

Supplementary Table 1: Regression output for difference in topic proportions before and after AstraZeneca halted Phase 3 vaccine trials (September 8 2020)

| Topic                     | (1)           | (2)           | (3)           | (4)           | (5)           | (6)           | (7)           | (8)          | (9)           | (10)          | (11)          | (12)          | (13)          | (14)          | (15)          | (16)          | (17)         | (18)          | (19)         | (20)          |
|---------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|--------------|---------------|
| (Intercept)               | -3.294e-02**  | 1.293e-01***  | 5.171e-02***  | 2.670e-02*    | 8.675e-02***  | 5.019e-02***  | -6.125e-02*** | 4.684e-02*** | 9.726e-02***  | 1.07e-2       | 7.712e-02***  | 1.171e-01***  | 1.172e-01***  | 5.679e-02***  | 2.068e-02***  | 5.77e-3       | 4.821e-02*** | 8.585e-02***  | 1.96e-2      | 4.618e-02***  |
| Score                     | 6.38e-7       | 4.21e-6       | 2.75e-7       | 9.910e-06***  | -4.92e-7      | -1.50e-6      | 8.548e-06***  | -1.39e-6     | -4.143e-06**  | -2.15e-6      | 2.15e-6       | -8.309e-06*** | -1.464e-05*** | 9.591e-06***  | -1.331e-06*   | 6.464e-06***  | 1.90e-6      | -3.833e-06**  | 1.23e-6      | -7.153e-06*** |
| New deaths                | -1.60e-7      | -1.237e-06*** | -8.41e-8      | 7.613e-07***  | 3.29e-7       | 4.833e-07**   | -2.978e-06*** | 5.555e-07**  | -2.09e-8      | -8.072e-07*** | 3.04e-7       | -2.05e-7      | -1.36e-7      | 1.39e-7       | 5.58e-8       | 9.847e-07***  | 5.760e-07*   | 9.788e-07***  | 6.691e-07**  | -2.02e-7      |
| New cases                 | 5.32e-9       | -8.652e-09**  | 1.07e-9       | -7.177e-09**  | 6.318e-09*    | -5.99e-10     | 3.62e-10      | -1.87e-9     | 2.18e-9       | -6.216e-09*   | -4.925e-09**  | 6.103e-09*    | 3.45e-9       | 1.48e-9       | -6.23e-11     | -1.86e-9      | 2.88e-9      | 1.29e-9       | 3.71e-9      | -3.01e-9      |
| Post type                 | 2.329e-02***  | -2.749e-02*** | -7.265e-03*** | 2.159e-02***  | -1.142e-02*** | -2.11e-3      | 1.392e-02***  | 7.578e-03**  | -2.095e-02*** | -4.256e-02*** | 2.30e-3       | -3.433e-02*** | -4.688e-02*** | 4.193e-02***  | 1.017e-02***  | 2.335e-02***  | 1.899e-02*** | -3.78e-3      | 3.497e-02*** | -1.22e-3      |
| S and P 500 opening score | 2.845e-05***  | -1.01e-5      | -8.161e-06**  | 7.01e-6       | -1.106e-05*   | -1.401e-05*** | 4.506e-05***  | -1.12e-6     | -4.33e-6      | 2.126e-05***  | -1.537e-05*** | -1.51e-6      | -1.392e-05*** | -6.52e-6      | -1.55e-6      | 8.337e-06**   | -5.07e-6     | -1.977e-05*** | -3.18e-6     | 5.58e-6       |
