University of Mosul Lecture No.: College of Veterinary Medicine Date: Unit of Scientific Affairs

Website:



Lecture title: Causes of sudden Death

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Summary: Causes of sudden death in Equine

1. Cardiovascular Causes

- Ruptured aorta or aneurysm sudden internal bleeding, often during exertion.
- Heart failure or arrhythmias especially in racehorses under stress.

2. Respiratory Causes

- Pulmonary hemorrhage common in performance horses; may be massive and fatal.
- Severe allergic reactions e.g., anaphylaxis from drugs or insect bites.

3. Gastrointestinal Causes

- Severe colic due to volvulus, torsion, or strangulating lipoma, leading to shock.
- Cecal or gastric rupture sudden peritonitis and death.

4. Neurological Causes

- Trauma such as skull fractures from falls or kicks.
- Seizure-related injuries especially in horses with epilepsy.

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5. Toxicological Causes

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- Plant or chemical toxins e.g., yew, oleander, organophosphates.
- Endotoxemia from bacterial infections, leading to shock.

6. Infectious Diseases

- Anthrax sudden death with dark, unclotted blood from orifices.
- Clostridial infections e.g., Clostridium perfringens or tetani.
- Equine herpesvirus-1 (EHV-1) may cause rapid neurological decline.

7. Other

- Lightning strike
- Heat stroke or exertional myopathy
- Air embolism or embolic infarcts