



## CAR ACCIDENTS, INJURIES AND DEATHS IN KHOREZM REGION

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### Abstract

A total of 1,343 car accident cases recorded in the Khorezm Region road patrol service reports on car accidents for 2017-2021 were studied and evaluated. Road traffic incidents, injuries and deaths caused by them on international, state, local, domestic and neighborhood streets of Khorezm region remain relatively high on state, local and city roads, especially it can be observed that the number of injuries and deaths has increased significantly by 2021. This, in turn, creates huge medical, social, organizational and economic problems for the healthcare system in any country.

**Keywords:** incident, spread, injury, death.

### Introduction

Every 30 seconds, one person dies and 10 are seriously injured in a car accident on Earth. According to researched scientific analytical data, about 1.35 million people die prematurely due to car accidents in the world every year, and more than 50 million people are injured. In addition to injury, disability and death, car accidents also cause significant damage to the economy of countries, amounting to 65 to 100 billion dollars per year. Notably, 93% of car accident deaths occur among low- and middle-income families, and almost 60% of car accidents worldwide occur in economically disadvantaged countries[1, 5, 6]. According to the analysis, the death rate from car accidents is higher than malaria, HIV and tuberculosis. In 2016, more than 440,000 young people between the ages of 5 and 29 died on the world's roads. According to the data, 40% of cars are in high-income countries, where the death rate from car accidents is 7% of the total car accident deaths. Africa has the highest mortality rate at 26.6 per 100,000 population, followed by Southeast Asia at 20.7. The lowest deaths were in Europe with 9.3 deaths per 100,000 and 3.1 deaths in the United Kingdom. About three-quarters (73%) of the world's car crash deaths occur among men under the age of 25, almost 3 times higher

than women. It is noteworthy that if the speed of a car is increased by 1%, the risk of a fatal car accident increases by 3-4% [2, 9].

According to the scientific conclusion of A. V. Sakharov (2011), there are 131 car accidents per 100,000 inhabitants in Russia. Among the accidents, the most common are motor vehicle collisions (43.3%) and 28% pedestrian collisions, and most of the accidents are caused by non-observance of traffic rules (86.5%). The death rate was 26 per 100,000 population, and 76.3% of them were men aged 20 to 40 years. Disability was 4.5 per 100,000 population in 2008, with a slight decrease among adults, but almost doubled among children to 2.1 per 100,000 children. The second and third group of disabled people made up most of the disabled people. Most of the injured were admitted to traumatology department (56.2%), neurology department (32.8%). 55.4% of patients were men and 56.5% of them were aged 20-40 [8]. In Russia, 60-80 people die every day due to car accidents [4].

In 2011, 10,611 car accidents were registered in Uzbekistan, and 2,161 deaths and 112,228 injuries were registered. It is noteworthy that 3,896,000 road violations were registered in Uzbekistan, and 1,588,000 of them were serious violations [11]. It is noted that the most dangerous days in the occurrence of traffic accidents are the fifth and sixth days of the week, and special attention is paid to Sundays and Mondays. Mallif said that in 10 months of 2016, 58,885 motor vehicle collisions were registered and 6,932 people died and 90,314 people were injured. Running over pedestrians is next, with a total of 41,370 incidents, 4,667 deaths and 38,981 injuries in the past period [3, 10, 11]. More than 30,000 people die on Russian roads and 200,000 are injured annually. According to statistics, one out of every ten cases occurs in children, and more than 1,500 children die, and 20,000 minors are injured and most of them become disabled for life [4].

### **Purpose of the research**

The study and evaluation of the dynamics of road traffic accidents, injuries and deaths in Khorezm region during 2017-2021.

### **Materials and Methods**

A total of 1343 cases of car accidents recorded in the reports on car accidents for the years 2017-2021 of the Khorezm Region Road Patrol Service were studied. In 2017, -263 in 2017, -258 in 2018, -245 in 2019, -242 in 2020, and 335 road traffic accidents in 2021 were recorded on the highways of the province. hygienic and sanitary statistical methods were widely used.

