



Archives of Veterinary and Animal Sciences

Copyright © All rights are reserved by Wilson IB Onuigbo.

Historical Highlights on the Veterinary Varieties

Wilson IB Onuigbo*

Medical Foundation & Clinic, 8 Nsukka Lane, Enugu 4001001, Nigeria

*Corresponding Author: Wilson IB Onuigbo, Medical Foundation & Clinic, 8 Nsukka Lane, Enugu 4001001, Nigeria

Received: December 21, 2018; Published: January 03, 2019

Abstract

History is an important field with veritable veterinary elements. Therefore, this paper presents the historical aspects within its boundaries and related fields. It is deemed practical that the historical approach can highlight matters. In this context, the materials in my mini library are deemed to suffice while any previous publications will be added, all being in chronological order.

Keywords: History; Veterinary; Varieties, Highlights; Present materials; Chronology

Introduction

Historical highlights are presented with the interesting materials in my possession in the veterinary field and related matters. In summary the chronology approach is deemed to be sufficient as follows:

Historical texts

- 1664 Robert Hooke "demonstrated that a dog could be kept alive with an open chest by blowing air through a bellows inserted into the trachea. The heart continued its normal beat. When he stopped pumping the bellows the heart, after a while, began what Hooke called "convulsive motions". When the pumping of the bellows was renewed the heart resumed its normal beat. Thus he showed that the continued movement of the heart was dependent on an exchange of the air in the lungs, that there was this link between the respiratory and circulatory systems".
- 2. 1720 Deidier transmitted plague by injecting bile from plague corpses into dogs; he showed that the bile of dogs dying of plague produced plague in other dogs, and he showed that the bike of persons dying of other fevers did not produce plague.

- 3. 1726 Daniel Furner described treatments, such as using the blood from the tail of a black cat treat shingles.
- 4. 1753 John Haunter investigated the organs and mechanism of hearing in fishes, the phenomenon of hibernation in animals that led to the observation of the arrest of digestive processes in the dormant state, and the effects of hypothermus.
- 5. 1775 Edward Jenner studied cuckoos, hedgehogs, eels, hares, and many other animals.
- 6. 1798 Astley Cooper carried out several experiments of tying of the thoracic duct in dogs and confided that he "may mention that my friend Mr. Coleman, professor at the Veterinary college, has feveral times found blood in the thoracic duct of horses which had died without any rupture of the blood vessels, which shows a direct absorption of blood under certain circumstances.
- 1813 Langenbeck injected into the veins of a dog, some pulp taken from a cancer which had just been removed from a living body. At the end of some weeks, the dog began to waste rapidly. It was then killed, and several cancerous tumors were found in its lungs.

Citation: Wilson IB Onuigbo. (2019). Historical Highlights on the Veterinary Varieties. Archives of Veterinary and Animal Sciences 1(1).

- 8. 1851 Dr. Horner removed from a female a scirrhus mamma, a portion of which, at his request, he took home for microscopic examination. In structure it proved to be composed of fibrous tissue and nucleated, elongated, or caudated cells. After the examination, about four hours subsequent to the removal of the tumor from the woman, Dr. L. inserted four pieces of the tumor, each half an inch long by one-eight of an inch broad and thick, beneath the integument of the back of a large frog. Three of the fragments were pushed forward to the vicinity of the ear. In a few days succeeding the operation, the incision of the skin perfectly cicatrized.
- 9. 1855- Mr. Leblane stated that, in all cases in which he had been able, after an interval of from one to six years, to examine animals from whom he had removed large, old, softened, and ulcerated cancers, there had been a return of the disease.
- 10. 1871 Theodor Billrorth with his assistant turned to experiments on dogs. His success in dogs suggested its potential in the treatment of laryngeal cancer in humans.
- 11. 1876 Gorge Beatson obtained the licence for removing the ovaries from sucking rabbits. The experimental results were such that he applied the principals to the ablation of the ovaries of breast cancer patients, cure being obtained in some cases.
- 1876 Robert Koch investigated a disease prevalent in the sheep-rearing districts. On 22 April, 1876, and for the two following days, he demonstrated his findings before Cohn, Cohnheim and Weigert.
- 13. 1877 Eduard Albert experimented on the dogs: The ischiadic Nerve was bilaterally exposed, a section was removed from each side the left one was implanted to the right and vice versa. The grafts took.
- 14. 1880 Alexander Ogston was disturbed by hospital deaths due to infection. He inoculated eggs under Listerian precautions. The pure cultures were then injected into guinea pigs and mices. As it was stated, "The miracle that Lister started empirically, Ogston finished scientifically".
- 15. 1882 Sigmund Freud published "On the structure of the nerve fibres and Nerve cell of the River Cray fish", examining the tissues microscopically.
- 16. 1884 Pasteur reported success in immunizing dogs against rabies using a series of subcutaneous inoculations containing neural tissue of gradually increasing virulence derived from their passage in monkeys and rabbits.

