

4.1 Head and spinal injury

concussion	ارتجاج بالمخ
Fluid Pluid	سائل
Incident - Accident	حادثة
minor bump	نتوء طفيف (خفيف)
Scalp wounds	جروح فروة الرأس

severe	<mark>شدید</mark>
Skull fractures	كسر الجمجمة
Sudden swelling or bruising	التورم أو كدمات مفاجئة
unconsciousness	<mark>فقدان الوعي</mark>
Unintended or Unexpected	غير مقصودة أو غير متوقعة

Knowing how to respond quickly and properly in scene of accident can increase the patient's chances of recovery & it could save their life.

Different emergencies have different injuries, different symptoms and require different actions

emergency : طوارئ unintended or unexpected incident that requires immediate action

	إصابات الرأس Head injuries
meaning	physical injury to the scalp, skull, or brain.
	can range from a minor bump on the skull to a severe brain injury.
common	- concussion (type of head injury usually happens from falls, car accidents and sport
injuries	injuries or object hit hard so brain moves inside skull) - scalp wounds - skull fractures
types of	Open head injuries: injury where object breaks the skull. (common in car accidents)
injuries	Closed head injuries: injuries which skull not broken by object
Sign &	Unconsciousness Unresponsive Acting sleepy or confused(مرتبك) Fits or seizures
symptoms	Difficulty speaking or staying awake
	Problems with senses (hearing loss, double vision) Amnesia (memory loss)
	Blood or clear fluid coming from ears or nose Vomiting
	Sudden swelling or bruising around both eyes or behind ears

Spinal cord: long thin tube-like bundle of nerves, tissues, and cells

it sends nerve signals from brain to rest of body & it's protected by bones

Spinal cord from brainstem & down to spine bottom (brain+spinal cord)=central nervous system



	Spinal injuries إصابات العمود الفقري
meaning	damage to spinal cord that blocks communication between brain & body.
common	Car accident & Sport injuries Falls from height Violence(عنف) Cancer Osteoporosis
causes	Diving into shallow water(مياه ضحله) Multiple sclerosis Inflammation of spinal cord
symptoms	extreme back pain or pressure in neck, head, or back difficulty with balance & walking difficulty breathing after injury oddly positioned or twisted neck or back (وضع غريب أو ملتوي في الرقبة أو الظهر) Weakness, lack of coordination or paralysis in any part of body Numbness, tingling or loss of sensation in hands, fingers, feet, or toes





Emergency medical care for head & spinal cord:

moving them could cause further damage

For spinal injuries, or moderate to severe head injuries, call ambulance straight away if the person:

become very sleepy behaves differently develops a severe headache or stiff neck has pupils (dark central part of eye) with unequal sizes unable to move an arm or leg loses consciousness (even briefly) Vomits more than once

you should stop any bleeding by pressing clean dressing on wound don't apply pressure to head wound if there's suspected skull fracture Ice can be applied to swollen area of head

If person vomiting roll the person's head, neck, and body, <u>as one unit</u>, onto their side to prevent choking (protects spine which you must always assume is injured in the case of head injury)

injuries higher up spinal cord result in more severe effects can result in paralysis

paralysis: loss of ability to move or feel anything in part of body. (شلك)

عددة : dressing يختنق : Choking فترة قليلة : briefly يتصرف : behaves يختنق : dressing تفترض : pressure : منط : stiff تعين : suspected تعين : swollen متورم : woulder متورم : unequal sizes متورم : dressing تعين : متابع تعين : woulder متورم : woulder متورم : woulder متورم : swollen متورم : woulder درح : woulder درص : woulder



4.2 Stroke

AED	مزيل الرجفان
burst	ينفجر
<mark>cells</mark>	خلايا
immediately	<mark>فورًا</mark>

numbness	خدر
supply	إمداد
unresponsive	غير مستجيب
weakness	ضعف

	stroke السكتة الدماغية
meaning	supply of oxygen to the brain is reduced or stops completely (cells in brain begin to die because of not getting oxygen)
caused by	blood clot (blockage of blood flow) or burst in an artery that carries blood to brain
Signs &	FAST to recognise:
symptoms	Face drooping: one side face droops * numbness in face? *
	Arm weakness: weakness in 1 or both arms?
	Speech difficulty: difficult to talk? speech sound different?
	Time: if yes to any of them person could be having stroke so call emergency services
	immediately & let operator know that you suspect patient is having stroke
Emergency	If you suspect someone is having stroke:
medical care	- Call emergency services. Be sure to follow up with them & ask them how long they
	will take to arrive
	- Get first aid kit & AED
	- Take note of time that patient started to experience symptoms, or when you found
	him
	- Stay with the person until emergency services arrive & give medical team any details
	you know about patient
	- If person become unresponsive & not breathing well be prepared to give CPR

Treating early can reduce damage caused by stroke, and it can improve their chances of recovery

