## Supplemental File

Interrupted Time Series Segmented Regression Model

$$Y_t = \beta_0 + \beta_1 COVID_t + \beta_2 Month_t + \beta_3 (Month after COVID onset)_t + \varepsilon_t$$

Where,  $Y_t$  is the ALC rate measured at time t;

"*COVID*" is an indicator variable coded as 0 for pre-COVID period (i.e., the period before March 2020) and 1 for the period of COVID presence (i.e., the period after March 2020);

"Month" is the number of months from the start of the study;

"Month after COVID onset" indicates the number of months after COVID presence and takes value 0 for pre-COVID period;

 $\beta_0$  is the intercept estimating the initial ALC rate at month 0 (i.e., February 2018);

 $\beta_1$  estimates the change in level of ALC rate for post/onset COVID period (i.e., After March 2020);

 $\beta_2$  is the pre-COVID slope and measures the change in ALC rates in the pre-COVID segments;

 $\beta_3$  is the change in the monthly slope after March 2020;

 $\varepsilon_t$  is the error term for month t which is assumed to be normally distributed with stable variance and first order autocorrelation.