### **Results and Discussion**

Studies show that during the years 2017-2021, when comparing the average percentages of road traffic incidents in Khorezm region for five years, the highest percentage of 25% was observed in 2021 (335), and the lowest percentage was observed in 2020, 18% (242) (Table 1).

**Table 1****The rate of road traffic accidents in Khorezm region during 2017-2021**

<b>Years</b>	<b>Traffic accident rate (abs)</b>	<b>Difference from five-year average (268.6)</b>	<b>In percent (%) in five years</b>	<b>Percentage difference compared to the five-year average (20%)</b>
<b>2017</b>	263	-5,6	19,6%	-0,4%
<b>2018</b>	258	-10,6	19,2%	-0,8%
<b>2019</b>	245	-23,6	18,2%	-1,8%
<b>2020</b>	242	-26,6	18,0%	-2,0%
<b>2021</b>	335	+66,4	25,0%	+5,0%
<b>A total of 5 years</b>	1343		100%	

It should be noted that in 2019, the number and percentage of road traffic accidents were almost the same as in 2020, 245 and -23.6%, 242 and -26.6%, respectively. The analysis of such indicators in 2017 and 2018 was -5.6 and -10.6 in terms of meeting level and 19.6% and 19.2% in percentage amounts, respectively. If we take the percentage of road traffic accidents as an average of 20% per year in five years, then in 2017 and 2018, the difference in this indicator was -0.4% and -0.8%, respectively, and in 2019 and 2020, respectively -1 It was found to be .8% and -2.0% (Fig. 1).

