REQUIREMENTS FOR REGISTRATION OF VACCINES

Scope

National Medicines Regulatory Authority (NMRA) established under NMRA Act No 05 2015 to ensure that the medicines to the public meet the required standards of quality, safety, efficacy. Marketing authorization is one of the mandatory and important regulatory requirement.

This guideline is applicable to registration of all vaccines. The quality safety and efficacy of these products is assured through the requirements as described in this guidance document. This documentation shall be read in conjunction with the current laws and regulations controlling medicines in Sri Lanka and guidelines for registration of medicines published by NMRA. The written laws shall take precedence over this guidance document in any event of discrepancy.

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ABBREVIATIONS

NMRA National Medicines Regulatory Authority

NCL National Control Laboratory

MRI Medical Research Institute

SLP Summary Lot Protocol

WHO World Health Organization

PMS Post Marketing Surveillance

NTP National Testing Policy

SOP Standard Operating procedure

NRA National Regulatory Authority

CTD Common Technical Document

SLMC Sri Lanka

SLPMC Sri Lanka

AEFI Adverse Events Following Immunization

NMRA National Medicines Regulatory Authority

Annexure 1 – Format for PMS data for Sri Lanka

Annexure 2 – Prior registration checklist on vaccine quality and safety

Introduction

A vaccine is a biological preparation that improves immunity to a particular disease. A vaccine typically contains an agent that resembles a disease-causing microorganism, and is often made from weakened or killed forms of the microbe, its toxins or one of its surface proteins. The agent stimulates the body's immune system to recognize the agent as foreign, destroy it, and "remember" it, so that the immune system can more easily recognize and destroy any of these microorganisms that it later encounters. (WHO)

Center for preregistration sample testing

NCL Sri Lanka (MRI) is the prevailing body that is responsible for preregistration sample testing facility for vaccines

Center for lot release

NCL Sri Lanka (MRI) is the prevailing body that responsible for carried out Lot release process for vaccines as per NTP

Required Documentation

Documents which are common for both medicines and vaccines should be submitted according to guideline on registration of medicines. This document includes required specific information required for vaccines.

1. Summary lot protocol (SLP) of production and quality control testing

The SLP of the product should contain all relevant details concerned with the manufacturing of the batch of vaccine. It should be made for each batch of the vaccine. This should contain detailed information on manufacture and quality control of master seeds, working seeds, working cell banks, media, control cell cultures, single harvest, bulk, final bulk, final lot and final product.

Summary protocols should be prepared according to the WHO formats. The information to be included in the SLP is given in table 1. The protocol supplied by the manufacturer should include all appropriate production and control steps. Results of tests are required. Specifications of each test and dates when the tests were performed should also be included.

The SLP should be submitted for four batches.

Table 1: Information to be included in the summary lot protocol

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	Item	Essential Information to cover				
1	Identity of manufacturer	Name of manufacturer				
	Site(s) of manufacturing	Site of manufacturing for each bulk, final bulk and final				
		Product				
3	Name and lot number	Name and lot numbers of the final products, bulk, final bulk and the diluent if applicable				
4	Lot size	Volume, number of doses and type of container				
5	Expiry dates	For each starting material, intermediates, final bulk and final product				
6	Dates of manufacturing	For each critical starting material (e.g. seed lots, cell banks, starting materials of animal origin etc.), intermediate, final bulk and final product				
7	Flowchart	Flowchart for traceability of the manufacturing process for				
		major components, including lot numbers				
8	Strains and cell substrates	Name, seed lot number, passage number				
9	Manufacturing process	Each production process (such as cultivation, purification,				
		inactivation), the methods of quality-control tests as well				
		as their release specifications and the results obtained; the				
		lot number of intermediates and their size/volume, storage				
		conditions				
10	Formulation	Amount of active components in the final formulations, with				
		the lot numbers and volumes of bulk concentrates; storage				
		conditions				
11	Quality control tests	 actual results of tests on critical starting materials, intermediates, final bulk and final product and the specification; provide the starting date of the test, method, and a list of 				

		reference preparations, standards, critical reagents and their qualification status, plus the performance of relevant reference preparations, standards and internal controls, such as results of assay validity criteria (e.g. slope, intercept, linearity, 50% end-points, results of internal controls, challenge doses); • provide statistical results, such as mean, geometric mean, standard deviation, 95% confidence intervals, etc., if applicable; • include results of failed tests or note invalid tests if a test has been repeated
12	Filling, labeling and packaging	Sites, dates and details of equipment used

The format and content of the summary lot protocol should be approved by the NCL during the registration process.

In situations where any changed done to the approved production process, the format of the protocol can be amended with the prior approval of NMRA. Such an approval should be recorded in the registration dossier and it is the responsibility of NMRA to inform the NCL and the Local agent about the approval.

2. Manufacturing process and formula/ Master formula-

- **A.** Documents related to validation of processes and qualifications of equipment / devices and relevant SOPs.
- B. Complete manufacturing formula should be submitted with description of each step with flow chart
- 1. Flow plan of manufacturing facility
- 2. Master seeds certificate from NRA
- 4. Working seed passaging, antigen content
- 5. Control cell cultures testing for extraneous agents
- 6. Inoculation
- 7. Incubation
- 8. Harvesting single harvest
- 9. Purification
- 10.Mixing process of combined vaccines
- 11.Bulk preparation

National Medicines Regulatory Authority Published version 1 of July 2018 12.Final lot

13.Final product

3. Lot release certificate issued by the NRA / NCL of the manufacturing country (If filling and packaging of vaccine done in a separate country, lot release certificate from NRA / NCL of filling country also should be submitted).

