

Vaccination Handbook

OFFLU ANNUAL TECHNICAL MEETING

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Royal Holloway, University of London, UK



Rationale

- Vaccination widely used as a control tool for avian diseases / animal diseases
- Request/need for practical guidelines on how to design and implement a vaccination strategy
- **Needs to be adapted to local context!**

Context

- FAO publication committee has agreed on the publication of such manual (FAO funding some consultation time for writing)
- OFFLU Steering Committee has agreed on possible endorsement of the manual
- IFAH has agreed to collaborate- fields of collaboration to be determined (visual material, translation, proofreading, spread, etc)

Objectives of the presentation

- To validate the principle of developpement of such a manual
- To validate the objectives and Table of content
- To agree on a method/calendar for completion of the manual

Acknowledgements

- Astrid Tripodi
- Gwenaelle Dauphin
- Les Sims
- David Swayne

Objectives of the Handbook

- This manual is to be a **hands-on and practical guide** for planning and implementation poultry and livestock vaccination (campaigns) at national and/or local level.
- It should contain **targeted modules and tools** such as checklists, templates, and visual tools such as pictures and short videos.

Targeted users

- **Central veterinary services** for the design, planning, monitoring and evaluation of national vaccination campaigns
- **Local/field veterinary services** for the planning and implementation of vaccination
- **Veterinary services and private sector** for vaccination training purposes and sustainability of implementation

Table of Content (I)

Module I - Planning a vaccination campaign

Target: National veterinary services; decentralized vet services as applicable

- Designing the vaccination strategy
 - **Why?** Precise objectives
 - **Why not** – when should vaccination be a private matter
 - **How?** (Prevention/Ring vaccination/mass vaccination) Vaccination as a condition of sale or movement?
 - **Where?** - Nationwide/Areas/Targeted/different enterprises and different costs for different players
 - **For how long?** review points and end points (for government sponsored campaigns)
 - **Who?** - public or public/private; compulsory or on voluntary basis? Who does the vaccination - what are the incentives to be involved (farmers and vaccinators)
 - **What?** What animals/poultry will be vaccinated (based on why)
 - **Technical and logistical considerations:** Vaccine strain/type, boosters; vaccination coverage, vaccine distributions
 - **How funded?** - financial resources (public or shared public/private);
 - **Monitoring effectiveness** (not just number of animals vaccinated but effect of vaccination on the prevalence/incidence of disease in question, how to assess efficacy? How to maintain compliance?

Table of Content (2)

Module I - Planning a vaccination campaign (cont.)

Target: National veterinary services; decentralized vet services as applicable

- **Monitoring and surveillance**
 - Vaccination coverage
 - Scope of surveillance
 - Data collection, entry and analysis
 - Costs and human resources
- **Which technical targets to achieve? definition of notions such as herd immunity threshold, vaccination coverage, population immunity etc...and how to evaluate the needs**
- **Evaluation of the strategy (how to plan an evaluation study, checklists)**
 - Vaccine efficacy/field immunogenicity
 - Vaccination implementation
 - Vaccination effectiveness

Table of Content (3)

Module 2 – Logistics of vaccination

Target: Decentralised vet services, field services

- Storage and transport of vaccines
- Take back one step and understand views of farmers and others on vaccination
 - *Refer to annex* - Checklist awareness and farmer buy-in (collaboration with local leaders, loudspeakers etc; time table for vaccination, partnership with the private sector for awareness ; information about withdrawal time: vaccine free of charge or fees?; etc)
- Training of vaccinators (refer to annex - audiovisual tools): Biosecurity issues (changing of needles, boots etc)
- Vaccination set up: vaccination points; farm-to farm; sharing of vaccine bottles between neighbors?
- Monitoring of vaccine delivery (ref to annex: templates/examples for monitoring lists of vaccination)
- Payment of allowances for vaccinators

Table of Content (4)

Module 3 – Vaccination carried out by the private sector

- Private vaccination – but public good (monitoring/regulation by public vet services)
- Regulate vaccination at hatchery level/nurseries
- Importance of targeting vaccination to the known problems;
 - *Ref to annex: examples of vaccination protocols by species and production type,*

Annex: Tools

- Checklists material (incl checklist cold chain or separately)
- Syringes and Needle types
- Checklist human resources
- Checklist awareness
- Examples of vaccination protocols with typical strains used in developing countries by species and production type
- Templates for vaccination delivery lists for monitoring and calculating vaccination coverage; cost-effectiveness
- Training support: videos and pictures (handling of animals, set up of vaccination areas in a farm; different vaccination techniques, handling of vaccines, importance of dilutions; use of syringes etc)

Methodology

- Limited number of primary authors
(Astrid Tripodi, Marisa Peyre, Les Sims, David Swayne, **others?**)
- At least 2 authors per module
- Review of each modules by members of OFFLU network and target users (vet services & private stakeholders)
- Review of the final manual by 2 external reviewers

Calendar (1 year)

