

The Parenteral Drug Association presents:

Virus & TSE Safety Forum



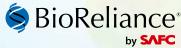
Bringing you the latest on Virus Testing, Clearance, and Risk Mitigation from FDA, EMA and Industry Representatives!

Forum, Exhibition 9-11 June

9-11 June 2015

Grande Hotel Real Villa Itália Lisbon (Cascais) | Portugal Register by 11 May 2015 and SAVE!

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LETTER FROM THE CO-CHAIRS

Welcome to the 2015 PDA Europe Virus & TSE Safety Forum. This conference was established in 2001 and, held annually since then, alternates between Europe and the U.S.

These truly global meetings are organized under the leadership of PDA in close cooperation with European regulatory agencies and the U.S. FDA. They provide an overview and updates on regulatory expectations and scientific investigations related to virus and TSE safety of biotechnology, plasma-derived and cell-derived medicinal products.

This year's conference follows the same concept. It will

- illustrate current thinking of regulatory agencies related to the virus safety of medicinal products,
- discuss the role of new technologies for virus detection,
- explore the use of new detergents for virus inactivation especially in the biotech industry, and
- outline the progress achieved in use and development of virus retentive filters.

As in previous years, virus contamination of raw materials as well as emerging viral threats will be discussed. Appropriate risk mitigation strategies consisting of two elements: i.) Testing and processing of raw materials and ii.) Virus removal/inactivation capacity of the processes used for production of medicinal products will be taken into consideration. The last day of the conference will focus on TSE and how much vCJD or BSE currently pose a threat to the safety of medicinal products.

The PDA Europe Virus & TSE Safety Forum always provides attendees a unique opportunity for interactive discussion and benchmarking. Exchange of information between industry and regulators will improve the understanding and acceptance of new techniques, highlight new and emerging risks and explain new regulatory approaches.

Please join us and contribute to this discussion by sharing your experiences and opinions.

You are warmly invited to Lisbon/Portugal next June!

Scientific Program Planning Committee

Hannelore Willkommen, Co-Chair, RBS Consulting

Kurt Brorson, Co-Chair, FDA

Johannes Blümel, Paul Ehrlich Institute

Dayue Chen, Eli Lilly

Qi Chen, Genentech

Houman Dehghani, Amgen

Albrecht Gröner, CSL Behring

Thomas Kreil, Baxter

Michael Ruffing, Boehringer-Ingelheim

Sol Ruiz, AEMPS

Dorothy Scott, FDA

Glenda Silvester, EMA

Georg Roessling, PDA Europe

Hannelore Willkommen, PhD, President, Regulatory Affairs & Biological Safety Consulting Conference Co-Chair



Kurt Brorson, PhD, Senior Investigator, FDA/CDER

Manuelee Ollown

Conference Co-Chair

Tuesday, 9 June 2015

9:00 Welcome & Introduction Georg Roessling, *PDA Europe*

Hannelore Willkommen, *Co-Chair, RBS Consulting* Kurt Brorson, *Co-Chair, FDA*

Session 1: Regulatory Update

Moderators: Glenda Silvester, EMA

Dorothy Scott, FDA

Virus safety of biopharmaceuticals is an important quality attribute. EMA and FDA will provide updates on their current activities in this field. Experience from the evaluation of clinical trial applications in the EU will be highlighted. The challenges and gaps in assuring viral safety of Ebola convalescent plasma from Western Africa will be presented.

9:15	EMA Update on Plasma-Derived and Urine-Derived Medicinal Products: Workshops on Hepatitis E Virus and Viral Marker Epidemiology, Guideline Urine-Derived Products	Johannes Blümel, <i>PEI</i> Glenda Silvester, <i>EMA</i>
9:45	Update FDA	Kurt Brorson, <i>FDA</i>
10:15	Update FDA: Plasma Collection in West Africa	Dorothy Scott, FDA
10:45	Update on Clinical Trials	Johannes Blümel, <i>PEI</i>
11:00	Panel Discussion with Regulators	
11:45	Lunch Break, Poster Session & Exhibition	

Session 2: Emerging Viruses Moderator: Thomas Kreil, Baxter

The virus safety margins of biological medicinal products have seen significant improvements over time, with contributions from the selection of healthy plasma donors or production cell lines and raw materials, the testing of materials utilized in production, and - most effectively - the introduction of dedicated virus reduction, i.e. removal and inactivation, steps into the manufacturing processes. The result of these interventions, i.e. the safety tripod, are evaluated by risk assessments that compare the potential virus load, as determined by selection and testing strategies, to the virus reduction capacity of the manufacturing process, as determined by studies with a select number of model viruses. Emerging viruses can, however, challenge the basic assumption of such risk assessments. For example, the degree to which an emerging virus is reduced by virus inactivation and removal steps may be unclear based on existing virus reductions studies, and may require verification. Furthermore, a newly developed test technology may reveal the presence of viruses, where absence had been assumed based on limitations of earlier used test systems. Examples of these challenges, and potential mitigation strategies, will be discussed.