- 17. 1885 Senn opened the superior saggical sinus of horses and found that air would enter with a "lapping" sound whenever the head was held elevated.
- 18. 1889 Wehr took portions of tumors of the prepuce of the dogs or of the mucous membrane of the vestibula and inoculated them into the subcutaneous connective tissue of twenty six other dogs. Twenty four nodules were obtained, five of which were examined microscopically, and in one case the tumors grew progressively until the death of the animal, which was brought about by rupture of the bladder as the result of the compression of the urethra by the tumor mass. The whole pelvic cavity in this instance was infiltrated, and metastases were found in other parts of the body.
- 1889 Arthur Hanau transplanted spontaneous carcinoma of the vulva of a rat to the testes of two old male rats. He did not, however, fully realize the great value of his discovery for the experimental study of animal tumors.
- 1898 The Curies soon after their discovery of radium performed numerous experiments on plants and lower animals later extending it to personal skin operations.

Discussion

The above examples portray the maltreatment of the animals during the experiments performed on them. Perhaps, this should be balanced with the historical account of them that I personally published earlier [21]. Incidentally, I used the peculiar "Tandem Style" whereby a word that ends a paragraph automatically begins the next one! In effect, this simulates how riders of that bicycle must necessarily cooperate. In this context, I did personally carry out animal experiment in 1963 [22]. It confirmed what I had concluded regarding the tendency of cancer cells to spread ipsilalaterally in the human body.

Moreover, I was able to outline various models based on the human body itself. This was done in order to bypass the animal experiments. They were published variously [23–33].

Conclusion

Each of the above personally published models was in tune with the very view of Nicholson [34]. In his own words, "Pathologists can dispense largely with animal experiments" I am really persuaded that Nature has provided giant opportunities in the above recorded phenomena. Indeed, the keys to unlock them ought to be fashioned. Thereafter, targeted therapy of cancer would materialize sooner than later [35,35].

Citation: Wilson IB Onuigbo. (2019). Historical Highlights on the Veterinary Varieties. Archives of Veterinary and Animal Sciences 1(1).

References

- Wright St. Clair RE. (1985). The development of resuscitation. The New Zealand Medical Journal 98: 339-341.
- Williamson R. (1958). The plague of Marseilles and the experiments of Professor Anton Deidier on its transmission. Medical History 2(4): 237–252.
- Bloch H. (1986). John Hunter, Esq, FRCS (1728-1793). The American Journal of Surgery 151: 640-642.
- Lyell A. (1986). Daniel Turner, and the first controlled therapeutic trial in dermatology. Clinical and Experimental Dermatology 11(2): 191-194.
- Jenner E. The origin of the vaccine inoculation. London: Shury, 1801, pp1-8.
- Cooper A. Medical Records and Researches. London: T-Cox, 1798, 102.
- Budd G. On diseases of the liver. London: Churchill, 1845, p 308.
- Robert M. (1855). Discussion on cancer in the French Academy of Medicine: Merits of the microscope as compared with clinical examination. Associated Medical Journals p 103.
- Absolon KB. (1977). Theodor Billroth in Vienna, 1867-1880. The Australian and New Zealand Journal of Surgery 47: 837-843.
- Dr. Horner. Surgical Pathology. Academy of Nature science of Philadelphia, 1851 5: p201.
- 11. Beatson GT. (1896). The treatment of Inoperable cases of Carcinoma of the Mamma: suggestions for a new method of treatment, with illustrative cases. The Lancet 148(3802). 102-107.
- Sakula A. (1979). Robert Koch (1843-1910): Founder of the Science of Bacteriology and Discoverer of the Tubercle Bacillus. British Journal of Diseases of the Chest 73: 389-394.
- Valnicek V. and Wilflingseder P. (1982). Eduard Albert (1841-1900) and the First Nerve Graft. Chirurgia plastic 6: 227-230.
- Lyell A. (1977). Alexander Ogston (1844-1929) Staphylococci. Scottish Medical Journal 22: 277-278.
- 15. Triarhou LC. and del Cerro M. (1985). Freud's Contribution to Neuroanatomy. The Archive of Neurology 42(3): 282-7.
- Hoenig LJ. (1985). Pasteur and Rabies: A Centennial Retrospective. Medical Times 113. 35-48.
- Bedford RF. (1983). Venous Air Embolism: A Historical Perspective. Seminars in Anesthesia 11(3). 169-176.
- Sailer J. (1900). A critical summary of the literature on the inoculability of carcinoma. American journal of medical science 120(2). 190-202.

