



Clinical and Hemato-biochemical Studies on Canine Anemia

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Abstract | The study was performed to assess the common etiopathologies, clinical and haematobiochemical alterations in anemic dogs that were admitted to the teaching veterinary hospital at faculty of veterinary medicine, Cairo University and private clinics in Cairo and Giza governorates, Egypt. A total number (71 dogs) was included in the present study. This number comprises 16 apparently healthy dogs and 55 anemic cases. Historical data, clinical and hematobiochemical investigations were applied on all animals for detection of the definitive common causes of anemia. Results revealed four main definitive causes of anemia included parvoviral infection (sub-group 1): 20 cases (36% of diseased cases), ectoparasitic infestation (sub-group 2): 18 cases (32%), malnutrition (sub-group 3): 7 cases (12%) and hepatic or renal diseases (sub-group 4): 10 cases (18%). The most recorded clinical manifestations in diseased dogs were pale mucous membranes, tachycardia, tachypnea and low performance. Haematological parameters included haemoglobin (Hb), total erythrocytic count (TEC) and haematocrit (HCT) revealed significant ($P \leq 0.001$) decrease in all diseased sub-groups compared with apparently healthy group. Serum biochemical parameters showed significant increase in alanine amino transferase (ALT) level in sub-groups 1 and 4 ($P \leq 0.001$), sub-group 2 ($P \leq 0.01$), and sub-group 3 ($P \leq 0.05$). Aspartate amino transferase (AST) level showed significant increase in sub-group 4 ($P \leq 0.001$), sub-group 1 ($P \leq 0.01$) and sub-group 3 ($P \leq 0.05$). Significant decrease among glucose level was recorded in sub-group 1 ($P \leq 0.001$) and sub-groups 3 and 4 ($P \leq 0.01$). Iron level showed significant decrease in sub-group 1 ($P \leq 0.001$), sub-group 3 ($P \leq 0.01$) and sub-group 4 ($P \leq 0.05$). Copper level decreased significantly in sub-groups 1 and 3 ($P \leq 0.01$). Total protein decreased significantly in sub-groups 1 and 3 ($P \leq 0.001$), sub-group 4 ($P \leq 0.01$) and sub-group 2 ($P \leq 0.05$). All results were in comparison with apparently healthy group records. Etiopathological identification of canine anemia in the light of hematobiochemical status is helpful for further investigations and therapeutic protocol decisions.

Keywords | Anemia, Dogs, Etiopathologies, Hematology, Biochemistry.

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INTRODUCTION

Anemia is considered as a one of the most important hidden affection among dogs. Its clinical manifestations drive the owner to visit a clinician to show what is be-

hind and then manage. Clinical manifestations depend on its severity and duration and included pallor mucous membranes, tachypnea, weakness and decreased stamina. Other accompanied clinical signs included icterus and haemoglobinuria in other cases. Many anemic cases considered

A Clinical Companion To Biochemical Studies

George S. Everly, Jr., Jeffrey M. Lating



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attempts to defend Orthodoxy and Russia's historical past in America's news media via letters to the editor and publication of the Chicago Russian American Chapter 7 is devoted to the author's family i.e. life with his wife Marilyn and his sons Gregory and Alexander plus his commentary on contemporary American society His conservative world view generated by his spiritual persona and behaviors of the progressive Soviet Union and its American followers are illustrated by his letters to the news media during the 1950-2000 decades The book carries a foreword by Dr Gerasim Tikoff a friend and retired cardiologist and is illustrated by photographs from 19th century Russia and the author's life in Latvia Germany and the U S

Clinical Guide to Fish Medicine Catherine Hadfield, Leigh Clayton, 2021-09-15 Clinical Guide to Fish Medicine Designed as a practical resource Clinical Guide to Fish Medicine provides an evidence based approach to the veterinary care of fish This guide written and edited by experts in the field contains essential information on husbandry diagnostics and case management of bony and cartilaginous fish This important resource Provides clinically relevant information on topics such as anatomy water quality life support systems nutrition behavioral training clinical examination clinical pathology diagnostic imaging necropsy techniques anesthesia and analgesia surgery medical treatment and transport Describes common presenting problems of fish including possible differentials and practical approaches Reviews key information on non-infectious and infectious diseases of fish in a concise format that is easily accessible in a clinical setting Written for veterinarians biologists technicians specialists and students Clinical Guide to Fish Medicine offers a comprehensive review of veterinary medicine of fish

