



ACCIDENT

Medical research about
accidents in babylon city



- This presentation done by students from (University Of Babylon/ College Of Medicine- forth stage-) :

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OBJECTIVE

- **INTRODUCTION**
- **TYPES OF ACCIDENTS**
- **COMMON ACCIDENTS IN CHILDREN**
- **METHODS**
- **RESULTS**
- **DISCUSSION**
- **CONCLUSIONS**
- **REFERENCE**

INTRODUCTION

Accident, unintended and unforeseen event, usually resulting in personal injury or property damage. In law, the term is usually limited to events not involving negligence, that is, the carelessness or misconduct of a party involved, or to a loss caused by lightning, floods, or other natural events . In popular usage, however, the term accident designates an unexpected event, especially if it causes injury or damage without reference to the negligence or fault of an individual. The basic causes of such accidents are, in general, unsafe conditions of machinery, equipment, or surroundings, and the unsafe actions of persons that are caused by ignorance or neglect of safety principles.

Accidents can take many forms, such as traffic collisions, falls, fires, poisoning, drowning, or occupational incidents. They often arise from a combination of factors, including human behavior, environmental conditions, and technological failures. Understanding the causes and consequences of accidents is essential for developing effective prevention strategies and promoting safety.

And the aim of this presentation is to calculate the number of accidents and dividing it into a group for each tape of an accident in AL-Hilla city in the year of 2024.

TYPES OF ACCIDENTS

Table 1 : Types of accidents in general

Accidents type	description
Slips and falls	Accidents caused by slips, trips, and falls on wet or uneven surfaces. This includes falls from heights as well.
Vehicle accidents	Vehicle accidents involve collisions between automobiles, motorcycles, bicycles, or pedestrians.
Caught in machinery	Accidents where body parts or clothing get caught in moving machinery, leading to injuries.
Electrical accidents	Accidents caused by electrical shocks, burns, or explosions due to contact with live wires or faulty electrical equipment.

TYPES OF ACCIDENTS

Fires and explosions	Accidents caused by fires or explosions due to faulty wiring, flammable materials, or unsafe handling of chemicals.
Sports and recreation accidents	Sports and recreation activities can also lead to accidents and injuries. These accidents can occur in contact sports, such as football or rugby, or non-contact activities, such as cycling or skiing.
Chemical exposure	Accidents involving exposure to hazardous chemicals, leading to burns, respiratory issues, or other health problems.

TYPES OF ACCIDENTS

Overexertion	Accidents resulting from excessive physical exertion, such as lifting heavy objects or repetitive motions, leading to strains or sprains.
Workplace violence	Accidents caused by physical assault, threats, or other acts of violence in the workplace
Ergonomic injuries	Accidents resulting from poor ergonomics, leading to musculoskeletal disorders, such as back pain or carpal tunnel syndrome.

COMMON ACCIDENTS IN CHILDREN

- **Motor vehicles:** Both as passengers and as pedestrians children may get injured
- **Burns:** Children may get burnt from heating appliances like stoves, irons, heaters etc. They may

get burnt from-

1. **OPEN FIRE:** Fireplaces, outdoor fires, matches, lighters
2. **HOT LIQUIDS:** Bathwater, cooking fluid, tea, coffee etc.
3. **ELECTRIC CIRCUIT:** Defective wiring, unguarded outlets.
4. **STRONG ACIDES AND ALKALIES:** ammonia, hydrochloric acid.

Drowning: In bath tub, sink, wells, swimming pool, ponds, ditches, rivers etc.

Falls : From furniture, stairs, unguarded windows, terrace etc

Poisoning: Drugs like aspirin, sedatives, antihypertensive, tranquilizers, insecticides, cleaning agents, kerosene etc.

Suffocation : Plastic bags, discarded refrigerators etc.

Foreign bodies: Nuts especially peanuts, dried beans, pins, nails, screws, bolts, beads etc.

