

A large, faint fingerprint is visible in the background. In the center, the text 'FORENSIC TEAM' is displayed, with 'F', 'R', 'N', 'S', 'I', 'C' in black and 'T', 'E', 'A', 'M' in red. Below 'TEAM' are the numbers '431'. To the right, two forensic investigators in white suits are walking.

F  **R** **E** **N** **S** **I** **C**
T **E** **A** **M**
431
LEDARES

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How does the forensics help our society

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CRIME SCENE - DO NOT CROSS CRIME

■ Slides ■ Doctors notes ■ Additional

■ Grey color : not important!

Forensic medicine

❖ How do we translate forensic medicine?

- Legal medicine, forensics,
- Autopsy , PME (Post-mortem Examination)

الطب القانوني ، الطب الجنائي ، الطب القضائي ،
الطب الشرعي ، علم التشريح المرضي ، علم الوفيات

❖ Our scope:

- PME TO DETERMINE Cause Of Death (COD)
- LEGAL SYSTEM
- DISEASE & INJURY
- IDENTIFICATION.
- WOUNDS.

Autopsy (PME)

❖ Autopsies:

- **Medical Autopsy:** requested by the patient's physician.
- **Forensic Autopsy:** In some cases, the law may mandate that an autopsy be performed.
- **Private Autopsy:** requested by the family.

The Autopsy part of the lecture is explained in detailed in “the importance of PME lecture” and dr.Theeb used the same slides in both lectures, so it is better to be studied from the team work of “the importance of PMI” lecture.

❖ Common Forensic topics in KSA: “not important dr.Theeb said just read it”

Drowning, carbon monoxide, death of females of child bearing age ~14-44 years of age, "accidental" fire arm injury, residential injuries, occupational injury, ASCAD (atherosclerotic coronary artery disease), DM, congenital disease, drug abuse, psychiatry, prisons, orphanages, death of Saudis abroad, asthma/allergies, biochemical industry, farming, unclaimed bodies, improper death certification.

❖ **Forensic as related to other health specialties and Ministry of Health: “not important dr.Theeb said just read it”**

- Paramedics and ER: PME as a quality assurance, Documentation of evidence of resuscitation
- Plastic surgery: Burns, wounds, documentation of injuries and identification.
- Ortho: Documentation of injuries, identification, causes of death; PE, fat embolism.
- Ob/Gyn: Sexual offences, abortion, abuse, recurrent fetal loss, perinatal PME
- Using Colposcopy in the Rape Exam: Health Care, Forensic, and Criminal Justice Issues
- ICU, CCU, Anesthesia, Cardiology, Cardiac surgery: Death certification, PME as a quality assurance, Documentation of evidence of resuscitation
- Neurosurgery: Death certification, Documentation of injuries, PME as a quality assurance, Documentation of evidence of resuscitation
- Neurology: Degenerative diseases, infectious disease.
- Pediatric: Abuse, neglect, Shaken baby syn., SIDS, PME and congenital disease diagnosis, inherited disease.
- Cranial Computed Tomographic Findings in a Large Group of Children With Drowning: Diagnostic, Prognostic, and Forensic Implications.
- Geriatric: Degenerative disease, Abuse, Neglect.
- Forensic Biomarkers of Elder Abuse: What Clinicians Need to Know.
- Psychiatry: Drug abuse, psychiatric disease psychosis in forensics, excited delirium. Caring for Convicts.
- infectious disease: Public health, PME, H1N1, SARS, caring for convicts.
- Ophthalmology: Retinal examination, Shaken baby syn.
- Vascular surgery: PME in Aneurysm, Dissection, Aortic Dissection and Marfan's Fatal Invasive Cervical Cancer Secondary to Untreated Cervical Dysplasia.
- Oncology: death, mortality, effects of treatment, cervical cancer fatality.
- Medical staff of a hospital, Hospital Administrator and governmental agencies monitoring health care:
 - Provides a quality control mechanism, a final yardstick by which the care of a patient can be measured
- Researcher:
 - A source of new ideas as to cause of disease
 - May also provide an evaluation of new procedures and new therapeutic agents, and an explanation of adverse reactions, with the hope that they can be prevented in the future

❖ Forensics related to other Ministries

- Military.
- Ministry of interior
- Police
- Commission for the Promotion of Virtue and Prevention of Vices.
- Fire department.
- Border and Customs.
- Correctional institutions.
- Evaluation of new weaponry; TASER, biological, etc.
- Evaluation of safety measures (for officers and transportation).
- Evaluation of security measures.
- Identification of previously known and unknown individuals.
- Excited delirium.
- Deaths of officers, prisoners, orphans.

❖ Other topics related to Forensics: “not important dr.Theeb said just read it”

- Mass disaster
- Medical errors
- Quality assurance
- CSI effect/syndrome
- Education, Research
- Sports, head injuries, cardiac disease, tests, cause of death.
- Terrorism.
- Occupational health.
- Industry.
- Transportation, car, plane, aquatic
- Forensic awareness program: KG, schools, College University, police,..etc
- Epidemiology: qualitative, quantitative studies
- Testing: military, drugs, treatments
- Safety: cars, planes, trains, high rise apartments/buildings, schools, hospitals, psychiatric intitutes
- Genetic disease, heart disease, infectious disease
- Drug trafficking, human trafficking, other

❖ The final report:

- It takes several weeks.
- A permanent part of the patient’s medical record.
- The findings may be discussed with the family physician or with the pathologist.