12:45	NGS Investigations for Novel Viruses in Insect Cell Substrates	Arifa Khan, <i>FDA</i>
13:15	Novel Horse Hepaciviruses:	Eike Steinmann, <i>Twincore</i>
	Epidemiological, Clinical and Zoonotic Features	
13:45	Capacity of Plasma-Derived Manufacturing Processes for	Nathan Roth, CSL Behring
	Inactivation and Removal of HEV: In-vivo Infectivity Studies using a	
	Porcine Model and Partitioning Studies using a Highly Relevant HEV Spike	
14:15	Q & A, Discussion	
14:30	Coffee Break, Poster Session & Exhibition	

Session 3: Safety of Starting & Raw Materials

Moderator: Albrecht Groener, Pathoguard

Virus safety of starting and raw materials of biologicals is of utmost importance in order to prepare virus safe finished products, as the virus inactivation/removal capacity of the manufacturing process has to clearly exceed the potential amount of virus that could enter the production process via starting and raw materials. Different approaches in the detection and the prevention of virus contamination of starting materials will be presented.

15:00	A Case Study of Using Human Cells for Biologic Production: Cell Substrates, Testing, Viral Clearance and Beyond	Dayue Chen, <i>Eli Lilly</i>
15:30	Virus Safety Concepts for Products Derived from Convalescent Plasma	Thomas Kreil, <i>Baxter</i>
16:00	An in-vitro Assay for Detection of Adventitious Viruses of Ovine and Caprine Origin in Raw Materials for the Production of Biopharmaceuticals for Use in Humans	Reginald Clayton, <i>BioReliance</i>
16:30	Coffee Break, Poster Session & Exhibition	
17:00	Identification of a Suitable Positive Control for the Sp2/0 Cells in the Adventitious Virus Assay	Laurence Steegstra-Trannoy, Janssen Biologics
17:30	Evaluation of Growth Properties of Different Strains of MVM in two Different Indicator Cell Test Systems	Houman Dehghani, <i>Amgen</i>
18:00	Panel Discussion	
18:30	End of Day 1 & Networking Event kindly supported by our Diamond Sponsor	BioReliance

Wednesday, 10 June 2015

Session 4: Virus Testing: Risk Mitigation Part I

Moderator: **Qi Chen,** Genentech

Since the discovery of circovirus contamination in commercial rotavirus vaccines using next generation sequencing (NGS), this powerful new technology has been considered to evaluate viral safety of biotech products. In this session, an overview of application of this technology as well as case studies will be discussed.

8:30	Current Efforts and Challenges for Using NGS for Adventitious Virus Detection	Arifa Khan, <i>FDA</i>
9:00	NGS-Comparative Study Results	Jens Modrof, <i>Baxter</i>
9:30	Approaches to Improving Product Quality and Safety using NGS	Donna McMutrie, <i>BioReliance</i>
10:00	Q & A, Discussion	
10:15	Coffee Break, Poster Session & Exhibition	

Virus Clearance: Risk Mitigation Part II

Moderator: Dayue Chen, Eli Lilly

The presentations in this session focus on data sharing, practice benchmarking, and out-of-box thinking. The session starts with a comprehensive data set on medium treatment using various technologies to mitigate the potential risk of viral contamination events. The updated version of FDA internal database on viral clearance will be shared, which includes the information from the latest submissions. Finally, intriguing thoughts on log reduction factors (LRF), the standard measurement for the effectiveness of viral clearance, will be presented.

10:45	A Survey of Industry Data on HTST, UV-C and Nanofiltration for Media Treatment and their Efficacy of Removal and Inactivation of	Paul Barone, <i>MIT CAACB</i> Virus
11:15	An Update of the FDA Viral Clearance Database to include Regulatory Submission until 2014	Scott Lute, FDA
11:45	Effective Viral Clearance – a Question of the Reduction Factor?	Horst Ruppach, Charles River
12:15	Q & A, Discussion	
12:45	Lunch Break, Poster Session & Exhibition	
Session 6:	Virus Clearance: Inactivation	Moderator: Kurt Brorson , FDA Co-Chair

Virus inactivation is a key safety measure for both biotech and plasma derived products. The technology behind this imperative has evolved over the past few years as expectations to use newer and more eco-friendly detergents have arisen. The session will also discuss strategies to minimize virus carry-over in multi-use columns, another application where more robust virus inactivation can lead to a better product safety profile.