Cuts and punctures: Knife, scissors, large needles, broken glass, tools etc

METHODS

This research is done by about 15 students from the college of medicine. We discussed how we start the subject by choosing the standard variables to begin the presentation, beginning on the 28th of February in 2024. In the beginning , we decided to separate the group into three small groups each of them had 5 students and each one had to go to one of the hospitals (Al- Turki / marjan / Al- Halla Al-jarahi). We give all of their information where to go in the hospital and who they ask , the places like (burns units , Fractions section or public departments , even Forensic medicine to see which accidents have more mortality) , we are doing that every week or five day once, when we are done then switch the hospital to give every one new experience, I forget to mention that every one of the five students get two to four cases every weeks. And we finished it on the 1st of April / 2024 , and began to collect the data we needed. The number of cases is about 250 and now we put this information in tables and figures to extract percentage from it .

RESULTS

- And we put some tables to see which accidents are common and between male and female and more....
- **Table 2 : percentage % of accidents in male and female**

Gender	Percentage
Male	62.94%
Female	37.05%

RESULTS

- **Table 3 : percentage % of type of accidents**

Types of accidents	Percentage
RTA	47.01%
Fall from height	17.52%
Fire \ Burn	9.56%
Electrical shock	14.34%
Animal bite	3.18%
Poisoning	4.78%
Other	3.58%

RESULTS

- **Table 4 : percentage % of accident according to age**

Age	Percentage
< 10 years	15.53%
10-19 years	12.74%
20-29 years	30.27%
30-39 years	17.92%
40-49 years	16.33%
50-59 years	11.21%
>= 60 years	7.51%

RESULTS

• Table 5 : number between age and site of injuries

Site of injury\ age	<10	10-19	20-29	30-39	40-49	50-59	>= 60
Head	11 4.38%	16 6.37%	26 10.35%	5 1.99%	2 0.79%	9 3.58%	3 1.19%
Chest	6 2.39%	9 3.58%	4 1.59%	3 1.19%	1 0.39%	3 1.19%	4 1.59%
Abdomen	4 1.59%	8 3.18%	12 4.78%	6 2.39%	3 1.19%	3 1.19%	2 0.79%
Upper limbs	11 4.38%	12 4.78%	13 5.17%	8 3.18%	2 0.79%	4 1.59%	2 0.79%
Lower limbs	3 1.19%	7 2.78%	11 4.38%	1 0.39%	6 2.39%	2 0.79%	5 1.99%
Back	3 1.19%	14 5.57%	6 2.39%	0	2 0.79%	1 0.39%	2 0.79%
Multiple injury	1 0.39%	6 2.39%	8 3.18%	1 0.39%	0	4 1.59%	1 0.39%

RESULTS

- **Table 6 : percentage % of sites of injuries**

Site of injury	Percentage
Head	37.05%
Chest	13.14%
Abdomen	11.55%
Upper limbs	20.71%
Lower limbs	14.34%
Back	6.37%
Multiple injury	8.36%

