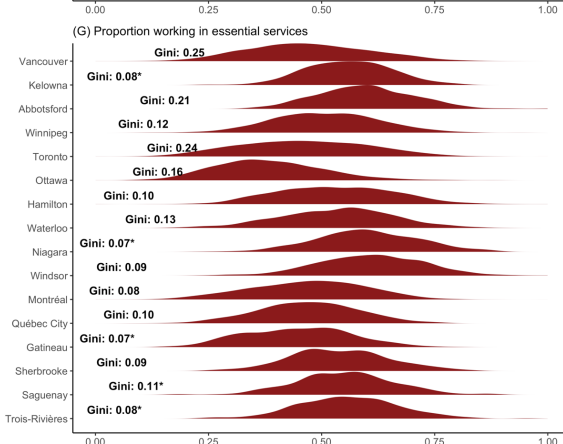
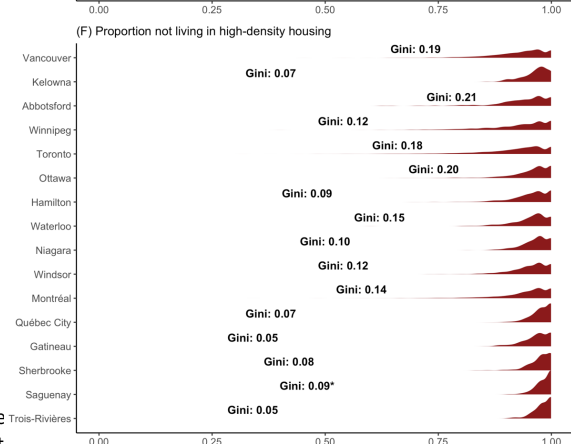
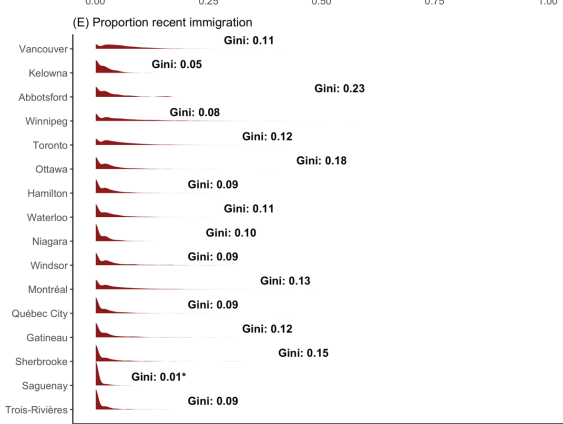
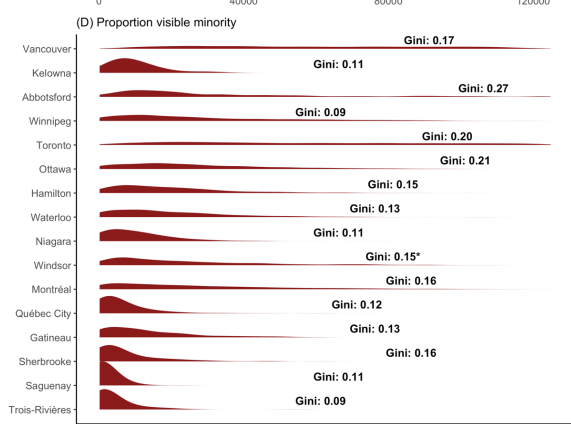
