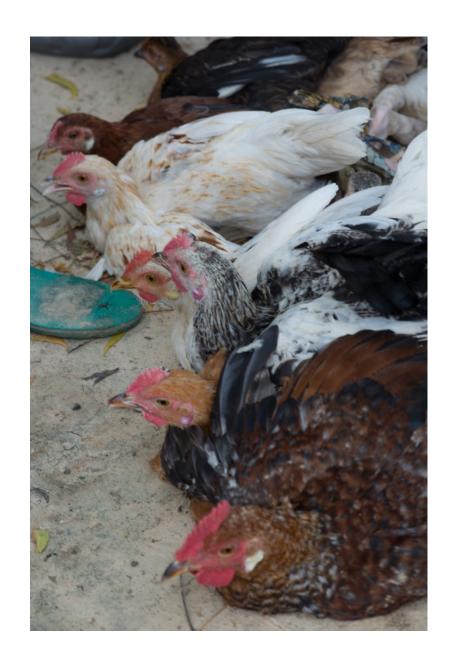


by Dr Chioma Tony-Dike

Propcom Maikarfi





Presentation outline

- i. Background
- ii. What is Newcastle disease(ND)?
- iii. Symptoms of ND
- iv. Gaps in ND Control in backyard chicken
- v. Scope of PM's work on ND control in rural chickens
- vi. PM Strategy
- vii. Conclusion



Background

- Nigeria has a poultry population of 150 million (FAO, 2008) and the local chicken variety contributes to over 80%(113 Million) of the population.
- Most of the local chickens are reared by rural households. They are kept for subsistence as well as for income generation.
- 60% of local chickens are owned by women(PM research 2015)
- Average number of 22 chickens/rural household.





What is Newcastle disease?

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 Newcastle disease (ND) is a highly contagious, severe viral disease found worldwide that affects birds including domestic poultry.

- ND is endemic in all parts of Nigeria and is more common during the harmattan season (October –March) with the virus remaining dormant most times of the year.
- ND outbreaks commonly have mortality up to 100% (Alders, 2001).
- ND is transmitted most often by direct contact with faeces and respiratory discharge of diseases or carrier birds
- It can also be by contaminated food, water, equipment, and human clothing.

Symptoms of ND

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- Clinical signs include:
 - respiratory signs gasping, coughing, sneezing and rales
 - nervous signs tremors, paralyzed wings and legs, twisted necks, circling, spasms, and paralysis;
 - digestive signs diarrhoea;
 - ➤ a partial or complete drop in egg production. Eggs may be abnormal in color, shape, or surface, and have watery albumen.

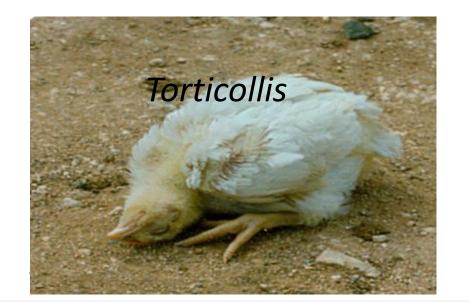
Symptoms of ND





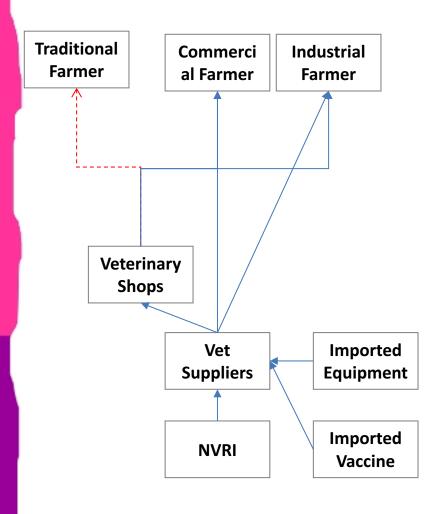






Gaps in ND control in backyard/rural poultry





Backyard poultry lacks:

- > Vet service providers: If Dr. Atiri wont do it, who will?
- Rural distribution network to deliver vet products
- ➤ Tailored products: Lasota x1000...?
- > Information in real time
- Low awareness on ND control

Scope of PM's work on ND control in rural chickens



- Partner with suppliers/distributors to make available suitable ND vaccines and other veterinary products
- Support partners to develop/leverage on suitable grass root distribution channels to deliver affordable vaccines for ND along with other veterinary products
- Work with the relevant stakeholders to facilitate awareness and demand for veterinary services amongst smallholders, instituting 'for-profit' veterinary service delivery as a norm in rural communities
- Work with the regulatory agencies to create an enabling environment for the acquisition of relevant skills needed to deliver quality community-based animal health extension service

PM Strategy

Improving capacity
Efficient linkage to local suppliers



Restructuring outstations to become livestock information centres, surveillance units and business outfits for livestock products Supply chain/Efficient distribution model/Capacity building

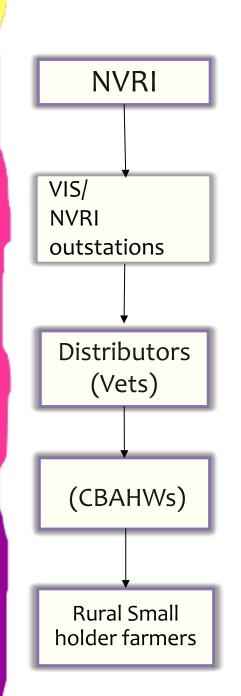
Facilitates Training Program/Cost Recovery Sales Strategy for direct recruitment of VBI/CBAHW Introduction of Vaccination calendar to the trained CBAHW/VBI Improving capacity to ensure quality service delivery

Trained and monitored by a Vet.

Effective grassroot awareness programs and campaigns on ND control through vaccination

Basic Livestock Management practices

NVRI-National Veterinary Research Institute, Vom VIS-Veterinary Input suppliers Village based Inoculators CBAHWS - Community based Animal Health workers



PM strategy



Vaccine producer (NVRI, Import) – Revenue: N100

Vet suppliers- Revenue: N200

Distributors – Revenue: N300

VBI/CBAHW- Revenue: N700

FARMERS – Revenue: N600/bird

The Rural poultry NCD Vaccine Market



- Number of (50 doses) vials needed: 113M/45 = 2.5M vials
- Two doses/chicken 2.5M*2 = 5M vials
- Profit/vial(Vet Supplier/Distributor) = N100
- Thus rural Poultry NCD vaccine Market N500M

• You can also sell anthelmintics, dewormers, antibiotics and multivitamins.

Conclusion



- Small start-up costs for the VBI (N1,250 N2,500).
- Efficiency in conducting community mobilization by the VBIs (use church, existing social structures in communities)
- Repeat business for VBI with the introduction of a vaccination schedule to capture new chicks born and old chickens
- Cheap training costs for the distributor/supplier/NGO because training is localized and community-based, reduced risk for the trainers using the 'cost-recovery sales strategy'.
- Affordable out-of-pocket costs to the farmer (between N20-30 per bird).



Vaccination of chicken intra occularly



Local chickens on display at the market.



A VBI receiving payment for vaccination



A happy VBI displaying used vaccine vials.