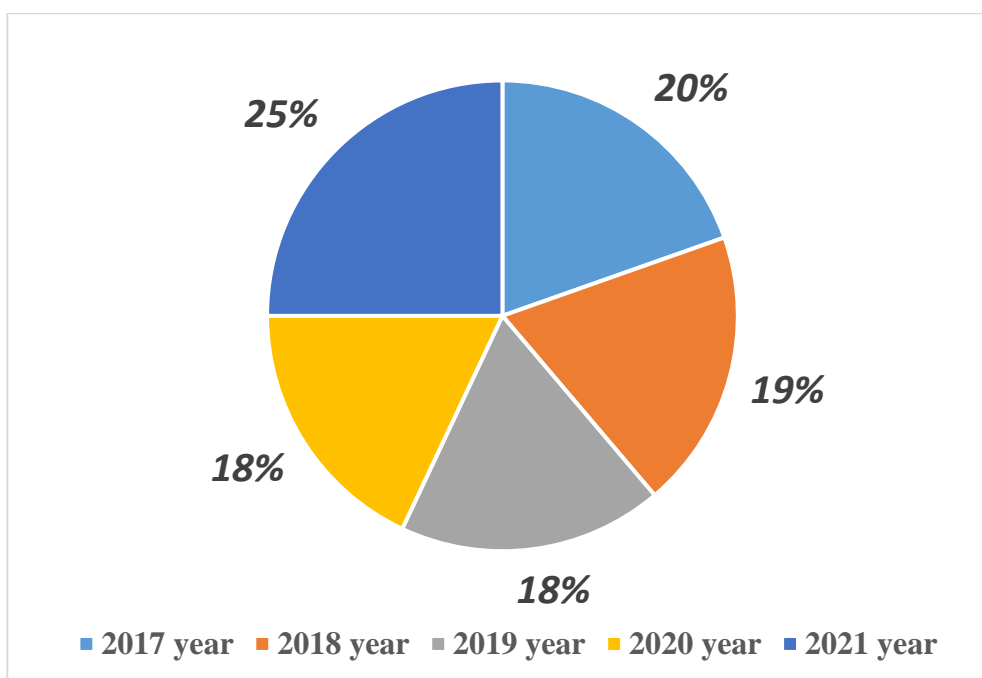


Fig.1. Rate of occurrence of road traffic accidents in Khorezm region in 5 years

Based on the provided information, we compared the analysis of those whose lives were in danger due to road traffic accidents during the years 2017-2021. The analysis results of Table 2 show that 1,487 people died due to road traffic accidents out of 1,343 road traffic accidents that occurred on the international, state, local, domestic and neighborhood streets of Khorezm region during the period of 2017-2021, that is, during the 5 years under our observation. life is in danger. About 420 of them died during the 5 years under our observation, and the rest of 1067 people suffered from various injuries. The analysis of this indicator over the years shows that in 2017, the number of people whose lives were in danger due to a total of 263 road traffic accidents on the international, state, local, domestic and neighborhood streets of Khorezm region was 304, of which 210 were injured due to road traffic accidents, and the rest 94 of them were organized by those who lost their lives due to road traffic accidents. In 2018, a total of 258 road traffic accidents occurred on the roads of Khorezm region, and the number of people whose lives were in danger was 284, of which 197 people were injured due to road traffic accidents, and the remaining 87 people died due to road traffic accidents. In 2019, a total of 245 road traffic accidents occurred on the streets of Khorezm region, and the number of people whose lives were in danger was 275, of which 196 people were injured due to road traffic accidents, and the remaining 79 people died due to road traffic accidents. In 2020, the number of people whose lives were in danger due to a total of 242 road traffic accidents on regional roads amounted to 270 people, of which 192 people were injured due to road traffic accidents, and 78 people were killed due to road transport accidents, and in 2021 on regional roads 354 people were killed in

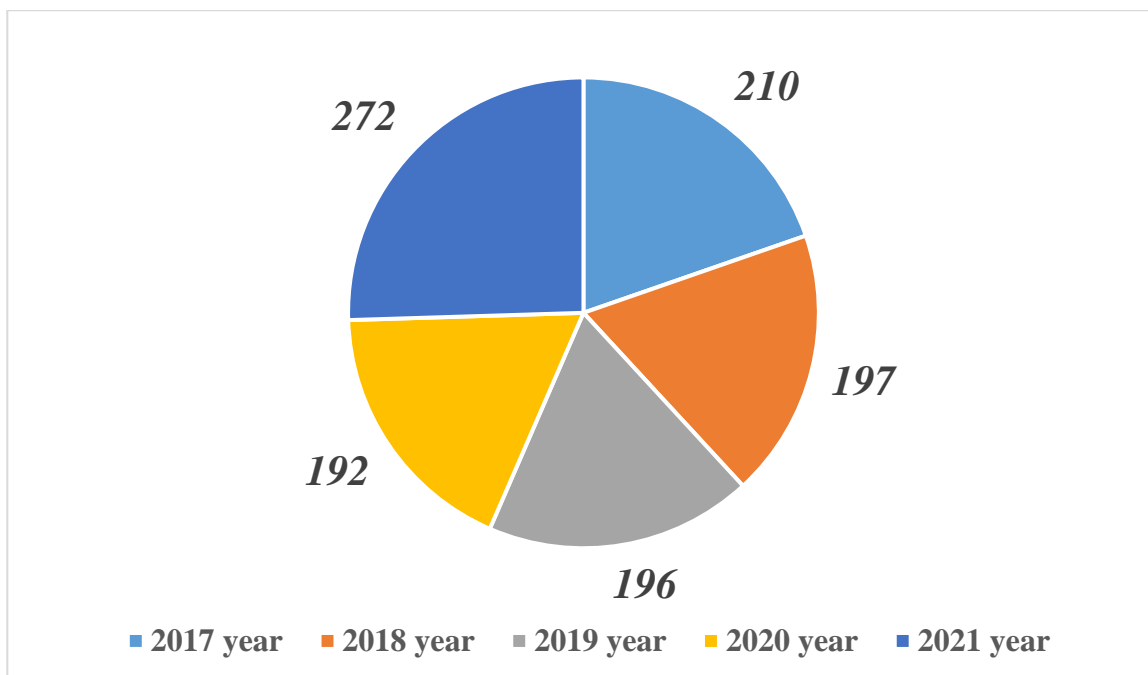
335 road traffic accidents, 272 of them were injured due to road traffic accidents, and 82 people died due to road traffic accidents.

