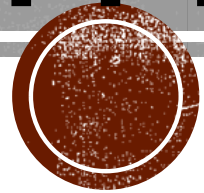


SUMMARY OF DEATH

Done by Fahed zakout 5th year medical student
Special thanks for DR.lamia for correction



WHAT IS DEATH

Irreversible cessation of life?

Phases of death?

1- somatic (clinical death)?

2- molecular death (cellular death)?

) Somatic death is = complete and irreversible cessation of the vital functions of the
(brain , heart , lungs

In somatic death (your cells can respond to external stimuli , like pupil dilation and
constriction

Between somatic and molecular death (there is a period called physiological gap)?



CONT + HOW TO DIAGNOSE SOMATIC DEATH

In the physiological gap you can transplant organ?

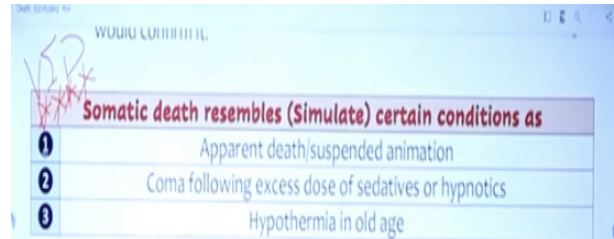
= Diagnosis of somatic death?

1- cessation of heart beating (by absent of heart sounds for a continuous period 5-10 minutes , and Flat ECG

2- cessation of breathing?

3- CNS (by dilated fixed pupil , ANSENT of papillary and corneal reflex , flat EEG?

حالات تشبه) somatic death)



) MOLECULAR DEATH (CELLULAR DEATH

It's ultimate death of all cellular elements?

Cells will death when the oxygen gets depleted?

Happen 2-4 after somatic death?

Last tissue that death is muscle tissue which take 3-4 hours?

Diagnosis = absence of any response to an electrical , thermal , or chemical stimulus?



SIGNS OF DEATH

- * Postmortem cooling = Algor mortis
- * Post mortem lividity = color changes
- * Muscle changes = Rigor mortis

(Somatic) Death Changes (Signs of Death) 11

(Due to Molecular Death)

Immediate changes	Early changes	Late changes
<ul style="list-style-type: none">• Insensibility (Cortical death)• Respiratory arrest• Circulatory arrest• Brain/brainstem death	<ul style="list-style-type: none">• Postmortem cooling• Eye changes• Skin changes• Postmortem lividity• Muscle changes	<ul style="list-style-type: none">• Putrefaction• Adipocere formation• Mummification• Skeletonisation



BRAIN DEATH

Cortex death vs brain stem death?

Cortex is responsible for voluntary and sensibility and brain stem is responsible for respiration , heart sounds

So in cortex death (we will have general muscle flaccidity)?

What is vegetative state = persistent severe cortex damage without brain stem involvement?

In living cadaver = patient can breath , open eyes but the patient doesn't speak or obey command?

Brain stem death involve (coma , apnea and loss of brain stem reflex like papillary ..reflexes , corneal reflex etc



EARLY CHANGES -2

Mentioned before in the table briefly?

-Skin changes involves A?

1- skin become pale why ? = due to stoppage of circulation?

2- skin loss of elasticity and the face looks younger why ?= due to loss of creases?

تجاعيد

3- lips become brownish and dry why ? = due to drying ?



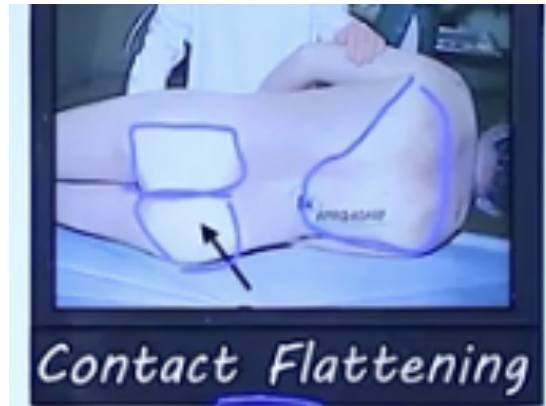
EARLY CHANGES CONT

:Muscles changes?

1- primary flaccidity = loss of Tonicity and become flaccid?

Examples of primary flaccidity (jaw drop , pupil dilate , thorax collapse , sphincter?
relax , limbs are flat

2- contact flattening = areas which remain in contact with the ground become flat and?
blood from vessels of these areas is passed out , leading to whiting of the area



CONTINUE

Note that = after death you go into primary flaccidity then rigor Mortis then again flaccidity

3- ocular changes (low IOP , eyeball will become sunken) , corneal opacity , dilated pupil , Tache noir de la sclerotique (black eye)



انتبه
Tache noir de la sclerotique
(French for Black spot of the -



POSTMORTEM CHANGES

1- cooling (algor mortis) ❓

2- livor mortis (hypostasis) ❓

3- rigor mortis ❓

4- putrefaction ❓
تعفن



DEATH QUESTION

You have to define (cause , mechanism = mode , manner?)

Cause involve = PE , thrombous , bleeding?

, Mechanism = syncope in CVS , Asphyxia in RS , Coma in CNS?

Manner = accidental , sussidcal, homosicdla?

Example?

Alcholic patient , autopsy clear except edema?

Cause of death = brain edema?

Mode/mechanism = coma?

Manner = natural?

