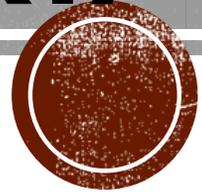


SUMMARY OF ASPHYXIA

By Fahed zakout 5th year medical student

Special thanks for DR lamia for correction



? SO WHAT IS ASPHYXIA

= cessation of oxygen = حرمان الجسم من الاكسجين?

= Causes of asphyxia?

Asphyxia has a lot of causes like environmental = co poisoning , pathological like cancer? or diphtheria and violent which are going to talk about in this lecture



WHAT IS VIOLENT ASPHYXIA

??

Mechanical interference with the airflow in the respiratory passage leading to hypoxia and Hypercapnia and as a consequence acidosis

: Causes of violent asphyxia

= A- Hanging

B- strangulation

C- suffocation

D- Drowning



HANGING

Defintion = suspension of the body weight ligature around the neck?

Types = complete vs incomplete?

Complete = body is fully suspended vs incomplete (lower body touch the ground?)

: Postmortem changes in hanging?

س، = Main changes?

1- hypstasis = in lower limb = becacuse it will be the dependent part?

2- Dilated pupil = if the knot of the ligature press on sympathetic?

3- drolling of saliva = most important sign to insure that the patient was alive when he?

انخفق or she

= 4- ligature marks?



Type of
hyposatsis in
hanging is called
gloves and
stocking

CONT HANGING

4- ligature marks?

It will be above thyroid cartilage?

Incomplete?

Oblique?

Hanging also are classsified depending according to the type of knot is it fixed or loose and accring to to the position of the knot is it typical or a typical



مقارنة بين الشنق ما قبل الموت أو ما بعد الموت :-

Differentiation 10.1: Antemortem and postmortem hanging			
S.No.	Feature	Antemortem hanging	Postmortem hanging
1.	Salivary dribbling mark	Present	Absent
2.	Fecal/urinary stains	May be present	Absent
3.	Ligature mark <ul style="list-style-type: none"> ◆ Direction ◆ Continuity ◆ Level in the neck ◆ Parchmentization ◆ Vital reaction 	Oblique Non-continuous Above thyroid Present Present	Circular Continuous At or below thyroid Absent Absent
4.	Knot	Single, simple, on one side of neck	Multiple, granny or reef type on occiput/chin
5.	PM staining <ul style="list-style-type: none"> ◆ Above ligature mark ◆ In lower limbs ◆ Glove-stockings like 	Present Present Present	Absent Absent Absent
6.	Evidence of injury <ul style="list-style-type: none"> ◆ Self-inflicted ◆ Struggle ◆ Tear of carotid artery intima ◆ Imprint abrasion 	Present Absent Present Present	Absent Present Absent May/may not be present
7.	Elongation of neck	Present	Absent
8.	Cyanosis	Deeply positive	Absent or faintly present
9.	Emphysematous bullae on lungs	Absent	Present
10.	Point of suspension	Compatible with self-suspension	Not so
11.	Histochemistry of ligature mark	Increased serotonin and histamine	Not so



STRANGULATION

: Types of strangulation?

A- ligature strangulation?

B- throttling = manual = by hands?

C- mugging = by elbow or knee?



A- LIGATURE STRANGULATION

The key here is to differentiate it between the hanging ligature?

Ligature strangulation will be = below the thyroid cartilage , complete , and horizontal?

, Again , in contrast to hanging strangulation which will be = above thyroid cartilage?
incomplete and oblique



B- THROTTLING

: What you have to know here that there will be 

A- semilunar abrasion that will take the shape of the killer fingers , 4 fingers on one 
side , and one finger on the other side

? Why this is important 

To determine the dominant hand of the killer (right vs left) 

**Finger marks in
throttling is called six
Pennies**



SUFFOCATION

Is mechanic obstruction. To air passages other than. Drowning or pressure on the neck

[* Mnemonic = BSCOT]

: Has different types

Suffocation				
Smothering	Chocking	Overlying	Traumatic asphyxia	Burking
It is a manual obstruction of the external respiratory orifices, i.e. the mouth and nostrils.	It is an inside occlusion of the air passages by foreign bodies.	occurs when the sleeping mother overlays her suckling infant by rolling on it or by accidental resting her arm or her heavy lactating breast on its respiratory orifices.	Asphyxia resulting from respiratory arrest due t o mechanical fixation of chest, so that the normal movements of chest wall are prevented.	Is a combination of homicidal smothering and traumatic asphyxia.



? WHAT IS THIS

