



15 November 2022 EMA/601355/2021

Agenda – Joint EMA-FDA Workshop:

Efficacy of monoclonal antibodies in the context of rapidly evolving SARS-CoV-2 variants

15th December 2022, 13:00 - 17:00 (WEBEX)

Objectives:

- To bring together the expertise of academics, clinicians, industry and regulatory bodies to address the acceptability and challenges of alternative strategies to support the development of novel monoclonal antibody therapies including those based on prototype products that have demonstrated safety and efficacy in clinical trials.
- To discuss the current evidence for the use of surrogates of clinical efficacy (e.g., neutralisation titers, PK/PD modelling, viral load) to support the activity of already approved/authorised monoclonals and the development of novel monoclonal antibodies against variants of concern.
- Foster potential way(s) forward to support the development of novel monoclonal antibody therapies

Scientific Programm:

Chairs: Marco Cavaleri (EMA) and Adam Sherwat (FDA)

Item	Agenda		Time			
Introdu	Introduction Remarks					
1.	 Problem statement presentation Regulatory challenges Fast evolution of VOCs with immune evasion capacity Feasibility of clinical trials in the dynamic epidemiological situation 	Adam Sherwat (FDA) Marco Cavaleri (EMA)	10 min			
Current evidence and potential ways forward						
2.	Overview of the clinical trials that led to the authorisation or EU-approval of monoclonal antibody therapies	Eugenia Di Meco (EMA)	10 min			
3.	Overview of data on neutralization activities of monoclonal antibodies against Variants of Concern (VoC)	Daniel Sheward (Karolinska Institute,	10 min			

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Item	Agenda		Time		
		SE)			
4.	Utility of virologic assessments as a marker of progression to severe disease based on data from the ACTIV-2 trial	Michael Hughes (Harvard School of Public Health; US)	10 min		
5.	PK/PD modelling approach: strengths and weaknesses	Tim Bensman (FDA)	15 min		
6.	Evidence in support of the use of serum neutralisation data to justify a dose increase of monoclonal antibodies to tackle new variants	Timothée Bruel (Institute Pasteur, FR)	10 min		
7.	Cross validation between variants: What have we learned from vaccine studies	Peter Gilbert (Fred Hutchinson Cancer Center, US)	10 min		
8.	Correlation between protection and <i>ex-vivo</i> neutralization in the context of pre-exposure prophylaxis	Dean Follmann (NIAID, US)	15 min		
Break 10-15 minutes					
9.	Correlates of protection using a neutralisation approach	Miles Davenport (Kirby Institute, AUS)	15 min		
10.	Considerations regarding assessment of a modified mAb product related to a prototype mAb product in addressing emerging SARS-CoV-2 variants – a CMC perspective	Joanna Zhou (FDA)	10 min		
11.	Industry perspective on potential methodological approaches (e.g., utilization of neutralization titers, PK/PD modeling) to predict or assess the clinical efficacy of novel monoclonal antibodies (including those based on prototype products that have demonstrated safety and efficacy in clinical trials)	Industry	30-45 min		
Discuss	ion				
12	 Open discussion on potential way forward 1. What are the strengths and weaknesses of the following modalities for bridging efficacy from a monoclonal antibody (mAb) product that has already demonstrated safety and efficacy in clinical trials to a new mAb product? Immunobridging approaches based on serum neutralization titres (SNT) PK\PD modelling Pharmacodynamic markers Others 2. What are the are the advantages and disadvantages of comparing the activity of a new product against current circulating variants to the activity of a prior product against variants that were in circulation during the clinical trial that 	Contribution of all participants	60 min		

Item	Agenda		Time		
	 What are potential way(s) forward for development of new mAb products that are not based on mAb products/platforms that have already demonstrated safety and efficacy in clinical trials? 				
	 Please comment on whether there are different considerations for developing products for prophylaxis vs treatment. 				
	Chairs: Marco Cavaleri (EMA)				
	Adam Sherwat (FDA)				
Closing Remarks					
13.	Summary of actions and next steps	Marco Cavaleri (EMA)	5 min		
	Close of meeting	John Farley (FDA)			