
| study | Survey country and first author of original publication  |
| income | Country-level income group, as defined by the World Bank (LIC/LMIC, UMIC, HIC) |
| method | Survey methodology (Diary, Interview). “Interview” also includes retrospectively reported phone/online surveys. |
| part\_gender | Participant gender (Female/Male |
| part\_age | Participant age |
| age3cat | Participant age group (<15, 15 to <65, 65+) |
| hh\_size | Household size |
| student | Student status (0=no, 1=yes) |
| employment | Employment status (0=no, 1=yes) |
| weekday | Survey day type (0=weekend, 1=weekday) |
| tot\_contacts | Total number of daily contacts made by a participant. This includes additional contacts, including additional work contacts, group contacts and number of contacts left out. This variable is used in the main analysis. |
| tot\_contacts\_no\_add | Total number of daily contacts made by a participant. This excludes additional contacts, such as additional work contacts, group contacts and number of contacts left out. This variable is used in a sensitivity analysis. |
| tot\_phys | Total number of contacts made by a participant that were physical |
| tot\_nonphys | Total number of contacts made by a participant that were not physical |
| tot\_dur\_under\_1hr | Total number of contacts made by a participant which lasted under 1 hour |
| tot\_dur\_1hr\_plus | Total number of contacts made by a participant which lasted an hour or longer |
| tot\_home | The number of contacts made by a participant at home |
| tot\_school | The number of contacts made by a participant at school |
| tot\_work | The number of contacts made by a participant at work including additional work contacts (main analysis) |
| tot\_work\_no\_additional | The number of contacts made by a participant at work without the inclusion of additional work contacts (sensitivity analysis) |
| tot\_other | The number of contacts made by a participant at other locations |
| tot\_miss | The number of contacts made by a participant with a missing location |
| prop\_home | Proportion of contacts that occurred at home, among those with a known location |
| prop\_school | Proportion of contacts that occurred at school, among those with a known location |
| prop\_work | Proportion of contacts that occurred at work, among those with a known location |
| prop\_other | Proportion of contacts that occurred at other locations, among those with a known location |
| prop\_cont\_male | Proportion of contacts that are male |
| prop\_cont\_female | Proportion of contacts that are female |
| prop\_cont\_age1prop\_cont\_age2prop\_cont\_age3 | Proportion of a participant’s contacts that belong to each of the 3 broad age groups (group 1= children aged 0 to 12-15; group 2= younger adults aged 13-16 to 40-49; group 3=older adults aged 41-50 or over)Contact age was given as an exact age (green) or an estimated range or age group (yellow) and was categorized into three broad age groups. A total of 5,724 contacts out of 269,662 with available age information, but where the age range given was overlapping across the category bounds, were excluded in the assortativity analysis

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|  | **Children 0 to 12-15** | **Younger adults (13-16 to 40-49)** | **Older adults (41-50 to max)** |
| **European, Mossong**  | 0 to <15 | 15 to <45 | 45+ |
| **China, Zhang** | 0 to <15 | 15 to <45 | 45+ |
| **Hong Kong, Leung** | 0 to <15 | 15 to <45 | 45+ |
| **India, Kumar** | 0 to <15 | 15 to <45 | 45+ |
| **Kenya, Kiti** | <1,1-5,6-15 | 16-19,20-49 | 50+ |
| **Peru, Grijalva** | 0 to <15 | 15 to <45 | 45+ |
| **Russia, Ajelli** | 0 to <15 | 15 to <45 | 45+ |
| **South Africa, Wood** | 0 to <15 | 15 to <45 | 45+ |
| **Uganda, Le Polain** | <2, 2-4, 5-9, 10-14 | 15-24, 25-34, 35-44, |  45-54, 55-64, 65+ |
| **Vietnam, Horby** | 0-5, 6-15 | 16-25, 26-34, 35-49 | 50-64, 65+ |
| **Zambia, Dodd** | 0-4, 5-12 | 13-25, 26-45 | 46+ |
| **South Africa, Dodd** | 0-4, 5-12 | 13-25, 26-45 | 46+ |
| **Zimbabwe, Melegaro** | 0 to <15 | 15 to <45 | 45+ |
| **Fiji, Neal** | 0 to <15 | 15 to <45 | 45+ |
| **Thailand, Majikul** | 0-4, 5-14 | 15-40 | 41+ |

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