Strokes (anyone - anytime)

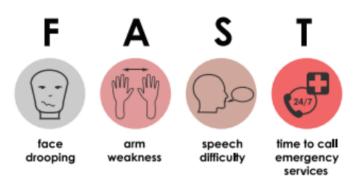
In UAE between 10,000 - 12,000 people suffer from strokes every year equals to 1 stroke every hour half of them younger than 45 years old

smokers 4 times more likely to have stroke than non-smokers

do exercises, make healthy choices to prevent

In severe stroke 1.9 million brain cells die per minute

If stroke patients get help fast, more likely to survive with little or (no disability إبدون اعاقة)







4.3 Diabetic episode

Diabetes : سكري body unable to properly produce or respond to insulin hormone

who have diabetes often take medication it helps control their blood glucose levels

diabetic episode happens when person experiences extreme (hypoglycaemia or hyperglycaemia)

when body doesn't respond to insulin level of blood glucose becomes too high (hyperglycaemia)

	Hypoglycaemia (انخفاض السكر في الدم)	
happen	main reason: incorrect of insulin medication (take too much at once - take insulin at	
when	wrong times)	
person:		
	doesn't eat meal hasn't eaten enough food does a lot of physical activity without	
	fueling their body correctly (eating enough)	
Signs &	Dizziness Feeling hungry Irritated Pale skin Fast heartbeat Shaking Sweating	
symptoms	Sleepiness	
Emergency	drink sugary juice or eat sugary snack	
medical	After 15min they should test their blood glucose levels. If hasn't returned to normal it	
care	should eat more	
	if person is conscious but unable to eat you should put some honey or sweet syrup in	
	their cheek inside mouth & monitor them	
	If person becomes unconscious, you should call 998 & ask for emergency medical help	





	Hyperglycaemia (ارتفاع السكر في الدم)	
meaning	when blood glucose levels too high because insulin not present or body doesn't	
	respond to insulin that's present.	
main cause :	when person with diabetes doesn't receive insulin treatment or eats too many sugary	
	foods	
Signs &	Increased thirst Headaches Blurred vision Weakness Need to urinate frequently	
symptoms		
Emergency	In most cases, it can be resolved by :	
medical care	Changing dosage of insulin Eating fewer carbohydrates & sugary foods Exercising	
	more	
	If blood glucose levels very high or if person has hyperglycaemia for very long time, it	
	can lead to life-threating complications.	
	If hyperglycaemia symptoms worsen, or if person has problems breathing, very dry	
	mouth, or fruity smell in their breath, they should see doctor	

غير واضح : blurred دوخة: dizziness مضاعفات: complications جرعة : dosage جلد شاحب : pale skin منزعج : irritated زاد : increased غير صحيح : incorrect التزود : fuelling اهتزاز : shaking تبول متکرر : urinate frequently عطش : thirst تعرق : sweating نسوء: worsen

Hypoglycaemia



Normal



White blood cell

Hyperglycaemia



Hypoglycaemia



























4.4 Seizures

	نوبات Seizure		
meaning	disruption in electrical activity in brain		
	It leads to muscle contractions that body cannot control & can cause person to become		
	unresponsive		
causes	most common: epilepsy		
	Head injury Lack of oxygen Hypoglycaemia diabetic episode		
	Reaction to medication Cardiac arrest		
Signs &	Sudden loss of responsiveness Stiff body with an arching back Grey/blue lips		
symptoms	Noisy, difficult breathing Sudden uncontrolled movements Loss of bladder or bowel control		
(adults)	Saliva at mouth, possible bloodstained if they have bitten their tongue or lip		
Emergency	1. Make sure casualty protected by clearing away any dangerous objects (Sharp objects,		
medical	Chairs, hot drinks)		
care	2. Make note of time seizure started & continue monitoring time. If you can ask someone		
	else to do it for you		
	3. Place soft padding (rolled-up towel) under casualty's head if you can		
	4. Loosen any clothing around casualty's neck		
	5. When movements stop open causality's airway & check for breathing		
	yes: put him in recovery position No: call 998 & be prepared to provide CPR		
	When someone having seizure Don't do any of this:		
	Don't hold or restrain casualty Don't move them unless they're in danger		
	Don't put anything in their mouth		
	Call 998 for emergency help if:		
	Causalty's first seizure or repeated seizures cause of seizure unknown		
	seizure continues for more than 5min unresponsive for more than 10min		
	injury on another part of body		