| s(days)1                  | 3.011e-02***  | -2.129e-02*** | 6.52e-4       | 1.373e-02**   | -8.818e-03*   | -2.06e-3      | 3.652e-02***  | 1.656e-02*** | -4.112e-02*** | 1.987e-02***  | 2.21e-3       | -5.089e-02*** | -2.351e-02*** | 1.418e-02***  | 6.725e-03***  | 6.681e-03*    | 2.50e-3      | -2.450e-02*** | 2.863e-02*** | -6.29e-3      |
| s(days)2                  | -1.484e-02*** | -5.21e-3      | 4.929e-03*    | -1.799e-02*** | 1.180e-02***  | 1.035e-02***  | 2.092e-02***  | 7.352e-03**  | -2.312e-02*** | 1.150e-02***  | 2.30e-3       | -2.302e-02*** | 2.896e-02***  | -1.847e-02*** | -6.703e-03*** | -1.351e-02*** | 5.81e-4      | -1.544e-02*** | 1.893e-02*** | 2.061e-02***  |
| s(days)3                  | 1.414e-02***  | -4.835e-02*** | 6.067e-03*    | 6.21e-3       | 1.344e-02***  | 1.566e-02***  | 5.31e-3       | 6.457e-03*   | -3.753e-02*** | 5.21e-4       | 3.60e-3       | -5.933e-02*** | 6.504e-03*    | -1.719e-02*** | 6.410e-03***  | 1.404e-02***  | 2.922e-02*** | 4.45e-3       | 2.320e-02*** | 7.064e-03**   |
| s(days)4                  | -6.97e-4      | -1.897e-02*** | 9.194e-03***  | -1.901e-02*** | 2.546e-02***  | 1.500e-02***  | 1.448e-02***  | -8.509e-03** | -3.913e-02*** | 1.830e-02***  | 1.13e-3       | -5.989e-02*** | 1.206e-02***  | -1.503e-02*** | 6.60e-4       | -2.12e-3      | 1.791e-02*** | 2.169e-02***  | 2.206e-02*** | 5.40e-3       |
| s(days)5                  | 4.15e-3       | -4.147e-02*** | 1.211e-02***  | 1.108e-02*    | 2.953e-02***  | 2.189e-02***  | 1.775e-02***  | -3.23e-3     | -4.646e-02*** | 1.194e-02**   | 6.14e-3       | -7.955e-02*** | 2.09e-3       | -1.282e-02*** | 5.482e-03***  | 1.24e-3       | 1.751e-02*** | 3.83e-3       | 3.022e-02*** | 8.379e-03*    |
| s(days)6                  | -5.345e-02*** | -2.651e-02*** | 1.428e-02**   | -8.07e-3      | 2.737e-02***  | 3.677e-02***  | -5.278e-02*** | 9.991e-03*   | -2.298e-02*** | 1.40e-3       | -1.49e-3      | -2.554e-02*** | 3.529e-02***  | -1.050e-02*   | -2.62e-3      | -1.69e-3      | 3.237e-02*** | 2.215e-02***  | 1.406e-02*   | 1.205e-02*    |
| s(days)7                  | 1.11e-2       | -2.071e-02**  | 8.33e-4       | 2.081e-02***  | 1.809e-02***  | 3.605e-02***  | 3.36e-3       | 1.38e-4      | -4.663e-02*** | 7.53e-3       | 8.11e-3       | -6.400e-02*** | 6.10e-3       | -1.527e-02*** | 2.53e-3       | -6.11e-3      | 8.93e-3      | 6.21e-3       | 1.999e-02*** | 3.01e-3       |
| s(days)8                  | -2.862e-02*** | -1.560e-02*   | 1.782e-02***  | -3.137e-02*** | 2.988e-02***  | 3.502e-02***  | -7.56e-3      | -5.38e-3     | -4.277e-02*** | 3.182e-02***  | 2.20e-4       | -5.346e-02*** | 2.792e-02***  | -2.000e-02*** | 2.21e-3       | -1.182e-02*   | 3.946e-02*** | 1.112e-02*    | 1.179e-02*   | 9.30e-3       |