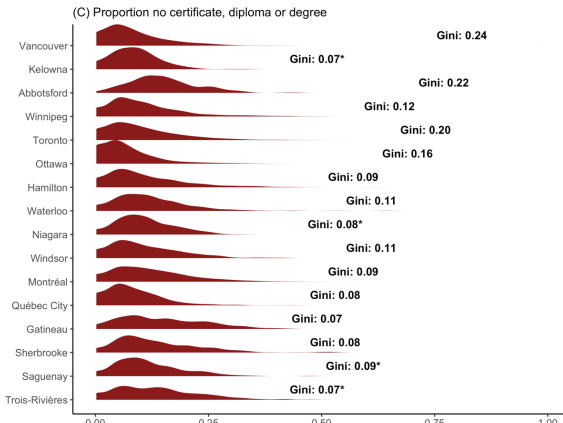
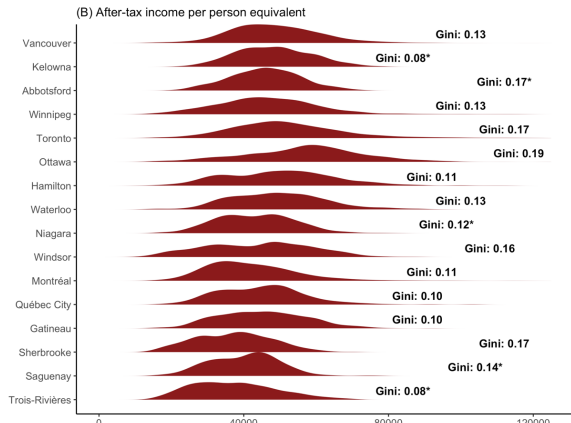
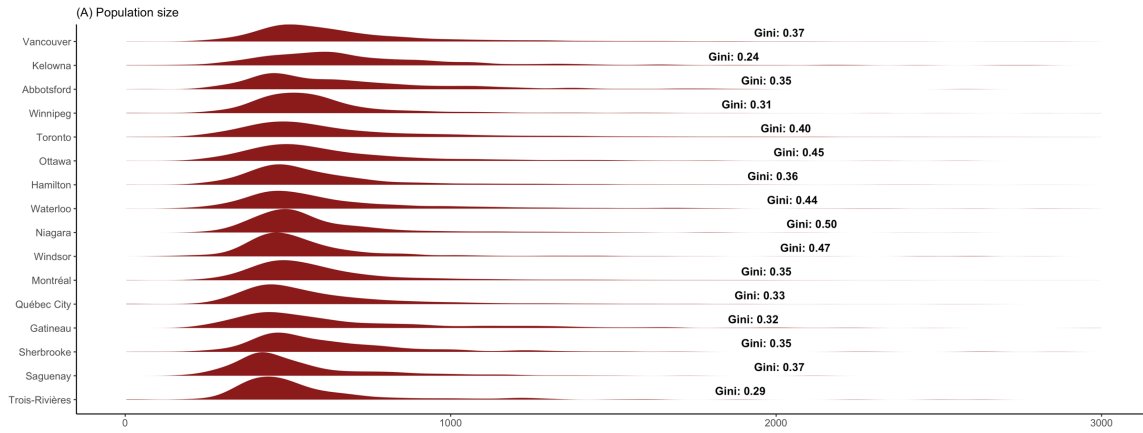


