

# First Aid Cold Exposure

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# Damage of organism

- Local frostbites
- General hypothermia

 they are caused by very cool environs on exposed part of the body (mostly fingers, nose, chin, ears) or by touch of very cool object

liquid nitrogen, ice directly on skin

 affected tissues are firstly pale, waxy white, blue spots could proceed stage by stage, they get black, could be blisters

 firstly ador and stinging pain, then loss of sensibility, white numb skin

#### First aid – in the field

- replace clothing
- hot liquids to drink
- warm with body heat (don't rub)

### return of sensibility till 10 min.?

YES – continue in trip NO – go into the nearest shelter

#### First aid - indoor

- put off the rings!!!
- expose affected parts, if you can
- warm bath 40°C + Betadine or Iodine disinfectant
- enough liquids
- due to range of frostbites call EMS 155
- check on vital signs

www.horosvaz.cz - we recommend!!!



www.perun.cz

- is caused by very cool environs on organism; wind makes the effect much greater!!!
- general hypothermia of organism
- gradual fall of physical temperature leads to slow down of vital signs, then to death

In winter – homeless (the most endangered group of people), mountain climbers

Near drowner – both in summer (!!!) and in winter

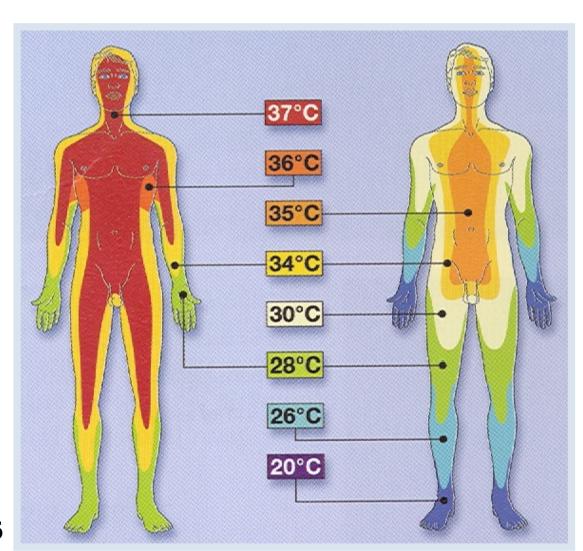
## **Stages:**

- firstly casualty has shivering fit, clammy, pale, dry skin
- then shivering fit ends, inadequate behaviour starts, slow, apathic ... unconsciousness
- Final stage: slowmotion of pulse rate and breathing... cardiac arrest

# picture Defensive mechanism

Conation to maintain maximal physical temperature

Keggenhoff, 2006



- Due to consciousness level give to casualty hot liquid, hot chocolate...
- care about heat comfort isolate from the ground + cover the casualty
- if it beginns inadequate, slow, apathic behaviour – don 't move with casualty
- dialling of EMS 155
- check on vital signs