| s(days)9                  | -3.770e-02*** | -1.17e-2      | 2.908e-02***  | -6.99e-3      | 2.225e-02***  | 3.134e-02***  | 1.04e-2       | -7.65e-3     | -4.539e-02*** | 1.929e-02***  | 1.023e-02*    | -5.944e-02*** | 1.572e-02*    | -2.044e-02*** | 5.742e-03**   | -1.060e-02*   | 1.832e-02**  | 4.76e-3       | 1.432e-02*   | 1.847e-02**   |
| s(days)10                 | -3.324e-02*** | -1.12e-2      | 2.200e-02***  | -1.08e-2      | 2.482e-02***  | 3.259e-02***  | -2.04e-3      | -1.02e-2     | -4.499e-02*** | 2.402e-02***  | 4.83e-3       | -5.915e-02*** | 2.026e-02**   | -1.950e-02*** | 3.03e-3       | -1.034e-02*   | 3.459e-02*** | 8.34e-3       | 1.339e-02*   | 1.370e-02*    |
| timePre                   | -1.503e-02*** | 5.678e-03*    | 7.91e-4       | -9.514e-03*** | 2.36e-3       | 1.274e-02***  | -2.716e-02*** | 7.393e-03*** | 2.46e-3       | -7.032e-03*** | 3.35e-3       | 1.386e-02***  | 7.466e-03***  | -3.821e-03*   | -1.15e-3      | -3.648e-03*   | 6.158e-03*   | 8.22e-4       | 3.31e-3      | 1.04e-3       |

Supplementary Table 2: Regression output for difference in topic proportions before and after Johnson & Johnson halted vaccine trials (October 12 2020)

| Topic                 | (1)           | (2)           | (3)           | (4)           | (5)           | (6)           | (7)           | (8)           | (9)           | (10)          | (11)          | (12)          | (13)          | (14)          | (15)          | (16)          | (17)         | (18)          | (19)         | (20)          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|--------------|---------------|
| (Intercept)           | -5.944e-02*** | 1.597e-01***  | 6.119e-02***  | -1.08e-2      | 7.536e-02***  | 5.045e-02***  | -6.685e-02*** | 5.696e-02***  | 8.898e-02***  | 1.47e-2       | 8.701e-02***  | 1.319e-01***  | 1.198e-01***  | 4.330e-02***  | 1.816e-02***  | 8.97e-3       | 4.946e-02*** | 9.547e-02***  | 2.619e-02*   | 4.971e-02***  |
| score                 | 6.62e-7       | 4.13e-6       | 2.76e-7       | 9.980e-06***  | -5.10e-7      | -1.49e-6      | 8.529e-06***  | -1.41e-6      | -4.134e-06**  | -2.16e-6      | 2.25e-6       | -8.319e-06*** | -1.462e-05*** | 9.585e-06***  | -1.337e-06*   | 6.477e-06***  | 1.90e-6      | -3.842e-06**  | 1.25e-6      | -7.136e-06*** |
| New deaths            | -3.13e-7      | -9.976e-07*** | 1.32e-8       | 4.495e-07*    | 2.46e-7       | 4.038e-07*    | -2.959e-06*** | 6.653e-07***  | -1.01e-7      | -7.787e-07*** | 3.438e-07*    | -1.06e-7      | -1.57e-7      | 3.69e-8       | 5.04e-8       | 1.019e-06***  | 5.984e-07*   | 1.043e-06***  | 7.264e-07**  | -1.77e-7      |
| New cases             | 5.37e-9       | -8.581e-09**  | 1.21e-9       | -7.751e-09**  | 6.477e-09*    | -9.90e-10     | 5.76e-10      | -1.31e-9      | 2.10e-9       | -6.228e-09*   | -4.987e-09**  | 6.424e-09*    | 3.13e-9       | 1.51e-9       | 1.37e-10      | -1.82e-9      | 2.94e-9      | 1.18e-9       | 3.71e-9      | -3.09e-9      |
