Compliance to Air-Ventilation systems, Thermostability, CTDs and Bioprocess optimization of vaccines for global markets

DRAFT AGENDA

Shanghai 19 to 22 March 2018

DAY1, Monday 19 March- Welcome and Introduction Plenary session for all participants			
Time	Topic	Speaker	
9h00 - 9h30	registrations	SIBP	
9h30 – 10h00	Welcome Coffee		
10h00 – 10h30	Introduction by host, Shanghai Institute for Biological Products, Sinopharm	SIBP	
10h30 – 11h30	DCVMN Updates: compliance, training, regulatory activities and E-learning platform	DCVMN	
11h30 – 12h30	Bioprocess of vaccines	AW	
12h30 – 13h30	Lunch		
HVAC management Plenary session for all participants Hosted by Munters at Novotel			
13h30 – 14h00	Heat Ventilation Air Conditioning (HVAC): Background and introduction	M. Ginty	
14h00 – 15h30	Overview of air flow principles in manufacturing and storage of vaccines	M. Ginty	
15h30 -16h00	Coffee Break		
16h00 – 17h30	Current and evolving standards, regulations and oversight mechanisms and tools to monitor air humidity and purity – global, regional and WHO standards	M. Ginty	
17h30	Adjourn		

DAY2, Tuesday 20 March –Thermostabilty of vaccines Plenary for all participants - Hosted by Temptime at Novotel			
Time	Topic	Speaker	
8h30 – 9h30	 Thermostability of vaccines 	Ted Prusik;	
	 Vaccine stability study design 	Steve Feldman	
9h30-10h30	 Importance of the maintaining the 	Ted Prusik;	
	cold chain	Steve Feldman	
	Temperature monitoring tools		
10h30-11h00	Coffee Break		
11h00-12h30	 What is a vaccine vial monitor (VVM) and how does it work? How is the VVM category chosen for a vaccine? 	Ted Prusik; Steve Feldman Temptime	
12h30 – 13h30	Lunch		
13h30 – 15h00	Implementation of VVM at vaccine manufacturer	Ted Prusik; Steve Feldman; Xizhe Wang	
15h00 – 15h30	Coffee Break		
15h30 – 16h15	Group activity – VVM category choice	Participants	
16h15 – 17h00	Group activity – VVM receipt and 37°C testing at manufacturer	All	
17h00 – 17h30	Q&A, conclusions and follow-up	All	
17h30	Adjourn		

DCVMN Training workshop Shanghai, 21 and 22 March 2018

Session A: Hands-on Bioprocess training hosted by GE Healthcare's Fast Trak ServicesTeam Limited to 10 participants only

Objectives

This course covers in-depth training on:

- 1) Upstream process development using single-use equipment at 50L scale, and hands-on bioreactor cultivation using microcarriers.
- Downstream process development using chromatography purification techniques and hands-on column packing techniques
- 3) QbD best practices in process development
- 4) Process economy considerations for vaccines

Participants Profile

Who should attend: Research and development scientists, upstream and downstream process engineers, and manufacturing technicians in the vaccine industry.

Expected outcomes

At the end of the workshop participants will be able to:

- 1) Apply best practices to your vaccine process development work
- 2) Cultivate microcarrier cell culture in a single-use bioreactor
- 3) Design best in class QbD strategies
- 4) Develop vaccine chromatographic techniques