**Figure S1 The Lorenz curves of COVID-19 confirmed cases (excluding long-term care residents) by proportion of population and the corresponding Gini coefficients.** Panel A: Lorenz curves of census metropolitan areas (CMA) in British Columbia (Abbotsford-Mission is displayed as “Abbotsford”). Panel B: Lorenz curves of CMAs in Manitoba. Panel C: Lorenz curves of CMAs in Ontario (Ottawa-Gatineau (Ontario part) is displayed as “Ottawa”; Kitchener - Cambridge – Waterloo is displayed as “Waterloo”); St. Catharines–Niagara is displayed as “Niagara”). Panel D: Lorenz curves of CMAs in Québec (Ottawa-Gatineau (Québec part) is displayed as “Gatineau”). The population was ranked by the number of cases in each dissemination area (DA) from the highest to the lowest.

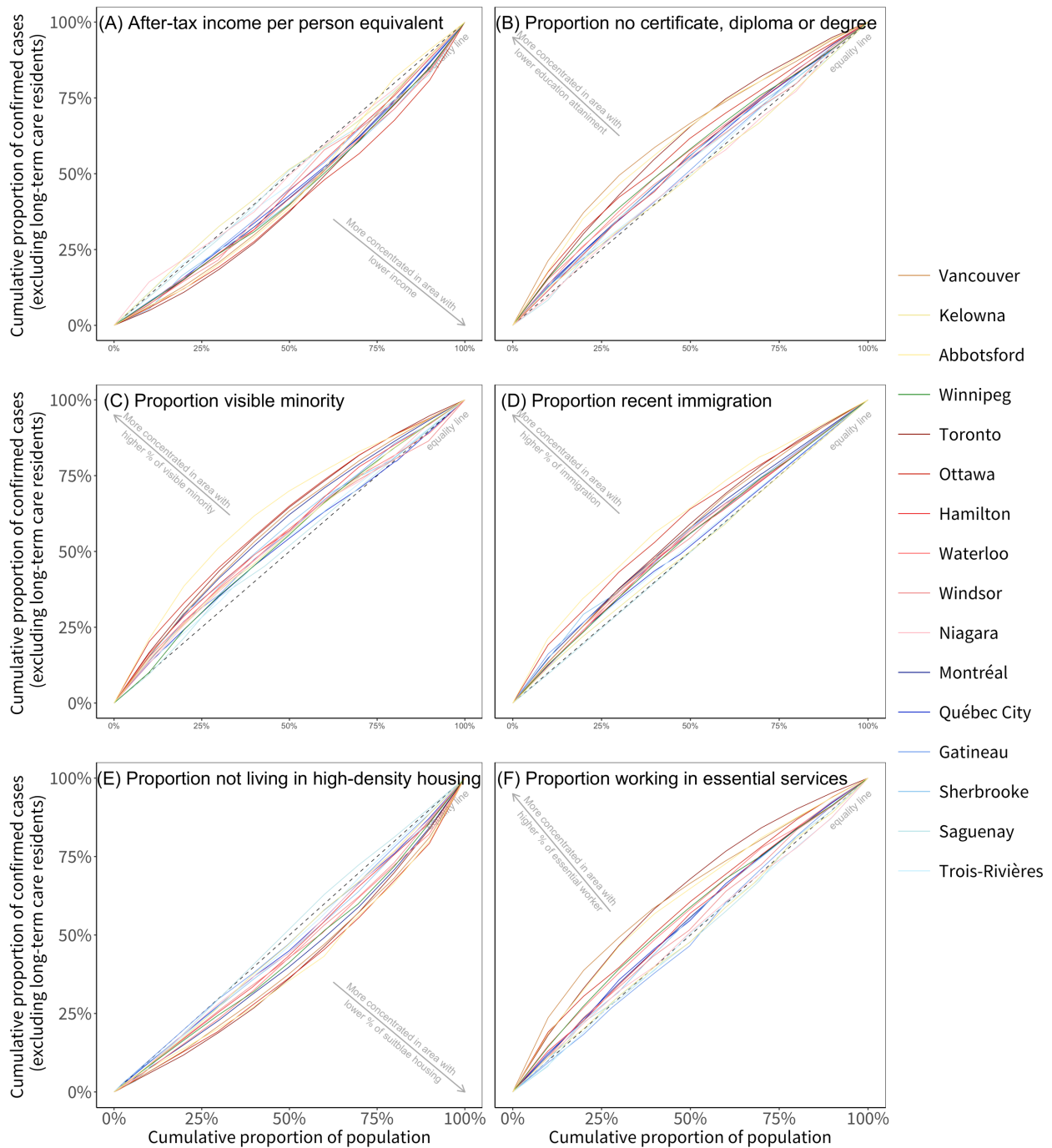


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**Figure S2 Distribution of the social determinants of health and the corresponding Gini (co-Gini) coefficients (excluding long-term care residents) of cumulative COVID-19 cases across census metropolitan areas (CMA).** This “ridgeplot” displays the *dissemination area-level* proportion visible minority on the x-axis and the y-axis represents the different CMAs. For each CMA, the distribution of proportion minority is shown. Panel A: population size. Panel B: After-tax income per person equivalent. Panel C: proportion population without certificate, diploma or degree deciles. Panel D: proportion visible minority. Panel E: proportion recent immigration. Panel F: proportion working in essential services. Panel G: proportion not living in high-density housing. Abbotsford-Mission is displayed as “Abbotsford”; Ottawa-Gatineau (Ontario part) is displayed as “Ottawa”; St. Catharines–Niagara is displayed as “Niagara”; Ottawa-Gatineau (Québec part) is displayed as “Gatineau”. Co-Gini coefficients followed by a “\*” mark represent co-Gini coefficients of those Lorenz curves that went over and under the equality line.



**Figure S3 The concentration curves of COVID-19 confirmed cases (excluding long-term care residents) by social determinants.** Panel A: after-tax income per-person equivalent deciles. Panel B: proportion population without certificate, diploma or degree deciles. Panel C: proportion visible minority deciles. Panel D: proportion recent immigration deciles. Panel E: proportion working in essential services deciles. Panel F: proportion not living in high density housing deciles. Abbotsford-Mission is displayed as “Abbotsford”; Ottawa-Gatineau (Ontario part) is displayed as “Ottawa”; St. Catharines–Niagara is

displayed as “Niagara”; Ottawa-Gatineau (Québec part) is displayed as “Gatineau”. All the variables were ranked from the highest value to the lowest.