| Post type             | 2.337e-02***  | -2.754e-02*** | -7.210e-03*** | 2.154e-02***  | -1.160e-02*** | -2.18e-3      | 1.387e-02***  | 7.638e-03**   | -2.092e-02*** | -4.243e-02*** | 2.33e-3       | -3.439e-02*** | -4.697e-02*** | 4.193e-02***  | 1.022e-02***  | 2.331e-02***  | 1.890e-02*** | -3.74e-3      | 3.503e-02*** | -1.29e-3      |
| S&P 500 opening score | 2.635e-05***  | -1.252e-05*   | -9.067e-06*** | 8.56e-6       | -7.84e-6      | -9.249e-06*** | 3.387e-05***  | 1.19e-6       | -2.07e-6      | 1.698e-05***  | -1.588e-05*** | 2.48e-6       | -1.117e-05**  | -5.92e-6      | -1.36e-6      | 6.081e-06*    | -2.05e-6     | -2.132e-05*** | -2.57e-6     | 5.44e-6       |
| s(days)1              | 2.958e-02***  | -2.271e-02*** | -1.24e-4      | 1.569e-02**   | -7.46e-3      | 7.35e-4       | 3.252e-02***  | 1.689e-02***  | -3.965e-02*** | 1.861e-02***  | 1.96e-3       | -5.026e-02*** | -2.233e-02*** | 1.469e-02***  | 6.578e-03***  | 5.73e-3       | 2.91e-3      | -2.515e-02*** | 2.820e-02*** | -6.49e-3      |
| s(days)2              | -1.255e-02*** | -7.03e-3      | 4.05e-3       | -1.510e-02*** | 1.161e-02**   | 9.921e-03***  | 2.462e-02**   | 5.242e-03*    | -2.280e-02**  | 1.276e-02***  | 1.93e-3       | -2.566e-02*** | 2.822e-02***  | -1.755e-02*** | -6.769e-03*** | -1.308e-02*** | -7.67e-4     | -1.562e-02*** | 1.802e-02**  | 2.041e-02**   |
| s(days)3              | 1.453e-02***  | -4.744e-02*** | 6.187e-03**   | 1.242e-02***  | 1.492e-02***  | 8.737e-03*    | 5.624e-03*    | -3.779e-02*** | 2.04e-3       | 3.74e-3       | -6.104e-02*** | 5.91e-3       | -1.743e-02*** | 6.168e-03***  | 1.471e-02***  | 2.784e-02***  | 5.03e-3      | 2.268e-02***  | 7.047e-03*   |               |
| s(days)4              | 2.39e-3       | -2.009e-02*** | 8.648e-03***  | -1.649e-02*** | 2.423e-02***  | 1.302e-02***  | 2.190e-02***  | -1.119e-02*** | -3.950e-02*** | 2.097e-02***  | 7.65e-4       | -6.411e-02*** | 1.050e-02**   | -1.425e-02*** | 5.26e-4       | -1.04e-3      | 1.544e-02*** | 2.199e-02***  | 2.091e-02*** | 5.23e-3       |
| s(days)5              | 3.75e-3       | -3.909e-02*** | 1.251e-02***  | 9.91e-3       | 2.739e-02***  | 2.080e-02***  | 2.301e-02***  | -4.67e-3      | -4.732e-02*** | 1.455e-02***  | 6.71e-3       | -8.156e-02*** | 1.30e-3       | -1.370e-02*** | 4.951e-03**   | 2.52e-3       | 1.537e-02*** | 5.21e-3       | 2.979e-02*** | 8.632e-03*    |
| s(days)6              | -2.861e-02*** | -3.413e-02*** | 1.329e-02***  | 6.13e-3       | 2.158e-02***  | 1.473e-02***  | -2.86e-3      | -3.25e-3      | -2.786e-02*** | 1.543e-02***  | -6.487e-03*   | -5.049e-02*** | 2.206e-02***  | -4.68e-3      | -1.08e-3      | 5.41e-3       | 2.025e-02*** | 2.187e-02***  | 8.169e-03*   | 1.047e-02**   |
