Poultry Vaccination against Newcastle Diseases

Low-cost vaccination for poultry

The "Universal Vaccination against Newcastle Diseases" is a method for widespread vaccination in poultry. It includes thermostable vaccines, efficient logistics, easy application, and vaccinator training.

ND I-2 vaccine is available in small vials

✓ This technology is TAAT1 validated.

7·7 Scaling readiness: idea maturity 7/9; level of use 7/9

Gender assessment 3

Climate impact 6

Problem

- **High Mortality & Uptake**: Newcastle disease causes high mortality in poultry, with limited vaccine uptake.
- **Accessibility & Knowledge**: Vaccine access and disease knowledge are challenges.
- **Vaccination Issues**: Inconsistent application and poor systems hinder effective vaccination.

Solution

- **Thermostable and Broad Protection**: The ND I-2 vaccine is developed from a temperature-tolerant strain of the virus, enabling it to withstand varying temperatures and offer protection against a wide range of Newcastle Disease Virus strains.
- **Strong Immune Response and Ease of Use**: The vaccine triggers a robust immune response in poultry and is user-friendly with straightforward administration and storage procedures.
- **Safety and Long-lasting Protection**: The vaccine is widely accepted due to its proven effectiveness and safety. It offers enduring protection, reducing the need for frequent re-vaccination.

Key points to design your project

The technology boosts women's empowerment, cuts carbon emissions, and aids SDGs 1, 2, and 5 by enhancing poultry health and income, and minimizing cold chain needs.

Adopting the "Universal Vaccination against Newcastle Diseases" technology involves:

1. **Stakeholder Engagement**: Engage all relevant parties.
2. **Awareness Raising**: Educate decision makers on family poultry benefits.
3. **Vaccine Selection**: Opt for a suitable vaccine like ND I-2.
4. **Training and Extension**: Plan and organize essential training covering vaccine characteristics, campaign organization, and progress monitoring.
5. **Cost-Recovery System**: Cover production, distribution, and administration costs, possibly through consumer payments or government subsidies. Focus on cost minimization if the vaccine is free.
6. **Vaccination Implementation**: Vaccinate all chickens simultaneously.
7. **Monitoring and Evaluation**: Track program progress and impact.

These activities should be systematically planned and executed.

0.02 USD

A dose of the ND I-2 vaccine, is inexpensive to administer

2.5 USD

per round of vaccination for 20 chickens

250 USD

local vaccination campaign at the village level

IP

Open source / open access

ILRI
INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE

International Livestock Research Institute (ILRI)
Adeniyi Adediran

Technology from

ProPAS

Commodities

Poultry

Sustainable Development Goals

8 DECENT WORK AND ECONOMIC GROWTH

Categories

Production, Inputs, Animal healthcare

Best used with

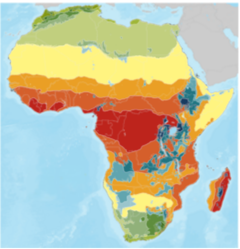
- Biosecurity for Disease Prevention ›

Tested/adopted in

🟩 Tested & adopted
🟩 Adopted
🟨 Tested

Where it can be used

This technology can be used in the colored agro-ecological zones.



Target groups

Farmers