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Central European Journal of Experimental Biology, 2012, 1 (2):59-73 Scholars Research Library ISSN: 2278-7364

#### Sero-Prevalence of New castle Disease in Humans and Apparently Cross-Breed of Chickens in Nigeria

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#### ABSTRACTS

The prevalence of new castle disease in chicken man in some state of Nigeria was investigated by a harmaggletinating antibody survey. A total of 879 sera (479 chicken and 400 humans) were tested mean prevalence rate in man was 1.3% (12.6 in females and 14.8 in males) and varied from 8.3% to 60% in different age groups with median antibody time of 1/64. Occupationally, prevalence rate ranged from 10.5% in civil servant to 28.8% in traders, Among apparently healthy chickens, prevalence rate ranged from 22.3% in Afilyo to 29.4% in Ion. The geometric mean antibody time were 1.6 and 1.4 for Afilyo and Ion respectively. There is need to combat this disease through vaccination.

Key words: Serum, antigen HL ND, geometric mean, antibody.

#### INTRODUCTION

Newcastle disease virus is an avian paramysovirus that produces pneumoencephalitis in young chickens, turkeys and other domesticated and wild birds characterized by respiratory symptoms, neurological symptoms, enteritis, haemorrhagic lesions and often with high mortality. In human, it may produce inflammation of the conjunctiva. Infection in humans is an occupational disease limited to workers handling infected birds [1] and [2].

The contribution of the chicken industry to the national economy and the per-capita meat and egg consumption is very low [3]. Several factors have been suggested for the low production characteristics of free-range village chickens. The system is characterized by low input and low output, with minimal management interventions, feed supplementation, housing and disease control. This kind of production by itself is a limiting factor to sound economic and sustainable production. The low input is, however, a result of the high risk due to high mortalities experienced in village poultry. Diseases and especially the devastating Newcastle disease (ND) are perceived to be the main constraint [4] which discourages investors in this system. Ananth et al. [5] reported that circulating strains of Newcastle disease virus (NDV) are capable of causing 100% mortality in unprotected birds.

Many reports and studies [6] and [7] suggest a continuous presence of NDV in village poultry populations. Some of the risk factors that have been associated with the maintenance of NDV include: carrier chickens, village poultry

# **Sero Prevalence Of Newcastle Disease In Humans And**

Judd E. Hollander

#### **Sero Prevalence Of Newcastle Disease In Humans And:**

Zoonotic Diseases: Epidemiology, Multi-omics, and Host-pathogen interactions Lei Deng, Hong Yin, Kevin S. W. Tan ,Anastasios D. Tsaousis,2024-10-21 Zoonotic diseases are infections that can be transmitted between people and animals These infections are caused by microorganisms such as viruses bacteria parasites and fungi Patients with zoonotic infections can experience severe and life threatening illness whilst others remain asymptomatic For example animals can harbor germs asymptomatically for long periods with no apparent impact on their own health However some microbes carried by animals can result in human illness depending on the zoonotic disease Furthermore it is widely reported that almost 60% of human diseases are zoonotic and at least 75% of the pathogens that cause diseases in humans are of zoonotic origin and Human Health Impacts of Contaminated Food and Environments Ming Hung Wong, 2025-07-16 This book discusses linkages between the natural and disturbed chemical composition of the earth's surface and ecological and human health It reviews the environmental geochemical cycles of natural elements and persistent toxic substances PTS in the environment highlighting the degradation of soil and water resources due to human activities such as extraction and usage of minerals There is an attempt to provide evidence concerning the health effects of consuming contaminated food due to frequent consumption of mercury laden fish Lastly sources fates and ecological effects of various PTS are presented including microplastics and associated chemicals Details linkages between the natural and disturbed chemical composition of the earth's surface and environmental and human health focusing on food contamination Discusses emerging pollutants with potential widespread hazardous effects such as bisphenol A and phthalates Reviews safe food production and quality as well as the management regulation and policies concerning toxic chemicals Contains cutting edge knowledge on safe food production and remediating technologies Describes how geochemical cycling results in food contamination Influenza and Newcastle Disease Illaria Capua, Dennis J. Alexander, 2009-06-24 Avian Influenza AI and Newcastle Disease ND are two devastating diseases of poultry which cause losses to the poultry industry and influence the liveability of rural communities worldwide Following the H5N1 epidemic they appear to be endemic at least in Asia Eastern Europe The Middle East and Africa Particularly in case of AI outbreaks it is essential that infection is diagnosed promptly and that isolates are made available to the international scientific community Currently several organisations including OIE FAO and the EC have organised training courses in affected areas However often these courses do not cover all aspects of AI ND diagnosis but only certain aspects This results in fragmented areas of knowledge and in the application of different diagnostic protocols in different parts of the world The objective of this book is to provide a comprehensive approach to AI diagnosis ranging from the clinical elements that should trigger a suspicion in the field to the post mortem technique collection of samples processing shipment of specimens virological serological and molecular diagnosis and guidelines for notification Tropentag 2022 - International Research on Food Security, Natural Resource Management and Rural Development Eric