| s(days)7              | 5.008e-02***  | -5.144e-02*** | -9.156e-03*   | 6.467e-02***  | 2.198e-02***  | 2.281e-02***  | 4.451e-02***  | -2.172e-02*** | -4.299e-02*** | 1.661e-02***  | -1.67e-3      | -9.550e-02*** | -4.65e-3      | -3.65e-4      | 4.450e-03*    | -3.15e-3      | -2.84e-3     | -4.16e-4      | 9.56e-3      | -8.03e-4      |
| s(days)8              | 4.83e-3       | -3.590e-02*** | 1.196e-02**   | -8.99e-4      | 2.883e-02***  | 1.695e-02***  | 4.056e-02**   | -2.402e-02*** | -4.341e-02*** | 4.405e-02***  | -7.35e-3      | -8.317e-02*** | 1.533e-02**   | -9.057e-03*   | 3.929e-03*    | -6.35e-3      | 2.646e-02*** | 7.65e-3       | 3.10e-3      | 6.45e-3       |
| s(days)9              | -4.62e-4      | -3.809e-02*** | 2.062e-02***  | 3.185e-02***  | 2.367e-02***  | 1.558e-02***  | 5.615e-02***  | -2.887e-02*** | -4.370e-02*** | 3.006e-02***  | 1.26e-3       | -9.109e-02*** | 4.18e-3       | -7.18e-3      | 7.489e-03***  | -6.39e-3      | 5.72e-3      | -4.34e-4      | 4.49e-3      | 1.515e-02**   |
| s(days)10             | 2.07e-3       | -3.462e-02*** | 1.484e-02***  | 2.389e-02***  | 2.502e-02***  | 1.585e-02***  | 4.457e-02***  | -3.016e-02**  | -4.440e-02*** | 3.544e-02***  | -3.37e-3      | -8.971e-02*** | 8.23e-3       | -7.40e-3      | 4.736e-03*    | -5.57e-3      | 2.176e-02*** | 4.01e-3       | 4.13e-3      | 1.061e-02*    |
| timePre               | 1.702e-02***  | -1.836e-02*** | -6.220e-03*** | 2.360e-02***  | 5.447e-03*    | -4.84e-4      | 7.512e-03**   | -8.727e-03**  | 4.381e-03*    | -4.31e-5      | -4.885e-03**  | -1.091e-02*** | -2.34e-3      | 8.074e-03***  | 9.96e-4       | -9.29e-4      | -2.69e-3     | -4.766e-03**  | -4.576e-03*  | -2.07e-3      |

Supplementary Table 3: Regression output for difference in topic proportions before and after Pfizer announced 90% vaccine efficacy (November 9 2020)

| Topic                 | (1)           | (2)           | (3)           | (4)           | (5)           | (6)          | (7)           | (8)           | (9)           | (10)          | (11)          | (12)          | (13)          | (14)          | (15)          | (16)          | (17)         | (18)          | (19)         | (20)          |
|-----------------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|--------------|---------------|
| (Intercept)           | 7.036e-02***  | 9.356e-02***  | 4.648e-02***  | 4.745e-02***  | 1.027e-01***  | 2.271e-02**  | 5.155e-02***  | 1.80e-3       | 8.490e-02***  | 4.666e-02***  | 6.208e-02***  | 7.604e-02***  | 9.863e-02***  | 5.768e-02***  | 2.269e-02***  | -6.98e-3      | 7.88e-3      | 6.144e-02***  | -1.11e-3     | 5.291e-02***  |
