



Clarified Butter as Remedies to Fowl Pox



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Introduction

The project research about “ the use of clarified butter as remedies to fleas and fowl pox” was conducted at Itilima district in Ndoleleji village which is among of the four villages of Ndoleleleji ward these villages are Ndoleleleji, Nangale, mwanyitanga and Mwaogama. The project research analysis was to help people around this area though the ward was taken as case study but this research it might help poultry farmers all over the country as it is cheap, efficient and effective. Most of the poultry farmers in these areas have been facing this problem for so long and their chicken have been perishing with this viral infectious disease that arouse our curiosity in order to find the solution to this problem then the research project was conducted to help the local farmers to achieve their goals of poultry farming that will lead them to raise both their living standard and income at individual level and family level as well.

Fowl pox is a slow spreading viral disease of chicken characterized by lesions on the un-feathered skin areas or mucous membrane of the oral cavity, larynx or trachea of the chicken. .

Method

When observing the causative agents to chicken (fleas) the following experimentations, observations and conclusions were done;-

We started by preparing two chicken cages, the first cage was labeled A and the second cage was labeled B;

-In cage A five chicken which had no fleas were reserved and in cage B five chicken with fleas were reserved as well, chicken in both cages were supplied with the same services but with the same type of food varieties, water, cleanliness etc

-After 14 days chicken in cage A that contained chicken with no fleas they remained normal while in cage B, the cage that had chicken with fleas they developed fowl pox in their un-feathered skin, eyes, mouth and in the throat from this experimentation conclusion done was that fleas are the agents of viral disease (fowl pox).

Procedure

According to what was observed concerning with the spread of this viral disease is due to the existence of the micro organism known as fleas who stay at the host [chicken] on un-feathered areas of the chicken usually around the head, also these fleas tend to exist on dirty wet areas especially on areas accumulated with chicken feces and they do reproduce and multiply themselves from there, Fleas are ecto-parasite, that is when they are produced they do find the nearby and appropriate host which is the chicken so as to maintain their life and continuity of their existence , so these microorganisms are the ones which cause viral disease known as fowl pox through lowering the immunity of the chicken. From the observation it was noted that the chicken with no fleas were not affected by the virus since they had strong immunity as we all know that viruses tend to lower the immunity of an organism to which they belong. These micro organisms [fleas] are blood sucker thus they suck blood of their host [chicken], since blood contains white blood cells and other blood components that prevent the organism against infections, when the blood of the host is sucked to the maximum, automatically the immunity of the host is lowered and the host become easily invaded by pathogens including the fowls pox

Results

After conducting several tests, the results were obtained as per targeted objective or goal of the research itself.

The objectives was to solve the problem of fleas to chickens that bring viral infectious disease such as fowl pox, from those experiments clarified butter seems to be effective and efficient in solving the spread of viral diseases that is fowl pox caused by fleas.

The main objective of conducting this research was to help the small poultry farmers to be able to prevent and eradicate or rather to reduce the spread of this viral infectious disease caused by fleas.

The result of the said research is very significant to small poultry farms is the use of clarified butter because is easily available since most of Tanzanians involves in cattle keeping, it is very cheap and sometimes can be obtained for free of charge to the individuals who also involve in cattle keeping.

Clarified butter they are poor heat conductor (acts as insulator); being poor heat conductor as it was applied during experimentation (during try and error) some of the chicken that has fleas they become free from fleas meaning that clarified butter killed or attacked the fleas, basing on this property of poor heat conductivity, when clarified butter was applied on the un-feathered skin containing fleas they tend to prevent heat energy produced by the host (chicken) to lost into space (atmosphere) thus the heat produced just remained and accumulated on the surface of the skin of the chicken where the butter is applied hence it exert very high temperature that the fleas cannot withstand and the fleas they die off, because abnormal increase in temperature on the surface of chicken containing fleas at which the butter was applied result to abnormal increase in temperature inside the body of the fleas and tend to disorganize the body activities of fleas like respiration, transportation and excretion etc, hence result to change in structure and form of body components like enzymes, proteins and hormones of fleas a phenomena known as denaturation of protein and enzyme materials hence the death of the fleas.

Conclusions

It should be noted that prevention is better than cure, as stated earlier that accumulation of chicken feces and other rubbishes brings the existence of fleas, so small poultry farmers should ensure cleanliness of the chicken cages to prevent the emergence of fleas in the chicken cages, but accidentally when fleas come into existence, poultry farmers they can apply this cheapest, researched and proved project to destroy fleas which are the vector for fowl pox viruses that are threatening and very dangerous to the life of chickens the fact that cause farmers to incur unrecovered loses the situation that make some poultry farmers to become discouraged to involve in this cheapest and most profitable project of rearing chickens.

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Last but not least great thanks be to Mr Nkinda Dotto a farmer who gave us clarified butter for free of charge all to make us fulfill our objective and make our project successful



Pictures of chickens with fleas and those without fleas into two separate cages A and B



Chicken with fleas in different cages treated with different organic compounds i.e petroleum jelly and kerosene

