MUNI | SIMU MED

Stroke

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Learning objectives

- Student will learn main stroke causes.
- Student will learn how to recognize the symptoms of stroke based on an abbreviation FAST.



Introduction

- serious cardiovascular condition
- the second most common cause of death
- "time is brain" if stroke is suspected, call EMS very quickly
- longer the patient without any help, lower the chance of his recovery

Risk factors:

- hypertension
- atherosclerosis
- obesity and lipid metabolism disorders
- smoking and lack of exercise



Definition

- poor blood flow to the brain results in its dysfunction and cell death
- brain cells are able to survive without oxygen supply for 3-5 min
- sudden change in behaviour or movement can occur
- according to damaged cerebral artery and area of the brain, we can see different symptoms



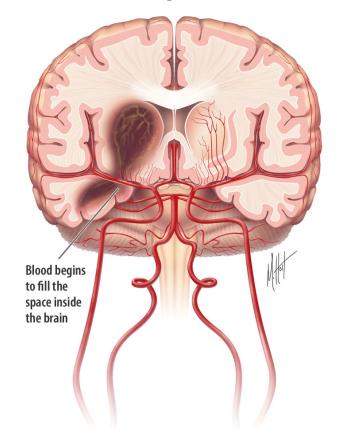
Types of stroke

2 types:

hemorrhagic: low perfusion behind the hemorrhage from cerebral artery

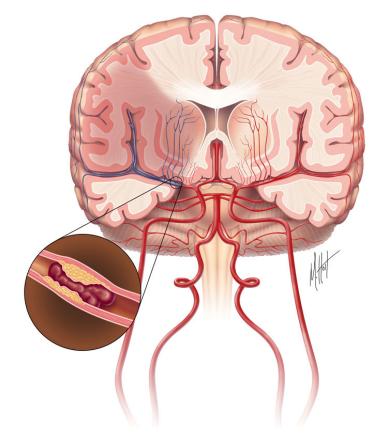
(20%)

- intracerebral bleeding occurs





> ischemic: an obstruction of the cerebral artery due to thrombus (80%)





Symptoms

- sudden onset of face and muscle weakness, dizziness, rapid headache (thunderclap headache), abnormal speech,...
- vomiting
- **F** (face)
- **A** (arms)
- **S** (speech)
- **T** (time)

(BE)FAST

- **B** balance (loss of balance, dizziness, headache)
- E eyes (blurred vision, anisocoria)



> CAVE: Stroke is not diagnosed JUST to elderly but more often also to young people!

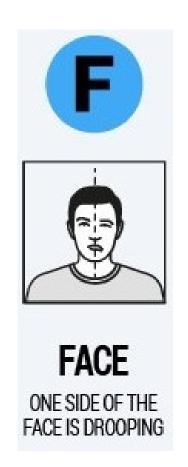


F - FACE

- face asymetry
- one side of the face is dropping
- crooked smile
- eyelid drop



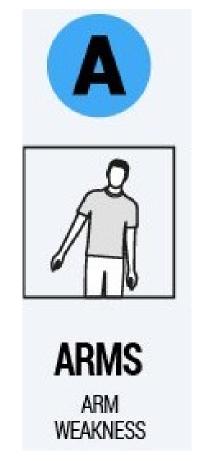
Can the casualty smile symmetrically?





A - ARMS

- arms asymetry
- muscle weakness (more on one side)
- arm drift



Can the casualty hold his arms in the same level after raising them with closed eyes?



S - SPEECH

- speech disorder
- abnormal speech
- inability to say a whole sentence
- incomprehensible words





Can the casualty speak clearly without difficulties? (f.e. name or simple sentence)



T - TIME

- time is brain
- call an ambulance immidiately
- one positive symptom of acronym FAST is enough to suspect stroke
- if you are not sure call!





First Aid

- SSS ABC
- sit the casualty down and calm him down while waiting for an ambulance
- monitor his vital signs (level of consciousness, airway, breathing, circulation)
- if the casualty is unconscious and not breathing normally start providing CPR
- do not give any fluids or food to the patient for the risk of aspiration



Learning outcomes

- Student can recognize the main symptoms of stroke by following FAST abbreviation.
- Student knows how to provide first aid in the conscious or unconscious patient with stroke.



Resources

1) Stroke - Symptoms and causes. In: Mayo Clinic [online] [cit. 22.08.2020].

Available from: https://www.mayoclinic.org/diseases-conditions/stroke/symptoms-causes/syc-20350113

2) CÉVNÍ MOZKOVÁ PŘÍHODA DETAILNĚ - FNUSA [online] [cit. 22.08.2020].

Available from: https://iweb3.fnusa.cz/o-nemocnici/cmp/cevni-mozkova-prihoda-detailne/

3) FA-CPR-AED-Part-Manual.pdf [online] [cit. 22.08.2020].

Available from: https://www.redcross.org/content/dam/redcross/atg/PHSS_UX_Content/FA-CPR-

AED-Part-Manual.pdf



Thank you for your attention.



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