Electrical incidents

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Electrical incidents

1/Low – voltage current 220 V

2/ High- voltage current 440- 1000 V in industry above 1000 V in power lines

3/ Lightening

The extent of damage depends on

- voltage
- type of current
- path of current
- time

The higher voltage and intensity of current the more damage

3 % v of all injury by low voltage is fatal

30 % of all injury by high voltage is fatal

Signs

Cardiac arrest, stop of breathing Arythmia, fibrilation of ventricles, asystolia Muscle spasm Paralysis of muscles for breathing **Unconsciousness** Haemolysis and myoglobinuria – kidney failure Avulsion of tendons and vertebral fractures Burns – in enters and in exits Trombosis, ischemia, necrosis Monoparesis, paraplegia

Low voltage current

Arythmia, asystolia

Tetania, difficult breathing

High voltage current

May jup up to 18 m from its source

The power must be cutt off before approaching to casualty

Fatal Thermal damage Muscular spasm

First aid

Do not touch the casualty still being in contact with the electricity source Turn off the source of electricity Move the source away - wooden stick Stand on a insulating material CPR Defibrilation Sterile dressing of burns Transport to ITU

Lightening

Cardiopulmonal arrest Thermal injury, burns

First aid

Clear everyone from the site of a lightening strike since it can strike again in the same place