| score                 | 8.49e-7       | 4.15e-6       | 2.88e-7       | 9.947e-06***  | -5.16e-7      | -1.58e-6     | 8.619e-06***  | -1.47e-6      | -4.186e-06**  | -2.05e-6      | 2.23e-6       | -8.325e-06*** | -1.466e-05*** | 9.555e-06***  | -1.343e-06*   | 6.472e-06***  | 1.83e-6      | -3.885e-06**  | 1.21e-6      | -7.121e-06*** |
| New deaths            | 4.55e-9       | -1.320e-06*** | -9.28e-8      | 7.893e-07***  | 2.99e-7       | 4.181e-07*   | -2.686e-06*** | 4.556e-07**   | -2.71e-8      | -7.043e-07*** | 2.61e-7       | -3.51e-7      | -2.22e-7      | 1.76e-7       | 6.70e-8       | 1.012e-06***  | 4.88e-7      | 9.744e-07***  | 6.517e-07**  | -1.93e-7      |
| New cases             | 2.10e-9       | -7.635e-09*   | 1.12e-9       | -7.786e-09**  | 5.430e-09*    | 1.26e-10     | -2.80e-9      | -4.37e-10     | 2.76e-9       | -7.075e-09**  | -4.623e-09*   | 7.128e-09**   | 3.65e-9       | 1.77e-9       | -8.59e-13     | -1.15e-9      | 4.08e-9      | 1.99e-9       | 4.54e-9      | -3.19e-9      |
| Post type             | 2.341e-02***  | -2.752e-02*** | -7.122e-03*** | 2.165e-02***  | -1.177e-02*** | -2.17e-3     | 1.388e-02***  | 7.726e-03**   | -2.102e-02*** | -4.231e-02*** | 2.25e-3       | -3.422e-02*** | -4.729e-02*** | 4.187e-02***  | 1.022e-02***  | 2.338e-02***  | 1.907e-02*** | -3.81e-3      | 3.504e-02*** | -1.26e-3      |
| S&P 500 opening score | -1.70e-6      | 4.01e-7       | -6.904e-06*   | -1.82e-6      | -1.475e-05**  | -2.00e-6     | 7.91e-6       | 1.174e-05***  | -1.36e-7      | 1.015e-05**   | -1.056e-05*** | 1.327e-05**   | -5.99e-6      | -8.040e-06*   | -2.20e-6      | 9.930e-06**   | 6.61e-6      | -1.407e-05*** | 3.40e-6      | 4.90e-6       |
| s(days)1              | 1.900e-02***  | -1.663e-02**  | 1.73e-3       | 1.074e-02*    | -8.38e-3      | 1.52e-3      | 2.109e-02***  | 2.241e-02***  | -4.057e-02*** | 1.520e-02***  | 4.12e-3       | -4.353e-02*** | -2.043e-02*** | 1.288e-02***  | 6.149e-03***  | 6.809e-03*    | 7.34e-3      | -2.277e-02*** | 3.039e-02*** | -6.995e-03*   |
| s(days)2              | -5.34e-3      | -8.08e-3      | 4.57e-3       | -1.507e-02*** | 1.389e-02***  | 6.719e-03**  | 3.147e-02***  | 3.64e-3       | -2.496e-02*** | 1.427e-02***  | 8.68e-4       | -2.635e-02*** | 2.705e-02***  | -1.845e-02*** | -6.659e-03*** | -1.454e-02*** | -2.58e-3     | -1.779e-02*** | 1.657e-02**  | 2.077e-02***  |
| s(days)3              | 2.264e-02***  | -5.077e-02*** | 6.183e-03*    | 9.033e-03*    | 1.590e-02***  | 1.146e-02*** | 1.465e-02***  | 3.77e-3       | -3.956e-02*** | 3.25e-3       | 2.34e-3       | -6.228e-02*** | 4.30e-3       | -1.737e-02*** | 6.331e-03***  | 1.338e-02***  | 2.642e-02*** | 2.78e-3       | 2.087e-02*** | 6.775e-03*    |