RESULTS

- **Table 7 : percentage % of area of accidents**

Residence	Percentage
Urban	70.91%
Rural	29.08%

- **Table 8 : percentage % time of accidents**

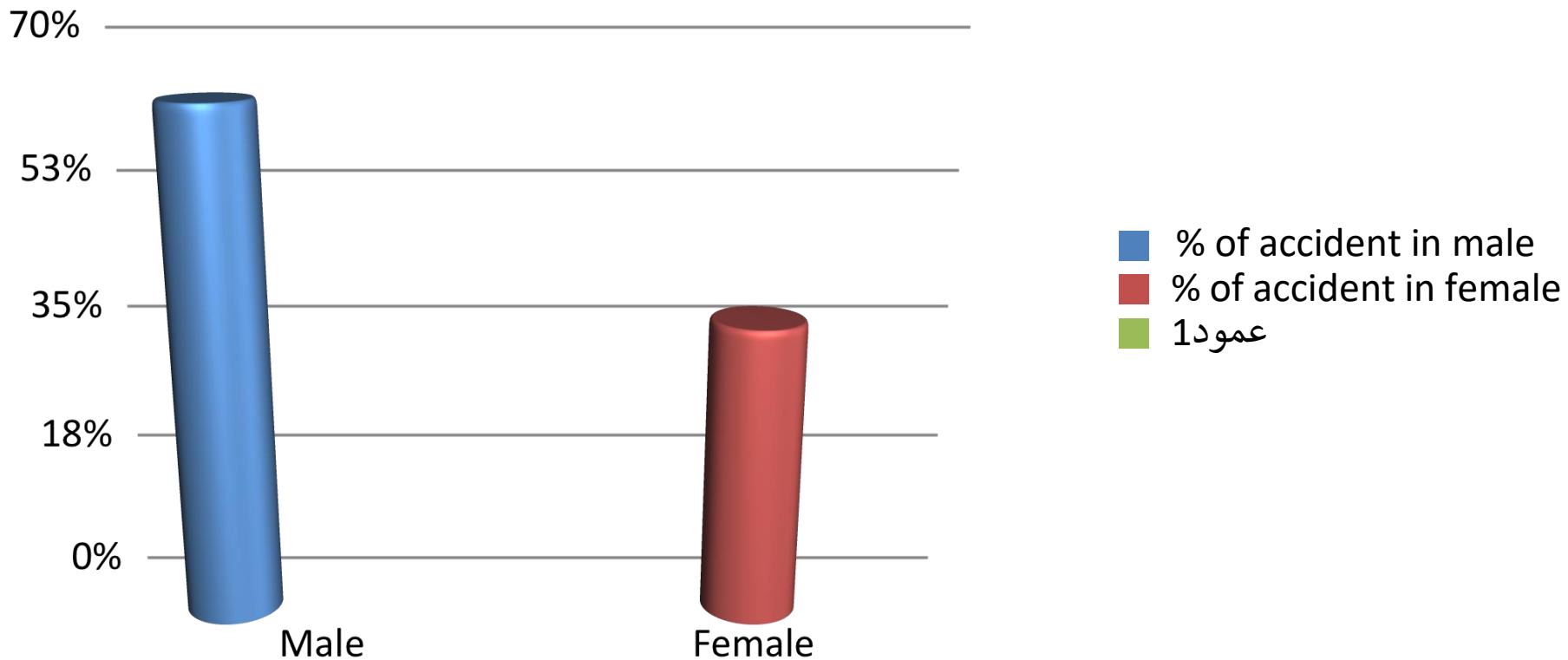
Time of accidents	Percentage
Day	76.89%
Night	23.10%

RESULTS

- **Table 9 : percentage dead or alive duo to accident**

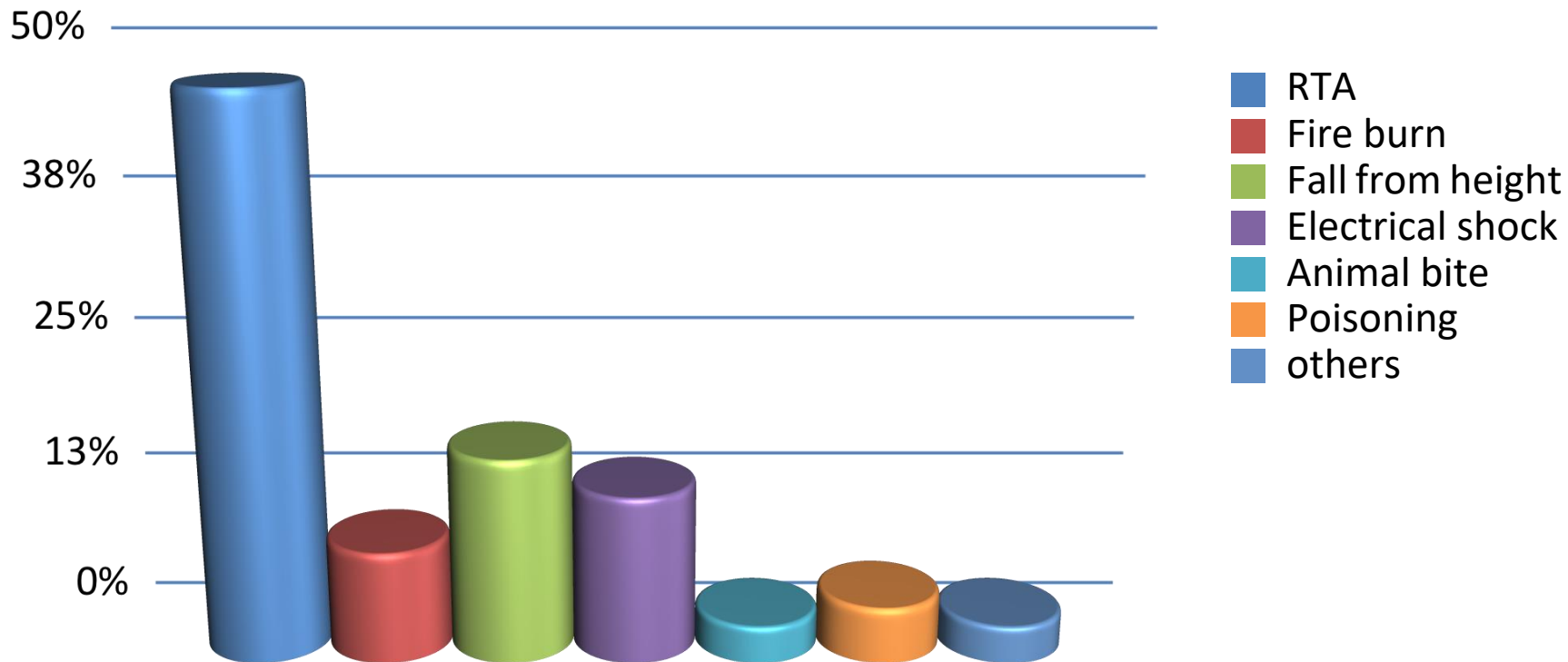
Person state	percentage
Alive	90.83 %
Dead	9.16 %