4. Certificate of analysis of finished product

5. Certificate of analysis of diluent if applicable

6. The package information leaflet

7. Clinical trial data & PMS data

Detailed report on clinical trial should be submitted in format of module 5 of CTD. If it is a new application, PMS data from country of manufacture should also be submitted. If the application is for renewal of registration of a vaccine, PMS data of Sri Lankan market should be submitted in accordance with the format provided by the NMRA (Annex 1)

8. List of countries

List of countries where this particular vaccine is registered and list of countries where this vaccine registration is revoke should be submitted

9. Prior registration check list

Filled and signed prior registration checklist should be submitted as per Annexed 2

Annexure 1

Post Marketing Surveillance of Vaccines

Monthly Reporting Form

Name of the hospital: Overall results

	Date:		Mon	th:						Year:		
Serial Num ber	Date of vaccination	Age of the vaccine (client)	Medical officer (prescribe r)	Contact details of the medical officer	Type of the vaccine	Dose	Batch no./Lo t no.	Expi ry date	Type of the adverse reaction	Time duration between vaccinatio n & occurrence of first symptom	O ut co m e re co ve re d/ re co ve ri ng	Remar ks

Type of the vaccine (1): Total amount of the vaccine distributed:

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Name & address of the local agent:

Annexure 2

Prior registration checklist on vaccine quality and safety

		Yes	No	Comment
1 Vaccine storage	and distribution plan			
				1
1.1	Vaccine storage facility at supplier level			
	1.1.1 Availability of dedicated vaccine storage facility			
	at (a) 2°C-8°C			
	(b)- 20°C			
	1.1.2 Availability of temperature monitoring devices (a) Thermometer			
	(b) Data lodger			
	(c) Freeze Tag			
	1.1.3 Availability of a trained designated person for			
	daily monitoring of temperature and cold chain			
	1.1.4 Availability of vaccine carriers/Igloo to transport			
	vaccine to sales outlets/Private Hospitals			
	1.1.5 Availability of written vaccine distribution plan			
	1.1.6 Availability of system to monitor maintenance of			
	cold chain at sales outlet/Private Hospitals			
1.2	Vaccine distribution plan : essential components			
	1.2.1 Vaccine will be sold/delivered <i>only</i> to authorized			
	sales outlets/private Hospitals which are registered			
	under NRA/SLPMC.			
	1.2.2 Vaccine will be sold /delivered <i>only</i> to sales			
	outlets /private clinics where a dedicated refrigerator			
	is available for vaccine storage.			
	1.2.3 Vaccine will be sold/delivered only to sales			
	outlets /private clinics where temperature monitoring			

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	devices are available (thermemeter Freeze tegs Date		
	devices are available (thermometer, Freeze tags, Data lodger)		
	1.2.4 Vaccine will be sold/delivered <i>only</i> to sales		
	outlets /private clinics where temperature monitoring		
	records are available		
	1.2.5 Vaccine will be sold/delivered only to sales		
	outlets /private clinics where trained person(s)* to		
	handle vaccine is/are available		
	1.2.6 Vaccine will be sold/delivered <i>only</i> to private		
	hospitals where SLMC registered medical officer		
	/RMO/AMO is/are available		
	1.2.7 Vaccine will be sold/delivered <i>only</i> to private		
	hospitals where a Register of all vaccine recipients are		
	maintained		
	1.2.8 Vaccine will be sold /delivered <i>only</i> to private		
	hospitals from where regular return on AEFI data are		
	sent to the MOH of the area.		
2 Vaccine sales an	nd safety information		
2.1	Supplier shall send a quarterly return to		
	chairman/NMRA with copy to Chief Epidemiologist,		
	that include following sales information		
	2.1.1 number of doses imported		
	2.1.2 number of doses distributed		
	2.1.3 number of doses dispensed by sales		
	outlets/clinics		
2.2	Consider the Handa and a supertrain return to D/MTOC with		
2.2	Supplier shall send a quarterly return to D/MT&S with copy to Chief Epidemiologist on Post Marketing		
	Surveillance (PMS) data		
	2.2.1 PMS data from global		
3 Commercial Ad	2.2.2 PMS data from in country		
3 Commercial Au	3.1 Supplier agrees that NO commercial		
	advertisement (both printed and electronic form) will		
	be developed or/and distributed, making any		
	comparison on quality and safety of vaccines used in		
	the National Immunization Programme in Sri Lanka		
	3.2 Supplier agrees that <i>NO</i> commercial		
	advertisement (both printed and electronic form) will		
	be developed or/and distributed, directly or indirectly		
	affecting the public confidence on vaccines used in the		
	an esting the public confidence on vaccines used in the	1	

National Immunization Programme in Sri Lanka		
3.3 Supplier agrees that NO direct or indirect		
commercial promotion of registering vaccine is done		
among medical and paramedical personnel		

^{*}Competence on vaccine cold chain maintenance is an essential part to ensure vaccine safety and quality in the private sector, as being practiced in the national immunization programme. Training on cold chain maintenance and vaccine safety is therefore necessary and supplier is responsible to facilitate the training need with the support from the Epidemiology Unit.

Reference:

http://www.who.int/topics/vaccines/en/