A Clinical Guide for Cancer Prostate Patient Narmada Gupta, 2024-11-20 This book imparts a thorough understanding of the proper diagnosis evaluation and management of a patient with prostate cancer The book provides guidelines for evaluation and investigation to reach a diagnosis with appropriate risk stratification of the disease which is essential to evaluate the patient's survival and quality of life after the treatment The book offers assistance as per the patient and disease factors appropriate treatment planning for an individual patient and treatment outcomes for a better follow up This book aims to cover all aspects of prostate cancer with an additional supplement to the existing books in urology This book targets postgraduates in urology oncology uro-oncology practicing urologists oncologists and prostate cancer patients to know all aspects of the disease

The Laboratory Diagnosis of Selected Inborn Errors of Metabolism Vicky Allen LeGrys, 1984

Practical Guide for Clinical Neurophysiologic Testing: EEG Thoru Yamada, Elizabeth Meng, 2012-03-28 Written by a noted leader in electroneurodiagnostic technology this book will be a standard text and reference for technologists neurology residents and clinical neurophysiology fellows It will be a valuable aid in preparing for the ABRET American Board of Registration of Electroencephalographic and Evoked Potential Technologists certification or the neurophysiology boards The first part covers the technical aspects of electroneurodiagnosis the second part covers clinical applications and diagnostic utilities The text focuses on digital recording and includes analyses based on digital data Emphasis is on pattern recognition artifacts recognition technical pitfalls and the clinical correlates of

electroencephalography The book includes material to assist students in recognizing specific artifacts Coverage includes principles of digital recording electronics and electrical safety A companion Website will include a question bank and a streaming video showing how to place electrodes

A Manual of Laboratory and Diagnostic Tests Frances Talaska Fischbach, Marshall Barnett Dunning, 2009 Now in its Eighth Edition this leading comprehensive manual helps nurses deliver safe effective and informed care for patients undergoing diagnostic tests and procedures The book covers a broad range of laboratory and diagnostic tests and studies that are delivered to varied patient populations in varied settings Tests are grouped according to specimen and function test type e g blood urine stool cerebrospinal fluid etc Each test is described in detail with step by step guidance on correct procedure tips for accurate interpretation and instructions for patient preparation and aftercare Clinical Alerts highlight critical safety information

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A Clinical Guide to the Treatment of the Human Stress Response George S. Everly, Jr., Jeffrey M. Lating, 2019-03-05 This comprehensive update of the now classic text applies the most current findings across disciplines to the treatment of pathogenic human stress arousal New and revised chapters bring together the art and science of intervention based in up to date neuroscience starting with an innovative model tracing the stress to disease continuum throughout the systems of the human body The authors detail the spectrum of physiological and psychological treatments for the stress response including cognitive therapy neuromuscular relaxation breathing exercises nutritional interventions and pharmacotherapy They also assess the strengths and limitations of widely used measures of the stress response and consider the value of personality factors cultural considerations and resilience in stress mediation Included in the coverage The anatomy and physiology of the human stress response Advances in neuroscience implications for stress Crisis intervention and psychological first aid Neurophysiological rationale for the use of the relaxation response Physical exercise and the human stress response The pharmacological management of stress reactions Disaster Mental Health Planning Cultural Awareness and Stress The Fourth Edition of A Clinical Guide to the Treatment of Human Stress Response offers readers a dual perspective exceedingly useful in examining the origins of the stress response and in preventing and treating the response itself This rich integrative volume will join its predecessors in popularity among practitioners and students across disciplines and specialties

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11th Mediterranean Conference on Medical and Biological Engineering and Computing 2007 Tomaz Jarm, Peter Kramar, Anze Zupanic, 2007-11-12 Biomedical engineering brings together bright minds from diverse disciplines ranging from engineering physics and computer science to biology and medicine This book contains the proceedings of the 11th Mediterranean Conference on Medical and Biological Engineering and Computing MEDICON 2007 held in Ljubljana Slovenia June 2007 It features relevant up to date research in the area

The Publishers' Trade List Annual, 1880

Inherited Metabolic Disease in Adults Carla E. M. Hollak, Robin

Lachmann, 2016 As clinical management of inherited metabolic diseases (IMDs) has improved, more patients affected by these conditions are surviving into adulthood. This trend, coupled with the widespread recognition that IMDs can present differently and for the first time during adulthood, makes the need for a working knowledge of these diseases more important than ever. *Inherited Metabolic Disease in Adults* offers an authoritative clinical guide to the adult manifestations of these challenging and myriad conditions. These include both the classic pediatric onset conditions and a number of new diseases that can manifest at any age. It is the first book to give a clear and concise overview of how this group of conditions affects adult patients, a topic that will become a growing imperative for physicians across primary and specialized care. **Books in Print**, 1994

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