Supplemental Material 1.COVID-19 Data Collection Agency or Institute of 23 countries and their available websites

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| Country | COVID-19 Data Collection Agency or Institute  | Available web sites |
| Australia | Australian Government Department of Health | https://www.health.gov.au/news/health-alerts/novel-coronavirus-2019-ncov-health-alert/coronavirus-covid-19-current-situation-and-case-numbers |
| Austria | Agency for Health and Food Safety (AGES) COVID19 Dashboard | https://info.gesundheitsministerium.at/dashboard\_Epidem.html?l=en |
| Bangladesh | WHO, COVID-19 Update Bangladesh situation reports | https://www.who.int/bangladesh/emergencies/coronavirus-disease-(covid-19)-update/coronavirus-disease-(covid-2019)-bangladesh-situation-reports  |
| Canada | Government of Canada | https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=1310077401&pickMembers%5B0%5D=1.1&pickMembers%5B1%5D=2.1&pickMembers%5B2%5D=3.9 |
| Chile | Ministerio de Salud de Chile | https://www.minsal.cl/nuevo-coronavirus-2019-ncov/informe-epidemiologico-covid-19/ |
| Cuba | COVID19 –Cuba data | https://covid19cubadata.github.io/#cuba |
| Czech | MINISTERSTVO ZDRAVOTNICTVI CESKE REPUBLIKY | https://onemocneni-aktualne.mzcr.cz/covid-19 |
| Denmark | Del af Statens Serum Institut | https://covid19.ssi.dk |
| Finland | Terveyden ja hyvinvoinnin laitos | https://thl.fi/fi/web/infektiotaudit-ja-rokotukset/ajankohtaista/ajankohtaista-koronaviruksesta-covid-19/tilannekatsaus-koronaviruksesta |
| Germany | ROBERT KOCH INSTITUT | https://www.rki.de/DE/Content/InfAZ/N/Neuartiges\_Coronavirus/Situationsberichte/Archiv\_Juni.html |
| Italy | L'epidemiologia per la sanità pubblica Istituto Superioredi Sanità | https://www.epicentro.iss.it/coronavirus/sars-cov-2-sorveglianza-dati |
| Japan | Ministry of Health, Labor and Welfare, Japan  | https://toyokeizai.net/sp/visual/tko/covid19/en.html |
| Mexico | GOBIERNO DE MEXICO | https://coronavirus.gob.mx/datos/ |
| Nepal | Government of Nepal Minstry of Health and Population Health Emergency and Disaster Management Unit Health Emergency Operation Operation Center (HEOC) | https://heoc.mohp.gov.np/update-on-novel-corona-virus-covid-19/  |
| Netherlands | Rijksinstituut voor Volksgezondheid en Milieu | https://www.rivm.nl/coronavirus-covid-19/actueel |
| Norway | Norwegian Institute of Public Health | https://www.fhi.no/en/id/infectious-diseases/coronavirus/daily-reports/daily-reports-COVID19/ |
| Philippines | Government of Philippines | https://covid19.gov.ph/ |
| Portugal | National Health Service and General Health Department of the Ministry of Health in Portugal | https://covid19.min-saude.pt/relatorio-de-situacao/ |
| Romania | Institutul National de Sanatate Publica Romania (CNSCBT) | http://www.cnscbt.ro/index.php/analiza-cazuri-confirmate-covid19 |
| Korea | Korea Disease Control and Prevention Agency | http://ncov.mohw.go.kr/bdBoardList\_Real.do?brdId=1&brdGubun=14&ncvContSeq=&contSeq=&board\_id=&gubun= |
|  | Central Disaster Management Headquarters, Central Disease Control Headquarters, Korea | http://ncov.mohw.go.kr/bdBoardList\_Real.do |
| Sweden | The National Board of Health and Welfare  | https://www.socialstyrelsen.se/statistik-och-data/statistik/statistik-om-covid-19/statistik-over-antal-avlidna-i-covid-19/ |
| Swiss | Federal office of public Health (FOPH) | https://www.covid19.admin.ch/en/overview |
| USA | US Centers for Disease Control and Prevention | https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html　https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Sex-Age-and-S/9bhg-hcku |

The number of age-specific population in each country was obtained as the ‘Population of world’ (https://www.livepopulation.com/).

The all of available websites could be accessed by September 30, 2020. But since October, 2020, some countries have not provided the number of age-specific cases and deaths, or have moved their official homepages elsewhere. Currently, some homepage may not work.