Chart, histogram

Description automatically generated

**Figure XX:** For both plots, facilities with fewer than 20 non-missing data points (>65% missingness) are excluded. Then, all remaining pairs facilities in the same district are used. In the left plot, for a given pair of facilities in the same district, the correlation between each facility’s time series of ARI counts is calculated. The plot shows the distribution of all the correlation values. For the right plot, the baseline model is fit for each facility and the deviance residuals at each time point are computed. Then for a given pair of facilities in the same district, the correlation of their deviance residuals is calculated. The mean correlation is shown in red (0.129 for the left and 0.073 for the right).