Go the extra mile in health

Virtual Experience Day International Track of Medicine

Post-discussion about the case: A fresh nose

Literature round:

Guyton was the main source used by everyone in the group discussion

Problem: What are the baseline measurements of the human body, and the subsequent effect of alcohol on the body?

Learning goals:

- 1. What is a normal pulse frequency?
- 2. What is a normal breathing frequency?
- 3. What is a normal rectal temperature?
- 4. What are the consequences of alcohol?
 - a. What happens in the body?
 - b. What can be seen from the outside?
- 5. Which steps do you need to do as a caregiver?
 - a. Is there a general guideline?
 - b. Is there a guideline concerning unconscious person?
 - i. Are there differences concerning the cause of consciousness)

Answers to the learning goals:

1. What is a normal pulse frequency?

A normal pulse frequency: 60-80 times/minute at rest It can be between 60-100 when exercising However, this can vary depending on the person's age, weight, height, health and whether any illicit substances were consumed e.g. in this case alcohol

2. What is a normal breathing frequency?

This is usually between 14-20 times/minute

This can vary on the medical conditions that a person has, their height, weight, and or age Also varies with exercise, where the breathing frequency increases

3. What is a normal rectal temperature?

It should around 36.5-37 degrees Celsius

It is often measured using a thermometer placed in the anus

- 4. What are the consequences of alcohol?
 - a. What happens in the body?
 - b. What can be seen from the outside?

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As your sympathetic nervous system is affected by the alcohol, various consequences can eb observed including:

Dilated blood vessels

Reduced responsiveness

Similar to effects of that of anaesthesia

Faster cooling of the body – however person feels warmer/hotter

Impaired balance

Dilates pupils

Dehydration: more water is excreted by the kidneys

- 5. Which steps do you need to do as a caregiver?
 - a. Is there a general guideline?
 - b. Is there a guideline concerning unconscious person?
 - i. Are there differences concerning the cause of consciousness)

The general guideline for steps provided as a caregiver is the following

- 1. When you arrive at the scene you check for the safety of the patient, as well as your own safety a hurt caregiver cannot give any aide
- 2. You assess the situation of the victim using the ABCDE method of analysis

Letter	Life-threatening condition
A – Airway	Airway blockage, cervical spine injury
B – Breathing	Tension pneumothorax, pulmonary oedema, bronchospasm
C – Circulation	Shock (hypovolaemic, obstructive, distributive, cardiogenic)
D - Disability	Seizure, hypoglycaemia, meningitis, intracranial haemorrhage or infarction, intoxication
E – Exposure	Hypothermia or hyperthermia, critical skin conditions such as fasciitis or urticaria

- 3. Call 911, and continue giving first aide and care to the victim/patient
 - a. Always appoint a person to call 911 if you are not able, in order to avoid the bystander effect
- 4. Continue providing aid, assessing the situation as well as your study
 - a. Ask questions
 - b. Provide CPR if needed

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The guidelines concerning an unconscious person are a bit different:

You place them in the recovery position, to prevent them from choking on vomit or their blood

Keep checking their breathing and circulation

Make sure that the situation is safe

If they stop breathing, lay them flat on their back

Provide CPR and rescue breaths in a 30:2 ratio

For every 30 chest compressions

You provide 2 rescue breaths

Do the chest compression in the beat of staying alive

Once breathing again, place again in recovery position



