

Universal 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 vaccinators training.



ND I-2 vaccine is available in small vials



International Livestock Research Institute (ILRI)
Adeniyi Adediran

✓ This technology is **TAAT1 validated**.

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

Gender assessment 3

Climate impact 6

Technology originally documented by

ProPAS

Commodities

Poultry

Sustainable Development Goals



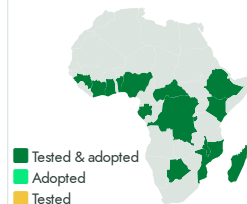
Categories

Production, Practices,
Animal waste management

Best used with

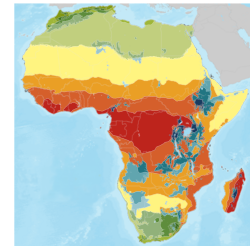
• [Biosecurity for Disease Prevention](#)

Tested/adopted in



Where it can be used

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



Target groups

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 Vaccines:** ND I-2 vaccine, developed from a temperature-tolerant virus strain, is resilient and effective.
- **Improved Accessibility & Knowledge:** The technology improves vaccine accessibility and enhances vaccinators knowledge.
- **Efficient Vaccination Systems:** It promotes simplified, consistent vaccination and improves overall poultry health.

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



Open source / open access



Universal Vaccination against Newcastle Diseases

<https://e-catalogs.taatafrica.org/gov/technologies/universal-vaccination-against-newcastle-diseases>

Last updated on 22 May 2024, printed on 22 May 2024

Enquiries techs@taatafrica.org