NEOPLASTIC DISEASES OF LEUCOCYTES (LEUKEMIA)

Ву

Prof. Mahmoud Rushdi Assiut University Egypt

1

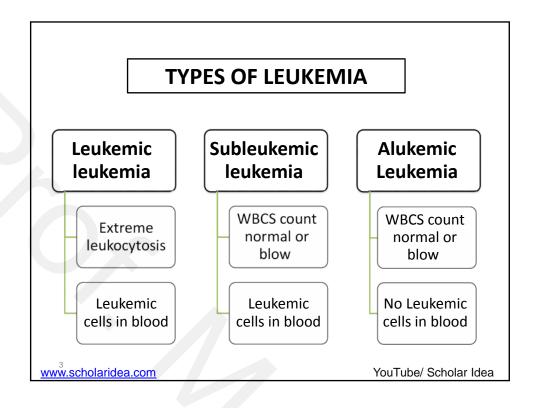
LEUKEMIA

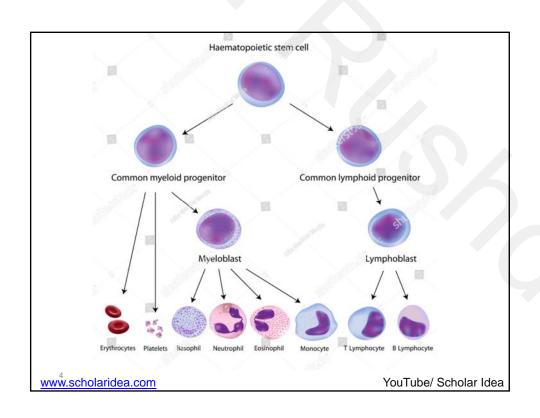
A Neoplastic disease arising in hemopoietic tissues in which increased numbers of immature or abnormal white blood cells appear in the blood or are disseminated diffusely through the bone marrow.

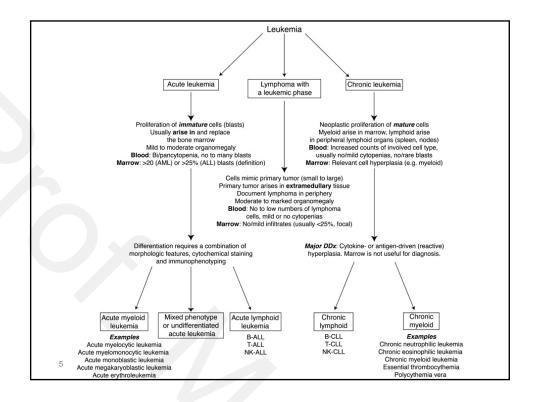
Theories regarding the etiology of leukemia

- Viral infection.
- •Genetic influence.
- •lonizing radiations.

www.scholaridea.com







Classification of leukemia

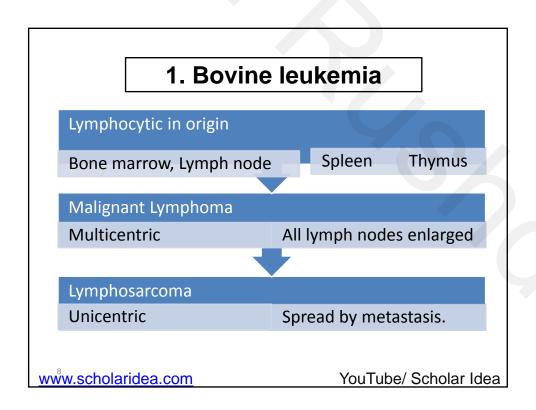
- 1. According to the duration
- 2. According to the type of cells
 - A. Myelogeous leukemia
 - B. Lymphocytic leukemia
- 3. According to the clinical signs

www.scholaridea.com

Types of leukemia

- 1. Bovine leukaemia
- 2. Ovine leukaemia
- 3. Equine leukaemia
- 4. Canine leukaemia
- 5. Feline leukaemia

www.scholaridea.com



1. Bovine leukaemia

Bilateral enlargement of all superficially located lymph nodes

Enlargement of tissues normally rudimentary as thymus

Splenomegaly, hepatomegaly and enlargement of the heart

The pressure of neoplastic masses on nerves or spinal cord may produce partial or complete paralysis

Presence of immature lymphocytes in blood as lymphoblast and prolymphocytes.

www.scholaridea.com

YouTube/ Scholar Idea

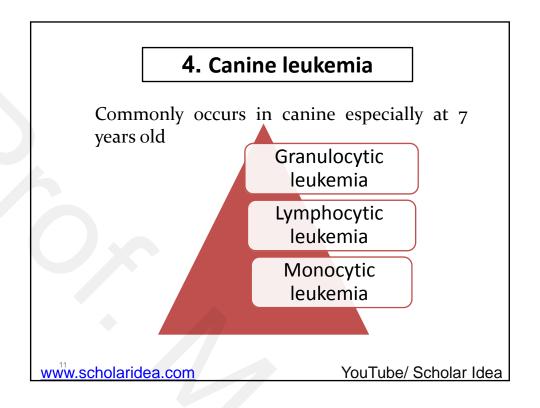
2. Ovine leukemia

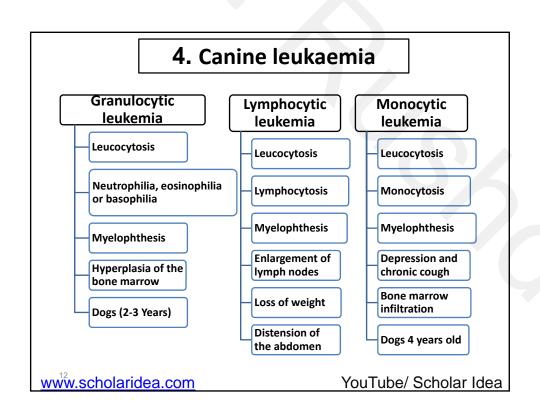
- Leukemia in sheep is rare than in cattle this because the life span of sheep is small (2-6 years).
- Clinical signs as in bovine leukaemia in addition to presence of subcutaneous collection of lymphatic tissues.

3. Equine leukemia

As in bovine leukemia.

www.scholaridea.com





DIAGNOSIS OF LEUKEMIA

In all aleukemic and subleukemic leukaemias, bone marrow examination is essential to establish diagnosis

Confirmation of leukemia is made by:

- 1. Total leukocytes count.
- 2.DLC.
- 3. PCV.
- 4. Bone marrow examination.

www.scholaridea.com

YouTube/ Scholar Idea

Handouts of the Lecture is available on

www.scholaridea.com/category/handouts website

The Video of the Lecture is
Available on
Scholar Idea
Channel on YouTube