RESULTS



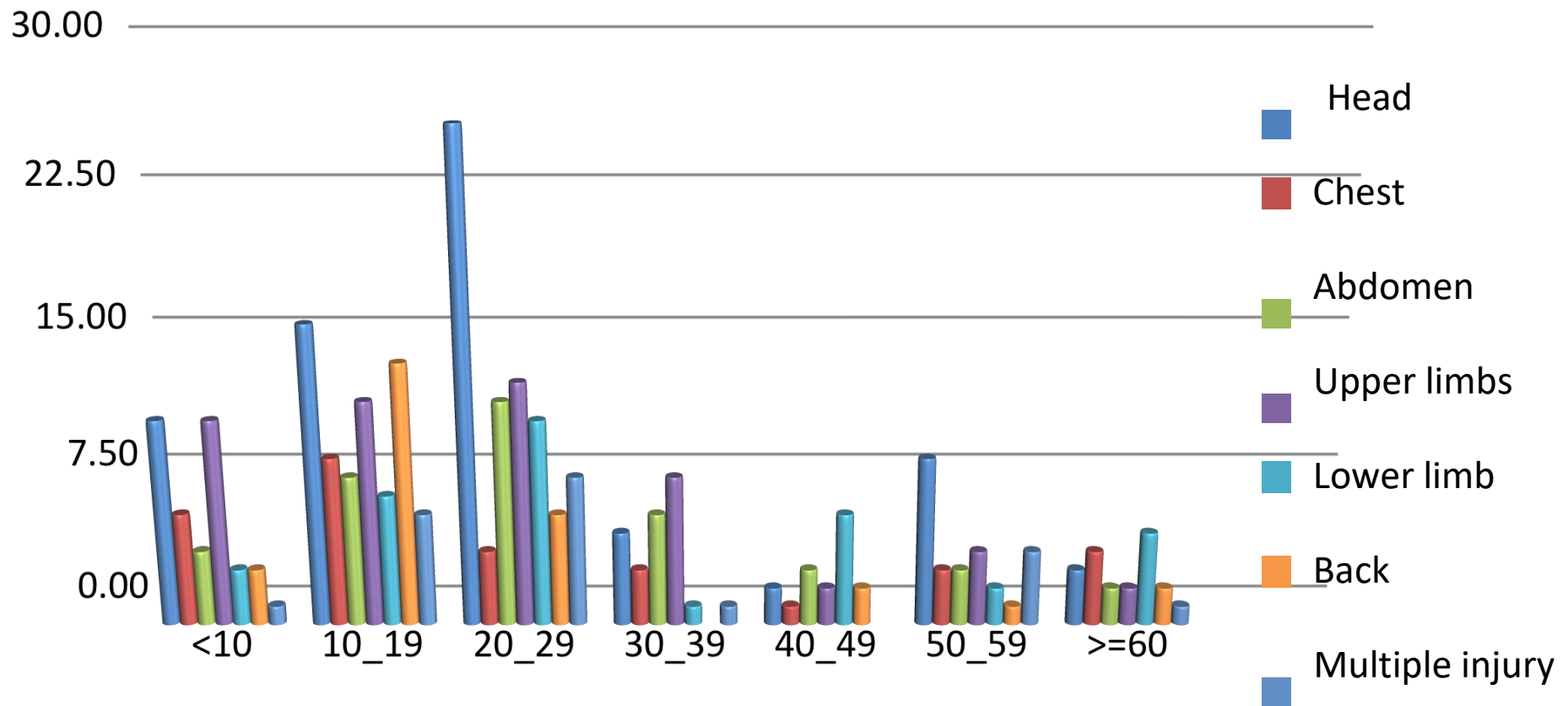
- **Figure 1 : percentage of accident in male and female**