**Table 2**

**The number of people whose lives are in danger due to each road traffic accident in Khorezm region (in absolute values)**

<b>Years</b>	<b>A road traffic accident</b>	<b>Total injuries</b>	<b>The proportion of each road traffic incident</b>	<b>Number of injured</b>	<b>The proportion of each road traffic incident</b>	<b>Number of deaths</b>	<b>The proportion of each road traffic incident</b>
<b>2017</b>	263	304	1,16	210	0,8	94	0,36
<b>2018</b>	258	284	1,10	197	0,76	87	0,34
<b>2019</b>	245	275	1,12	196	0,8	79	0,32
<b>2020</b>	242	270	1,12	192	0,79	78	0,32
<b>2021</b>	335	354	1,06	272	0,81	82	0,24
<b>A total of 5 years</b>	1343	1487	1,11	1067	0,79	420	0,31

From the provided data, we have analyzed how many people's lives were endangered due to each road traffic accident in the years 2017-2021 in absolute values (table 2). The obtained results show that 1,487 people lost their lives due to road traffic accidents out of 1,343 road traffic accidents that occurred on the international, state, local, internal and neighborhood streets of Khorezm region during the period of 2017-2021, 5 years under our observation. This shows that on average 1.11 people were injured as a result of each road traffic accident. If we compare this indicator with the number of people injured as a result of each road traffic accident (1067 people) - 0.79 people, and if we compare it with the number of people who lost their eyes (420 people) - 0.31 people, we found out that.



**Fig. 2. The number of people injured in road traffic accidents in Khorezm region in 5 years**

Analysis of this indicator over the years shows that in 2017, 304 people's lives were endangered due to a total of 263 road traffic accidents that occurred on the international, state, local, internal and neighborhood streets of Khorezm region, which is an average of 1 per road traffic accident. It shows that 16 people have suffered. If we compare this indicator with the number of people injured as a result of each road traffic accident this year (210 people) - 0.8 people, and if we compare it with the number of people who lost their eyes (94 people) - 0.36 people. In 2018, a total of 284 people were injured in 258 road traffic accidents on the roads of Khorezm region, which means that on average 1.10 people were injured as a result of each road traffic accident. If we compare the obtained result with the number of people injured as a result of each road traffic accident this year (197 people) - 0.76 people and if we compare with the number of people who lost their eyes (87 people) - 0.34 people. Also, in 2019, a total of 245 road traffic accidents occurred on the roads of Khorezm region, resulting in 275 people's lives being endangered, which indicates that 1.12 people were injured as a result of each road traffic accident on average. If we compare the result with the number of people injured as a result of each road traffic accident this year (196 people) - 0.8 people and if we compare with the number of people who lost their eyes (79 people) - 0.32 people. In 2020, a total of 242 road traffic accidents occurred on the roads of Khorezm region, and 270 people were injured and their lives were endangered, which means that on average 1.12 people were injured as a result of each road traffic accident. If we compare this indicator with the number of people injured as a result of each road traffic accident this year (192 people) - 0.79 people and if we compare it with the number of people

who lost their eyes (78 people) - 0.32 people, it was found out. And finally, in 2021, a total of 335 road traffic accidents occurred on the roads of Khorezm region, and 354 people suffered life-threatening injuries, which indicates that on average 1.06 people were injured as a result of each road traffic accident. If we compare this indicator with the number of people injured as a result of each road traffic accident this year (272 people) - 0.81 people and if we compare it with the number of people who lost their eyes (82 people) - 0.24 people (Fig. 2).

### **Conclusion**

1. In many countries of the world, including the Republic of Uzbekistan, especially in middle and low-income countries, the level of road traffic accidents remains high, which, in turn, creates huge medical, social, organizational and economic problems for the health care system of any country.

2. The 5-year analysis of road traffic incidents on international, state, local, internal and neighborhood streets of Khorezm region has maintained a high level of traffic incidents on these streets.

3. The number of injuries and deaths recorded in the region as a result of road traffic accidents remains relatively high, mainly on state, local and city roads, especially in 2021.

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