| s(days)4              | 1.931e-02***  | -2.541e-02*** | 8.486e-03***  | -1.318e-02*** | 2.887e-02***  | 7.180e-03**  | 3.788e-02***  | -1.642e-02*** | -4.270e-02*** | 2.513e-02***  | -2.06e-3      | -6.849e-02*** | 7.787e-03*    | -1.454e-02*** | 8.80e-4       | -3.79e-3      | 1.039e-02**  | 1.737e-02***  | 1.743e-02*** | 5.87e-3       |
| s(days)5              | 2.216e-02***  | -4.716e-02*** | 1.186e-02***  | 1.651e-02***  | 3.398e-02***  | 1.432e-02*** | 3.798e-02***  | -9.792e-03**  | -4.995e-02*** | 1.805e-02***  | 3.47e-3       | -8.649e-02*** | -2.20e-3      | -1.301e-02*** | 5.470e-03***  | -4.55e-4      | 1.092e-02*   | 2.70e-4       | 2.560e-02*** | 8.399e-03*    |
| s(days)6              | 4.44e-3       | -4.670e-02*** | 1.167e-02***  | 1.517e-02***  | 2.877e-02***  | 5.36e-3      | 2.905e-02***  | -1.556e-02*** | -3.209e-02*** | 2.394e-02***  | -1.233e-02*** | -6.159e-02*** | 1.691e-02***  | -3.65e-3      | -2.63e-4      | 6.81e-4       | 9.663e-03*   | 1.293e-02***  | 1.60e-3      | 1.188e-02**   |
| s(days)7              | 2.951e-02***  | -2.674e-02*** | 3.99e-4       | 3.272e-02***  | 1.925e-02***  | 1.995e-02*** | 3.357e-02***  | -7.377e-03*   | -5.108e-02*** | 1.564e-02***  | 4.67e-3       | -7.818e-02*** | -2.58e-3      | -1.248e-02**  | 3.10e-3       | -3.12e-3      | 1.97e-3      | 5.36e-3       | 1.451e-02*** | 8.79e-4       |
| s(days)8              | -3.466e-02*** | -1.36e-2      | 1.927e-02***  | -2.165e-02*** | 2.636e-02***  | 2.070e-02**  | 2.32e-3       | -1.24e-3      | -4.465e-02*** | 3.189e-02***  | -3.25e-4      | -6.191e-02*** | 1.964e-02***  | -1.523e-02**  | 2.01e-3       | -3.28e-3      | 4.204e-02*** | 1.816e-02***  | 1.053e-02*   | 3.59e-3       |
| s(days)9              | -2.251e-02*** | -1.670e-02*   | 2.900e-02***  | 6.04e-3       | 2.226e-02***  | 1.379e-02*** | 4.029e-02***  | -1.347e-02**  | -4.967e-02*** | 2.594e-02***  | 7.01e-3       | -7.454e-02*** | 6.45e-3       | -1.669e-02*** | 6.123e-03**   | -6.00e-3      | 1.261e-02*   | 5.58e-3       | 9.07e-3      | 1.525e-02**   |
| s(days)10             | -2.762e-02*** | -1.30e-2      | 2.262e-02***  | 6.96e-4       | 2.326e-02***  | 1.650e-02*** | 1.871e-02**   | -1.153e-02**  | -4.813e-02*** | 2.777e-02***  | 2.80e-3       | -7.110e-02*** | 1.130e-02*    | -1.536e-02*** | 3.12e-3       | -4.00e-3      | 3.261e-02*** | 1.203e-02**   | 9.978e-03*   | 9.35e-3       |
| timePre               | -3.969e-02*** | 1.365e-02***  | 2.34e-3       | -7.341e-03**  | -4.597e-03*   | 9.273e-03*** | -4.242e-02*** | 1.800e-02***  | 4.590e-03**   | -1.348e-02*** | 6.095e-03***  | 1.534e-02***  | 5.242e-03*    | -3.46e-4      | -1.31e-3      | 5.080e-03**   | 1.566e-02*** | 1.052e-02***  | 7.135e-03**  | -3.68e-3      |