RESULTS



• Figure 2 : percentage for the types of accident

RESULTS



• **Figure 3 : relation between age and site of injury**

DISCUSSION

- During what we conducted on the subject of accidents . The higher rate of death caused by falling from a height (44.3%), then electrocution (17%) and falling objects directly on the victim (17%), hit by a vehicle and collapse of soil dumps (5.7%) in journal medicine in Jordan, but in our research the highest one Dead case due to RTA 78.26% Fall from height (8.69%) and from Burn (4.34%) also from Electrical shock (8.69%).
- in one of the article the Young drivers of ages less than 25 years and elderly of ages over 60 years are over-involved in accidents, also in other One have The leading age group is 25-29 years (22.7%), followed by 35-39 years (18.2%) and 18-24 years (17.0%). However, in our presentation the highest group is 20-29 years (30.27%), followed by 30-39 (17.92%) and 40-49 (16.33%)
- Also Head injury was the higher rated type of injury among them by (21.6%) and thoracic and abdominal organs injuries were in (18.2%) of the cases examined. Moreover, 17% of were caused by multiple injuries and electrocution, in our search also the head injury the highest about (37.05%) and upper limbs about (20.71%), followed by lower limbs about (14.34%)

CONCLUSION

- . During what we conducted in the subject of accidents, it was found that: 62.94% was men. The remaining 37.05% are women Most type of accidents is road traffic accidents [RTA] 47% And then , Fall from height 17.52% ,Electrical shock 14.34% , Fires/Burn 9.56% Poisonings 4.78% , Animals bite 3.18% , Others 3.58%.**
- .When researching the age group and what are the most common sites of injuries for each age group, it was found that: A common site of injury under 10 years was Head and Upper limbs , Common site of injury between 10-14 years Head and upper limbs , between 15-19 years Head and Back and between 20-29 years Head also,Between 30-49 years Upper limbs ,followed by age 50-70 years Head and chest.**
- . The Percentage of sites of injuries about(Head 37.05% , Upper limbs 20.71% , Lower limbs 14.3%,Chest 13.14% , Abdomen 11.5% ,Back 6.37% , Multiple injuries 8.36%).**
The percentage of accidents according to the age group the Most common age group was from 20-29 years about 30.2% , Second one 50-70 years about 18.72% ,Then 15-19 years about 17.92% , also 30-49 years about 16.33% , <10 years about 15.5% Last one 10-14 years about 12.74%.

CONCLUSION

When research was conducted to find out which area these cases belong to, it was found that 70.91% of cases people lived in Urban and 29.08% in Rural area. When highlighting the issue of the time in which the accident occurs 76.892% of accidents occur in Day time and 23.107% in Night.

Through the data included and explained when collected and collected, it is clear that there is 9.16% of cases Dead and 90.83% alive also, the Dead cases due mostly to RTA about 78.26%, then Fall from height about 8.69% ,Burn about 4.34% , lastly Electrical shock about 8.69%

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