

## **CAR ACCIDENTS AND THEIR IMPACT ON HUMAN HEALTH**

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### **ABSTRACT**

In 2011, there were 11,612 road accidents in Uzbekistan, resulting in 2,161 deaths and 11,228 injuries. It should be noted that in Uzbekistan this year, drivers violated 3,896,000 traffic rules, of which 1,588,000 were serious violations [6,7,8]. Road accidents occur are difficult days for road accidents.

**Keywords:** Car accidents, health, driving speed, premature death.

### **INTRODUCTION**

Cities and villages are overcrowded with motor vehicles, especially passenger cars, which leads to excessive traffic on the streets, a decrease in the speed of vehicles and a deterioration in road safety conditions (3).

According to the World Health Organization, mortality from road accidents increased by 65% between 2000 and 2020, mainly due to developing countries [4,10]. Today, the medical and economic damage from road accidents amounts to 1-3% of the gross domestic product in different countries (the total damage averages \$518 billion per year) [5,12].

In Russia, road traffic accidents are a major source of population loss due to premature mortality. In 2013, there were 26,977 premature deaths, which is a key indicator of population health. Trauma from road accidents results in the death of young and working-age people. In addition, more than 250,000 people are seriously injured and treated in hospitals every year. This also seriously damages the health care system from all sides (2).

**Target.** Influence car accidents on human health

### **MATERIALS AND METHODS RESEARCH**

For 2011-2022, information provided by the social network on road accidents in the Republic of Uzbekistan was used. In the statistical analysis of the data obtained, social-hygienic and sanitary-statistical methods were widely used.

### **RESEARCH RESULTS AND THEIR DISCUSSION**

The increasing saturation of cities with cars, especially light ones, causes extreme congestion of the city's street network and a drop in traffic speeds transport and deterioration of road safety conditions. Transport the difficulties of large, historically established cities are aggravated ix

In Russia, 60-80 people die in car accidents every day. In 2011, there were 10,611 road accidents in Uzbekistan, resulting in 2,161 deaths and 11,228 injuries. It should be noted that this year, drivers in Uzbekistan violated 3,896,000 traffic rules, of which 1,588,000 were serious violations [6,7,8]. Road accidents occur mainly on Fridays and Saturdays, but Sundays

and Mondays are also difficult days for road accidents. Over the 10 months of 2016, 58,885 road accidents were recorded, resulting in 6,932 deaths and 90,314 serious injuries [5,12]. The main objective of the Road Safety Strategy of the Central Asia Regional Economic Cooperation is to reduce the number of deaths from road accidents by 50% by 2030 compared to 2010. This will prevent 250,000 fatal injuries and save 23,000 lives per year. This results in savings of US\$16 billion per year in injuries and deaths in the region (1).

Every year, 4,000-4,200 people die in car accidents. So many people die that it is impossible to look at social media. In large cities such as Beijing, the capital of China, and Moscow, the capital of Russia, there is almost no traffic. Serious changes are needed, taking strict measures to develop public transport, install traffic lights and lanes, prevent traffic jams, regulate roads on the streets of the capital and in the regions (13).

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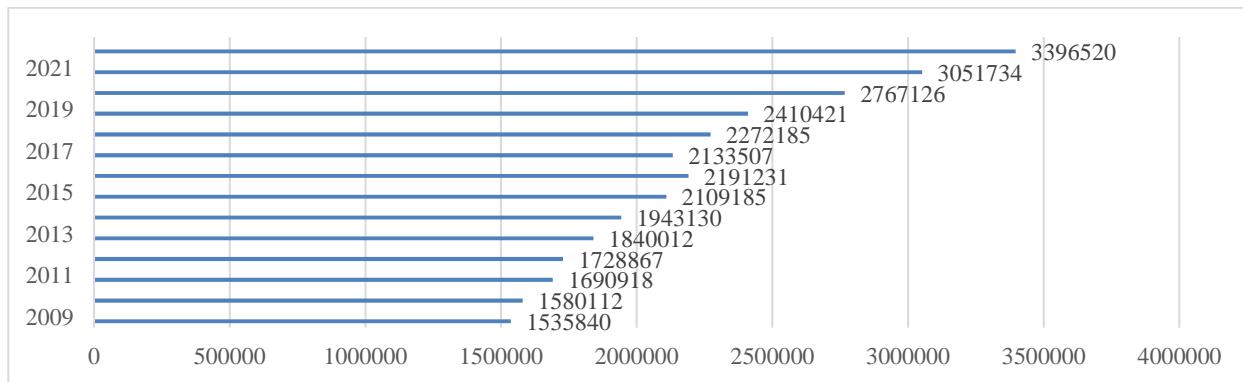
**Table Comparative table of road accidents that occurred in Uzbekistan in 2009-2022  
(absolute number)**