13:45	Virus Inactivation by Eco-friendly Detergent	Qi Chen, Genentech
14:15	Evaluation of Virucidal Detergents using a Novel High-Throughput Cell-based Assay Approach	Martina Kopp, <i>Amgen</i>
14:45	Chromatography: Virus Carry-Over and Lifetime Studies	Albrecht Groener, Pathoguard
15:15	Q & A, Discussion	
15:45	Coffee Break, Poster Session & Exhibition	

Session 7: Virus Clearance: Filtration

Moderator: Hannelore Willkommen, Co-Chair

Virus filters contribute substantially to the virus safety of medicinal products. It is therefore important to understand factors that may affect filter performance. Optimization of virus filtration processes, structure analysis of virus retentive filters, limitation of current filters for retention of small size viruses, effect of flow interruption, comparison of the performance of second generation filter brands and other topics related to the value and the reliability of filters for virus retention will be discussed in this session.

16:15	Optimization of Virus Filtration Studies and Process Parameters	Thomas Kreil, <i>Baxter</i>
16:45	Structure Analysis of Virus Filters via Gold Nanoparticles and liquid-liquid Displacement Porometry	Peter Kosiol, Sartorius-Stedim
17:05	An Evaluation of the Removal of PCV by the Asahi Planova 15Nm 20N, BioEX and Custom-made Filters with a Pore Size of 12.5 nm and 10 nm	Andrew Bailey, Virusure

17:25	Optimization of the Virus Removal Filtration Processes	Tomoko Hongo-Hirasaki, <i>Asahi Kasei</i>
17:45	Effect of Processing Parameters on Parvovirus Retention by Membranes after Flow Interruption	Anne Leahy, <i>EMD Millipore</i>
18:05	High Capacity Virus Filtration	Rachel Specht, <i>Genentech</i>
18:35	Q & A, Discussion	
19:00	End of Day 2	

Thursday, 11 June 2015

Existing and emerging TSE's still present potential concerns for safety of biogical products. This session provides an update on human and animal TSE epidemiology worldwide, and recent findings related to pathogenesis and dissemination of infectivity in the host. Safety measures to prevent TSE contamination of products will be presented – including current developments in blood testing, TSE clearance studies for a bovine-sourced product, and facility decontamination methods.

9:00	Introduction, Update on US vCJD Donor Deferrals	Dorothy Scott, Principal Investigator Laboratory of Plasma Derivatives CBER/FDA
9:15	Case Study of TSE Clearance in Bovine Heparin Production & Risk of Bovine Materials	Luisa Gregori, Principal Investigator Laboratory of Bacterial and TSE Agents CBER/FDA
9:45	Update on vCJD Epidemiology	Robert Will, National CJD Surveillance Unit and University of Edinburgh
10:15	Update on Blood Testing	Graham Jackson, MRC Prion Unit Department of Neurodegenerative Diseases, UCL Institute of Neurology
10:45	Coffee Break, Poster Session & Exhibition	
11:15	Cell Susceptibility	Peter Kloehn, Program Leader, MRC Prion Unit University College London
11:45	Inactivation of Equipment	Albrecht Groener, Pathoguard
12:15	Q & A, Discussion	
12:45	Farewell Remarks & End of Conference	
13:00	Please join us for a PDA Luncheon	

NETWORKING DINNER INVITATION



Date: 9 June 2015

Begin: 19.30h

PDA is pleased to invite you to a great evening at **Coconuts** alongside Cascais Marina, overlooking the sea and with the **Santa Marta Lighthouse** as a sentinel.



Besides the magnificent view and the over the sea outdoor lounge, please join us for a typcial atmosphere with barbecue and Fado singers.

Meet with conference attendees in this unique atmosphere and network while you relax.

RSVP REQUIRED, FURTHER INFORMATION UPON CONFERENCE REGISTRATION.

S BioReliance

The Networking Event is kindly supported by our Diamond Sponsor BioReliance

Scientific Program Planning Committee

Hannelore Willkommen, Co-Chair of Conference, RBS Consulting

Kurt Brorson, Co-Chair of Conference, FDA

Johannes Blümel, Paul Ehrlich Institute

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Thomas Kreil, Baxter

Michael Ruffing, Boehringer-Ingelheim

Sol Ruiz, AEMPS

Dorothy Scott, FDA

Glenda Silvester, EMA

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Membership Management

Interest Groups

General Event Information

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Call for Papers

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Conference Agenda

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Manager Exhibition & Sponsorship

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Exhibition and Sponsorship Opportunities are available. PDA meetings and conferences are a great opportunity for your company to gain on-site exposure in front of highly-qualified, upper-level professionals in the pharmaceutical and biopharmaceutical industry. Exhibit at PDA events and let your company's products or services become a valuable tool or resource for our attendees.