DAY 3, Wednesday 21 st March – Bioprocess session Hosted by GEHC at Fast Track Center			
Schedule	Topic	Speaker	
9h00 - 9h30	Welcome and Introduction to Fast Trak	Jessy Yang, Fast Trak China Leader	
9h30 - 10h30	Introduction to process development in Vaccine production	Mats Lundgren, Customer Applications Director	
10h30-10h45	Coffee break		
10h45- 11h45	Vaccine upstream processing- an overview	Jianjun Yang, Team Leader - Upstream	
11h45 - 12h00	Q&A and Discussion	All	
12h00 - 13h00	Lunch		
14h00- 16h00	Hands-on: Inoculation of microcarrier culture, Bead to bead transfer in spinner flask, monitoring cells growth in microcarrier cultures	Jianjun Yang, Team Leader - Upstream	
16h00 - 16h30	Hand-on training: 50L single-use bioreactor (Xcellerex [™] XDR 50)		
16h30 - 17h00	Discussion & Conclusion - Close of Day 1General	All	
DAY 4, Thursday 22 nd March – Bioprocess session Hosted by GEHC at Fast Track Center			
Schedule	Topic	Speaker	
9h00 - 9h15	Re-cap of previous day		
9h30 – 10h30	Vaccine downstream processing an overview	Mats Lundgren, Customer Applications Director	
10h30 – 10h45	Break		
10h45 – 12h00	Hands-on training: column packing using relevant columns (AKTA TM avant)	Fast Trak Team Leader- Downstream	
12h00 – 13h00	Lunch		
13h00 – 14h00	QbD best practices in process development	Mats Lundgren, Customer Applications Director	
14h00 – 15h00	Process economy for vaccines	Mats Lundgren	
15h00 – 16h00	Conclusions & Closure	nigura in required for this	

NOTE: A basic understanding of cell culture and corresponding techniques is required for this course.

Session B: Common Technical Document (CTD) held at Novotel, hosted by DCVMN & BMGF

Objectives

The workshop is aimed at

- 1) Offering background information on the CTD history, structure and adoption process by different countries and regions
- 2) Providing details of differences in requirements among countries across the globe
- 3) Considering options for a certain level of alignment of requirements
- 4) Exercising on how to prepare a CTD type of dossier

Participants Profile

Participants are staff from regulatory affairs or Quality Assurance Departments from vaccine manufacturing companies having a good level of spoken and written English.

Expected outcomes

At the end of the workshop participants will have

- 6) Understanding of the CTD and the different versions and requirements across the world
- 7) Understanding of the DCVMN members to work on an alignment proposal and its nature
- 8) Practice on the contents expected to be included under each section of the ICH CTD

DAY3, Wednesday 21 st March – CTD session Hosted by DCVMN at Novotel		
Schedule	Topic	Speaker
Part 1	ICH and Common Technical Document	
8h30 - 10h30	History of ICH: The Common Technical Document, Structure and Contents	N. Dellepiane
9h30 - 10h30	Q & A	All
10h30-10h45	Coffee break	
Part 2	Comparison of different CTDs	
10h45- 11h30	Contents and Structure of different CTDs	N. Dellepiane
11h30 - 12h30	Results of comparative study on similarities and differences between different CTDs	N. Dellepiane
12h30 –	Q&A and Discussion	All
13h00		
13h00 - 14h00	Lunch	
Part 2	Comparison of different CTDs	
(continued)		_
14h00- 15h00	Module 1 Countries' application forms Modules 2 to 5 relevance of differences	N. Dellepiane
15h00 – 15h30	Model Application form as part of module 1? Options for alignment: proposal	M. Utom (tbc)
		N. Dellepiane
Part 3	Options for alignment	
15h30- 15h45	Coffee break	
15h45 - 17h00	WHO proposed module 1 for PQ submissions	N. Dellepiane
17h00 - 17h30	General Discussion	All

Day 4, Thursday 22 nd March CTD session Hosted by DCVMN at Novotel			
Schedule	Topic	Speaker	
Part 4	Countries' experience		
8h30 - 9h30	Experience of Chinese manufacturers in building a CTD for registration in other countries	CNBG & Wendy Huong (tbc)	
9h30 - 10h00	BioFarma experience with ASEAN CTD	lin Susanti	
10h00 -10h30	Experience of Indian manufacturers in construction of CTD for Indian NRA and PAHO countries	Nirav Chokshi (tbc)	
10h30-10h45	Coffee break		
Part 5	Group exercises		
10h45 – 11h00	Groups' organization	S. Pagliusi	
11h00 – 13h00	Building a CTD WG1: Module 1 and application form WG2: Module 3 WG3: Module 4 WG 4: Module 5	Working Groups	
Working 13h00 - 14h00	Lunch		
14h00 - 15h30	Building a CTD (continued)	Working Groups	
15h30 - 15h45	Coffee break		
15h45- 17h00	Presentation of results by each working group (10 mins)	Working Groups	
17h00 - 17h30	Conclusions & Adjourn	S. Pagliusi	