Traffic-Related Emergency
Department Visits as a Measure of
Social Distancing during the
COVID-19 Pandemic in Suburban
Cook County, IL

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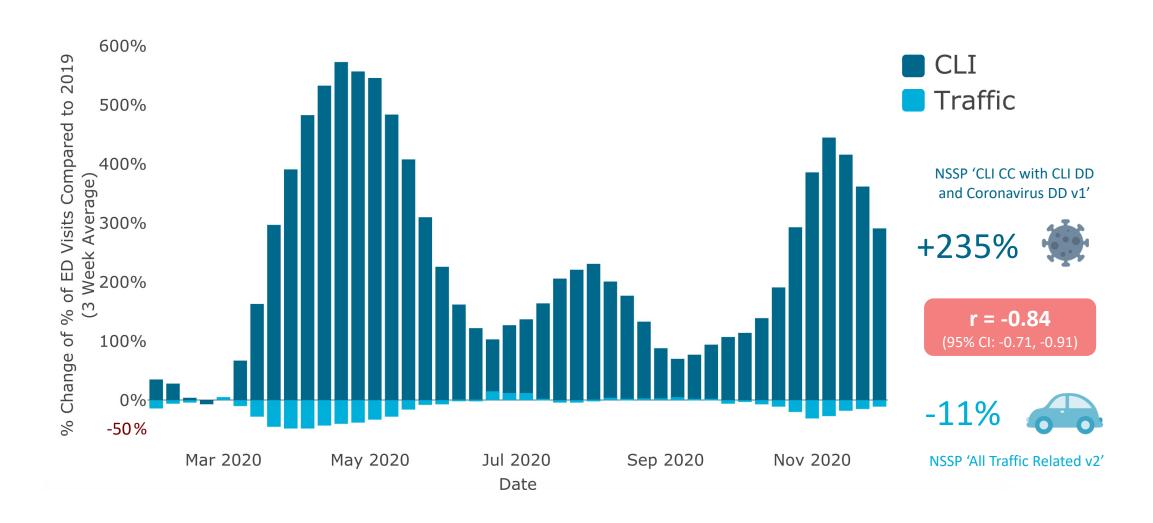
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Background: traffic-related emergency department (ED) visits as a proxy for social distancing at county and sub-county levels

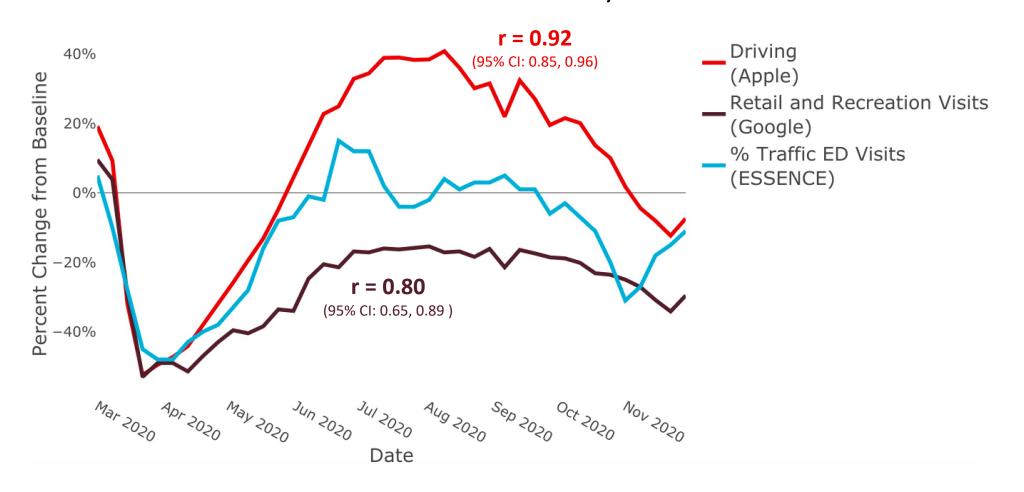
- Social distancing and staying at home are important prevention measures against community spread of SARS-CoV-2
- Mobility data is available from companies such as Google and Apple but not at a subcounty level and not guaranteed forever
- Hypothesis: when people stay at home more, there is less vehicle congestion, fewer car accidents, and thus fewer ED visits for traffic-related injuries



When covid-like illness (CLI) ED visits increased in 2020, traffic-related ED visits decreased. Traffic-related ED visits were down overall in MMWR Weeks 10-50, 2020 compared to 2019.



Weekly percent of ED visits for traffic-related injuries was significantly correlated with Apple Maps usage for driving directions and with Google data approximating visits to retail and recreation locations in our county.



There were marked disparities in the ability to stay home during a pandemic for those hardest-hit in our jurisdiction.