	Seizure in young children		
Seizure & young children	usually caused by raised body temperature, often following infections. febrile seizure: brain isn't developed enough to cope with body's high temperature		
Signs &	similar to adult seizure but there're some extra warning signs for children:		
symptoms	Loss or lack of responsive Strong shaking, with clenched fists & arched back		
	Twitching of face Signs of fever, hot, glowing skin & sweating		
	Squinting, fixed or rolled-back eyes Breath-holding with red face &neck		
	drooling at mouth Vomiting Loss of bladder or bowel control		
Emergency	for febrile seizure : same for adult + you should try cool the child down & wait until		
medical care	they've stopped having seizure to remove any bedding & any extra clothing that could		
	help cool them& make sure there's fresh air circulating or use air conditioning for this		

arched : مقوس bitten : عض bladder ملطخ بالدم blood stained المثانة cardiac arrest مطخ بالدم cardiac arrest المثانة clenched fists الضحية : cpe الضحية : CPR الضحية bloosen : فيضة محكمة restrain : تقييده restrain فك loosen اضطراب

to place someone into the recovery position

- 1. Kneel down beside the casualty.
- 2. Remove any phones or bulky items from their pockets.
- ${\bf 3.}\, {\bf Take}\, {\bf arm}\, {\bf closest}\, {\bf to}\, {\bf you}\, {\bf and}\, {\bf put}\, {\bf it}\, {\bf at}\, {\bf a}\, {\bf right}\, {\bf angle}\, {\bf to}\, {\bf their}\, {\bf body}\, ({\bf with}\, {\bf their}\, {\bf palm}\, {\bf facing}\, {\bf up}).$
- 4. Move the other arm across their chest and put the back of their hand on their cheek.
- 5. Lift the far knee up until the foot is flat on the floor.
- 6. While keeping the casualty's hand pressed against their cheek, hold the raised knee, and roll them towards you.
- 7. Once fully over, re-adjust the head position if needed and place the top leg at a 90° angle.





4.5 Allergic reaction

antibiotic antibiotic	مضاد حيوي
antibodies	أجسام مضادة
bites & stings	عضات ولدغات
collapsing	ینهار - یسق <mark>ط</mark>
confusion	ارتباك
<mark>cough</mark>	سعال
diarrhoea	اسهال
dispose	<u>تخلص</u>
dust & pollen	الغبار وحبوب اللقاح
gradually	تدريجيًا
<mark>hipbone</mark>	عظم الورك
immune system	جهاز مناعي

instructions	ارشادات
itchy	حكة
knee	ركبة
<mark>needle</mark>	إبرة
released	منبعث
Sneezing	عطس
stomach	معدة
thigh	فخذ
throat	حلق
tightness	ضيق
tip	ر أس
tongue	<mark>لسان</mark>

	حساسية Allergy
meaning	immune system mistakes a normally harmless substance as dangerous substance (allergen المادة المسببة للحساسية) so Immune system overreacts to allergen by producing antibodies that produce chemicals causing allergic reaction.
more common	in children than adults & most allergies are lifelong, some will go away as child gets older. adults can develop allergies to things they weren't previously allergic to.
Common allergen	dust & pollen animals Insect bites & stings Medicines (antibiotic penicillin) food (nuts, eggs, gluten, shellfish and cow's milk)
Signs & symptoms of allergic reaction	(usually develop within few minutes when it's happened & can develop gradually over few hours)
Signs & symptoms of mild allergic reaction	Sneezing & itchy, runny, or blocked nose Itchy, red, watering eyes Chest tightness, shortness of breath & cough Swollen lips, tongue, eyes, or face Stomach pain, feeling sick, vomiting or diarrhoea

Most allergic reactions are mild(غير قوي) but there are also severe reactions called anaphylaxis

(حساسية مفرطة)anaphylaxis affect whole body & it can be life-threatening symptoms vary depending on allergy & how person contact with allergen

types of allergic reaction (mild, anaphylaxis)



Signs &	any symptoms of mild allergic reaction + these:
symptoms of anaphylaxis	Swelling of throat & mouth difficulty breathing confusion
	collapsing & losing consciousness blue skin or lips
medical	there's 2 types of adrenaline auto-injectors: for adults, for children
emergency of anaphylaxis	Adrenaline auto-injector help to stop allergic reaction & its symptoms.
	If person has adrenaline auto-injector you might help him find it
	If he is conscious allow him to administer it himself
	call emergency services if you suspect someone is having severe allergic reaction
Administering adrenaline	1. Ask the person if he has allergic reaction. if he respond yes ask him if he has adrenaline auto-injector
auto-injector	2. help him to find adrenaline auto-injector
	3. always read instructions on adrenaline auto-injector.
	Don't put your hand over tip of injector this were injection released
	4. remove safety cap
	5. hold person's leg firmly(ثبتها) in place. Injection should be given halfway between hipbone & knee
	6. place tip of adrenaline auto-injector where injection released hard against the person's thigh
	7. pen should be held in place for an advised length of time (in the instructions). generally, between 3 & 10 seconds
	8. pull out the auto-injector & take care not to touch the needle
	9. after injection, rub thigh where injection was administered for about 10s
	10. take note of all details (time of injection)
	11. all details should be passed on emergency services when they arrive
	12. give adrenaline auto-injector that's used to emergency team to dispose of it properly



