

Ride-hailing linked to more crashes for motorists and pedestrians

6 April 2020



Credit: CC0 Public Domain

Ride-hailing trips increase the number of crashes for motorists and pedestrians at pick-up and drop-off locations, reports a new study from researchers at the Columbia University Mailman School of Public Health. The research is the first to use data for individual ride-hailing trips, rather than comparing cities where ride-hailing is available to those where it is not available. The findings are published in the journal *Injury Prevention*.

Motor vehicle crashes are one of the main causes of death globally, and each year around 1.3 million people die on the roads. In the U.S., 33,654 were killed in 2018, and a further 2.3 million people were injured.

Ride-hailing services, such as Uber and Lyft, have facilitated over 11 billion trips in the U.S. since operations began in 2010. Several studies have identified that alcohol-involved [motor vehicle crashes](#) decrease when [ride-hailing](#) services become available in a [city](#), but these studies also find no change in the overall number of crashes.

The team from Columbia Mailman School, along

with collaborators from Oxford University in the United Kingdom, used data for 372 million ride-hail trips in New York City for 2017 and 2018. They identified areas of the city where a motor vehicle crash occurred, and then calculated the number of ride-hailing trips that originated nearby at the time of the crash and compared this to the number of ride-hailing trips that originated in the same location one week before the [crash](#) and one week afterwards. They performed this same procedure for taxis, and separated crashes according to the people who were injured—motorists, pedestrians, and cyclists.

The results demonstrated that increases in ride-hailing were linked to the rise in crashes in which motorists and pedestrians were injured. They did not find any link for cyclists crashes or for taxi trips.

"Ridesharing is changing the way we move around cities," said Christopher Morrison, Ph.D., assistant professor of epidemiology at Columbia Mailman School, and first author on the research. "It is becoming clear that the technology reduces alcohol-related crashes, but these benefits do not seem to extend to the overall number of crashes. These findings help explain why that might be—because the reductions in alcohol-related crashes are off-set by increases in other types of crashes."

The authors suggest that cities and ride-hailing companies can use this information to help prevent injuries. "There are so many rideshare trips every day in our cities, even tiny changes in risks can have a big impact on the total number of injuries," said Morrison. "In congested areas with large numbers of rideshare pick-ups and drop-offs, cities could consider installing taxi-rank style infrastructure to protect pedestrians and prevent crashes."

Provided by Columbia University's Mailman School of Public Health

APA citation: Ride-hailing linked to more crashes for motorists and pedestrians (2020, April 6) retrieved 26 August 2022 from <https://medicalxpress.com/news/2020-04-ride-hailing-linked-motorists-pedestrians.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.