- 19. Hanau A. (1851). Successful transplanting of cancer from one animal to another. Proceedings of the academy of natural sciences of Philadephia vol. v, No. IX.
- 20. Del Regato JA. (1976). Marie Sklodowska Curie. Radiation Oncology, Biology, Physics vol. I, pp. 345-353.
- Onuigbo WIB. (1963). A mono-block formalin-fixation method for investigating cancer metastasis. Zeitschrift fur Krebsforschung 65(3). 209-210.
- 22. Onuigbo WIB. (1963). A modified theory of retrograde lymphatic metastasis in lung cancer. British Journal of Diseases of the Chest 57: 120-125.
- 23. Onuigbo WIB. (1963). An index of the fate of the circulating cancer cells. Lancet 2(7312): 828-31.
- 24. Onuigbo WIB. (1967). The carriage of cancer cells by the thoracic duct. British Journal of Cancer 21(3): 496–500.
- 25. Onuigbo WIB. (1973). Human model for comparing localization factors in metastasis. Archives of Pathology 95: 260-261.
- Onuigbo WIB. (1974). Organ selectivity in human cancer metastasis. A review. Oncology 30(4): 294-303.
- Onuigbo WIB. (1975). Human model for studying seed-soil factors in blood-borne metastasis. Archives of Pathology 99(6): 342-3.
- Onuigbo WIB. (1976). Lung cancer model for studying multi-step metastasis. British Journal of Diseases of the Chest 70(4):260-2.
- 29. Onuigbo WIB. (1979). Selectivity and rejectivity in cancer metastasis. Medical Hypotheses 5(1): 185-91.
- Onuigbo WIB. (2000). Ten anomalous patterns of lung cancer spread with single explanatory hypothesis. Medical Hypotheses 55(3): 227-31.
- Onuigbo WIB. (2009). Historical horizons of drug dispensing in cancer cases with hopeful hypothesis on cancer cure. Journal of College of Medicine 14:1-5.
- Onuigbo WIB. (2010). The popliteal lymph node group as a naturally positioned model for research on lung cancer metastasis. Journal of Cancer Research and Experimental Oncology 2(3). 27-28.
- Onuigbo WIB. (2014). The scientific significance of the role of the thoracic duct in cancer cell carriage: A review. Single Cell Biology 3.1
- Onuigbo WIB. (2016). Hypothesis: Nature has provided the two subsets required for translational lung cancer research. International Journal of Cell Science & Molecular Biology 1(1): IJCSMB.MS.ID.555555.

Citation: Wilson IB Onuigbo. (2019). Historical Highlights on the Veterinary Varieties. Archives of Veterinary and Animal Sciences 1(1).

35. Onuigbo WIB. (2017). Necrotizing of cancer cells is possible through drug designing and development. Novel Approaches in Drug Designing & Development 1(4): NAPDD.MS.ID.555566.

Benefits of Publishing with EScientific Publishers:

- Swift Peer Review
- Freely accessible online immediately upon publication
- Global archiving of articles
- Authors Retain Copyrights
- Visibility through different online platforms

Submit your Paper at:

https://escientificpublishers.com/submission