Tielkes, 2022-09-09 Tropentag is the largest interdisciplinary conference in Europe focused on developmentoriented research in the fields of tropical and subtropical agriculture food security natural resource management and rural development Tropentag takes place annually even though the past two years were particularly challenging while the conference had to be organised as an online only event One of the lessons that we learnt from the virtual conferences is that yes it is possible to organise it that way but that it is much better to meet and talk in person We are thus very happy that this year two years after what was initially planned we are able to organise the Tropentag 2022 conference at the campus of the Czech University of Life Sciences Prague Czech Republic and thrilled that we will again meet all face to face during the 14 16 September venue However some of you due to various reasons who could not come to Prague you can still participate at this year Tropentag as all plenary and oral scientific sessions are streamed via the Whova platform and we also organise several online poster sessions **Cumulated Index Medicus**, 1999 Animal Disease Occurrence ,1988 *Infectious Diseases* Sherwood L. Gorbach, John G. Bartlett, Neil R. Blacklow, 2004 The Third Edition of this definitive reference provides comprehensive guidelines on the diagnosis treatment and prevention of every infectious disease seen in current clinical practice More than 300 world class practitioners detail the full range of clinical infections microorganisms diagnostic tests and antimicrobial therapies Coverage includes chapters on surgical infections written by preeminent surgeons and up to the minute information on HIV infection A comprehensive antimicrobial drugs section includes tables that provide at a glance prescribing information New Third Edition chapters cover bioterrorism hospital infections emerging infections human herpesvirus 8 West Nile virus food safety linezolid and quinupristin dalfopristin molecular diagnostics and diagnostic significance of nonspecific laboratory abnormalities **Exposure** Dieter Stürchler, 2006 Reference source for clinicians public health professionals epidemiologists and clinical microbiologists working to identify infectious disease agents From prions to parasites this unique volume offers comprehensive coverage of infections and infectious agents and provides a good starting point for compiling a thorough patient exposure history and initiating the appropriate laboratory testing Ārogya ,1982 Index Medicus, 2004 Encyclopedia of Virology, 2021-02-24 Encyclopedia of Virology Fourth Edition Five Volume Set builds on the solid foundation laid by the previous editions expanding its reach with new and timely topics In five volumes the work provides comprehensive coverage of the whole virosphere making this a unique resource Content explores viruses present in the environment and the pathogenic viruses of humans animals plants and microorganisms Key areas and concepts concerning virus classification structure epidemiology pathogenesis diagnosis treatment and prevention are discussed guiding the reader through chapters that are presented at an accessible level and include further readings for those needing more specific information More than ever now with the Covid19 pandemic we are seeing the huge impact viruses have on our life and society This encyclopedia is a must have resource for scientists and practitioners and a great source of information for the wider public Offers students and researchers a one stop shop for information on virology not

easily available elsewhere Fills a critical gap of information in a field that has seen significant progress in recent years Authored and edited by recognized experts in the field with a range of different expertise thus ensuring a high quality Newcastle Disease Virus; an Evolving Pathogen Robert Paul Hanson, 1964 **Infectious Disease Ecology of** Wild Birds Jennifer C. Owen, Dana M. Hawley, Kathryn P. Huyvaert, 2021 This accessible textbook focuses on the dynamics of infectious diseases for wild avian hosts across every level of ecological hierarchy Although the topics and principles discussed in this book relate to birds they have a far wider relevance and can also be applied to non avian wildlife host The Onderstepoort Journal of Veterinary Research ,2008 pathogen systems Pests and vector-borne diseases in the livestock industry Claire Garros, Jérémy Bouyer, Willem Takken, Renate C. Smallegange, 2023-08-07 How to control economically important vector borne diseases What are the best strategies to protect livestock from vector borne diseases in a changing environment How to evaluate and assess the acceptability cost efficiency and cost benefit of the control and surveillance methods The information in this book will help to answer these questions It aims at presenting the latest information on vector borne diseases affecting livestock worldwide from state of the art interventions to the assessment of the impact of these control measures This book is a valuable tool for entomologists and all those involved in pest and vector Ensuring Animal Health and Other Services for Efficient and Inclusive Livestock Value Chains in control **LMICs** Isabelle Baltenweck, Bernard Bett, Simeon Kaitibie, 2022-01-28 Fenner's Veterinary Virology N. James Maclachlan, Edward J Dubovi, 2010-11-26 Fenner's Veterinary Virology Fourth Edition is the long awaited new edition of Veterinary Virology 3e which was published in 1999 Fully revised and updated by the new author team part I presents the fundamental principles of virology related to animal infection and disease and part II addresses the clinical features pathogenesis diagnosis epidemiology and prevention of individual diseases New to this Edition New author team one main author to ensure that the book reads like an authored book but with the benefit of using experts to contribute to specific topics Text has been refocused part I has been condensed and where appropriate incorporated into part II to make it more user friendly The number of figures have been increased and are now in full color Fully revised and updated to include the latest information in the field of veterinary virology Beautifully illustrated color figures throughout Organized and current information provided by an expert team of authors Journal of Virology ,2005 **Diseases of Poultry** J.R. Glisson, L.R. McDougald, L.K. Nolan, D.L. Suarez, V.L. Nair, 2013-07-16 Diseases of Poultry is the most comprehensive reference for all aspects of poultry health and diseases including pathogenesis diagnostics epidemiology and control methods Published in partnership with the American Association of Avian Pathologists the Thirteenth Edition remains the international definitive reference adding newer diagnostic methods and a new chapter on the emerging importance of zoonotic infections for poultry pathogens Other updates include new high quality photographs additional discussion of conceptual operational biosecurity and disease control in organic production systems and a greater emphasis throughout on the differences in disease incidence

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