Years	Population	Number of cars	Number of accidents
<b>2009 year</b>	27 533 400	1 535 840	10760
<b>2010 year</b>	28 001 400	1 580 112	10 705
<b>2011 year</b>	29 123 400	1 690 918	10 611
<b>2012 year</b>	29 555 400	1 728 867	10 309
<b>2013 year</b>	29 993 500	1 840 012	10 245
<b>2014 year</b>	30 492 800	1 946 130	10 200
<b>2015 year</b>	31 022 500	2 109 185	10 164
<b>2016 year</b>	31 575 300	2 191 231	10 212
<b>2017 year</b>	32 120 500	2 133 507	10 044
<b>2018 year</b>	32 656 700	2 272 185	8,990
<b>2019 year</b>	33 255 500	2 410 421	8 588
<b>2020 year</b>	34 200 000	2 767 126	6 982
<b>2021 year</b>	34,900,000	3 051 734	10 001
<b>2022 year</b>	36 024 946	3 396 520	9 902

An analysis of 14-year data on population change for 2009-2022 shows that the population of Uzbekistan in 2009 was 27,533,400 people, and in 2022, the population of Uzbekistan reached 36,024,946 people. Over 14 years, the population of Uzbekistan has increased by 23.6%. It can be noted that during 2009-2022, the population of Uzbekistan will grow almost equally every year.

The total number of cars in Uzbekistan has increased annually in absolute values from 2009 to 2022. In 2009, the total number of cars in our country with a population of 27,533,400 people was 1,535,840, that is, there is one car for every 18 people. In 2022, the population of Uzbekistan reached 36,024,946 people, and the number of cars in our country was 3,396,520, and now it is clear that there is one car for every 3.1 residents (Figure 1). It is clear that in recent years, the automotive industry has been rapidly developing in Uzbekistan. For

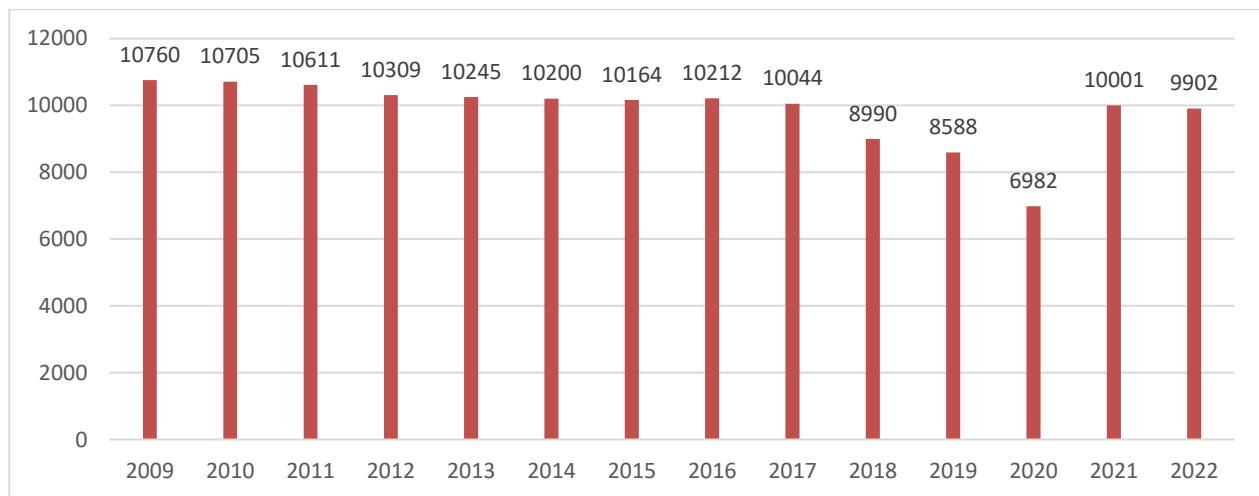
example, in Uzbekistan in 2009, there was one car for every 18 residents, and by 2022, the indicator of car provision of the population showed that there will be one car for every 3.1 residents (see table).



1 – picture. Number of cars in Uzbekistan in 2009-2022.

The next stage of our analysis focused on road traffic accidents (RTAs) that occurred during the observation years in both countries.

From 2009 to 2017, the number of road accidents in Uzbekistan increased from 10,044 to 10,760. Since 2018, the number of road accidents has decreased. In 2018, 8990 were observed, in 2019 - 8588, in 2020 - 6982, in 2021 - 10001, in 2022 - 9902. This situation could have arisen due to some increase in driver vigilance since 2018 and the Covid-19 pandemic that occurred in our country (Figure 2).



2 – picture. Number of accidents in Uzbekistan for 2009-2022.

In 2009, the population of Uzbekistan was 27,533,400 people, and this year there were 10,760 accidents, that is, for every 2,559 people, there was one accident. This figure was 2616 in 2010, 2745 in 2011, 2867 in 2013, 2989 in 2014, 3052 in 2015, 3092 in 2016, 3198 in 2018, 3633 people, 3872 in 2019, 4898 in 2020, 3490 in 2021 and 3638 in 2022.

## **CONCLUSIONS**

1. The population of Uzbekistan has grown by 23.6% over 14 years.
2. If in 2009 in Uzbekistan there was one car for every 18 residents, then by 2022, as you can see, there will be one for every 3.1 residents.
3. Road accidents in Uzbekistan from 2009 to 2017 were almost the same every year. Since 2018, the number of road accidents has decreased. In recent years, there has been a tendency for their number to increase.

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