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Tel: +49 (0) 33056 - 23 77 10 Fax: +49 (0) 33056 - 23 77 77



Please note our new address as of 18 May 2015

PDA Europe gGmbH Am Borsigturm 60 13507 Berlin Tel: +49 (30) 4365508-0 Fax: +49 (30) 4365508-66

Venue

Grande Hotel Real Villa Itália

Rua Frei Nicolau de Oliveira, 100 2750-319 Cascais-Portugal T_ (+351)210 966 000 F_ (+351) 210 966 001 E_ realvillaitalia@hoteisreal.com www.granderealvillaitalia.realhotelsgroup.com/en

Room Reservations

Housing at the selected hotel will be in high demand, so we strongly recommend making your reservations early.

The Hotel is located approximately 30 minutes from Lisbon in Cascais

How to find the venue:



© Google – For directions click on the picture, scan the QR-code or go to **https://goo.gl/maps/qaBmC**



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Your Contact Person is Antje Petzholdt at PDA Europe petzholdt@pda.org

This PDF-file provides an automatic fill-in function. Your signature, however, is needed in writing.

4 WAYS **TO REGISTER**

ONLINE: europe.pda.org/Virus2015
FAX: +49 33056 23 77 77
EMAIL: petzholdt@pda.org

MAIL: PDA Europe, Adalbertstr. 9, 16548 Glienicke/Berlin, Germany

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If uncertain about your member ID number and/or your membership status, call or email Ms. Antje Petzholdt. +49 (0)33056 2377-10 petzholdt@pda.org

2 Do not send money in advance

Please wait until we send our invoice to you.

It is helpful to reference our invoice number in your bank transfer details.

3 Complete and sign the event registration form

Please note the registration and cancellation policies at the bottom of the form.

4 Purchase Orders

Registration cannot be completed by sending Purchase Order alone. A Purchase Order is only accepted if a complete registration form is enclosed or follows very soon.

5 Please state VAT ID number if European-based Company

This number starts by your country code (example: PDA Europe's VAT ID number = DE254459362)

6 Please state the correct billing address on the registration form

This is particularly important if billing address and site address are different. Contact your accounting department for correct address and company name. There could be special requirements for accounting. Changes in the billing address (if induced by participating company) will be charged 25,- € if imposed 3 weeks prior to the start of the event.

7 Confirmation of your registration

Credit card charges are confirmed immediately if successfully approved. Bank transfers are confirmed upon receipt of full payment.

8 Refund/Credit Notes

Refunds to credit card can be done immediately if payment had been done by credit card and details are available. Refunds to bank accounts can be done if payment had been done by bank transfer and the following details are provided:

a) Name of your bank
b) IBAN number
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9 Substitutions

If a participant is unable to attend, substitutions are welcome at any time. Changes are free of charge until 3 weeks prior to the start of the event. After this date, there will be a charge of € 50 per name change.

10 For assistance contact: Antje Petzholdt, PDA Europe

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THANK YOU FOR YOUR COOPERATION!

PDA Europe Upcoming Activities and Events

2015				
2-3 June	Advanced Therapy Medicinal Products	Conference,	Amsterdam	
2-5 Julie	Advanced Therapy Medicinat Froduces	Exhibition	The Netherlands	
0.11 luna	Vinus / TCF Cafatu Famus	Conference,	Lisbon (Cascais)	
9-11 June	Virus / TSE Safety Forum	Exhibition	Portugal	
		Conference,	Brussels	
23-24 June	Quality & Regulations	Exhibition	Belgium	
			Tel Aviv	
30 June - 1 July	Managing Risk in Aseptic Processing	Conference	Israel	
	Pharmaceutical	Conference,	Munich	
15-16 September	Freeze Drying Technology	Exhibition	Germany	
	8 th Workshop on	Workshop,	Berlin	
22-23 September	Monoclonal Antibodies	Exhibition	Germany	
C 7 O -t - h	Pharmaceutical	Conference,	Amsterdam	
6-7 October	Cold & Supply Chain Logistics	Exhibition	The Netherlands	
2 4 November	The Universe of Pre-filled Syringes &	Conference,	Vienna	
3-4 November	Injection Devices	Exhibition	Austria	
17 10 November	Outcoursing / Contract Manufacturing	Conference,	Copenhagen	
17-18 November	Outsourcing / Contract Manufacturing	Exhibition	Denmark	
1.2 December	Vaccinas	Conference,	Berlin	
1-2 December	Vaccines	Exhibition	Germany	
For latest info: https:	//europe.pda.org	Subject to change	Shortlist 28 April 2015	

Additional training courses will accompany most conferences. For details, please use the QR-Code or go to www.europe.pda.org

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For exhibition information please contact:

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Please note our new address as of 18 May 2015

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