

EMA together with other EU Health Agencies













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Workshop Guide



Letter from the Chairs

Dear Colleagues,

Since the new "Science and QRM-based Quality Paradigm", as described in ICH Q8-Q11 guidelines, was first endorsed by industry and regulators, global understanding of Quality by Design (QbD) and the underpinning risk management approach have progressed considerably. Nevertheless, the number of submissions containing QbD elements remains relatively low, and dossiers containing enhanced development information are far from becoming a standard approach. Furthermore, ICH Q8-Q11 guidelines provide high-level concepts that may lead to a wide range of interpretations between Industry and Regulators when compared to the earlier, more prescriptive ICH guidelines. Thus, to promote a common understanding of QbD and to share the experience gained since the first workshop in 2009, there is great interest and need for an update. In this two-day workshop at the European Medicines Agency in London, both regulatory and industry representatives will share practical experiences by presenting six case studies of recent QbD submissions that have been evaluated by the Agency. Offering plenty of opportunity for discussion and networking, this event will provide attendees with valuable industry and regulatory insights.

Workshop Overview

In this joint workshop, six case studies will be presented by five industry-representing companies:

Novo Nordisk Pfizer AstraZeneca **GSK Novartis**

The EU PAT Team representatives and the Rapporteurs' assessment teams involved in the evaluation of the actual submissions presented as case studies here will contribute. Regulators directly involved in the six case studies are assessors (chemicals and biologicals) and inspectors from these agencies:

Danish Health and Medicines Authority, Denmark

District Government of Upper Bavaria, Germany

Federal Institute for Drugs and Medical Devices, Germany

French Health Products Safety Agency, France

Italian Medicines Agency, Italy

Medical Products Agency, Sweden

Medicines Evaluation Board, The Netherlands

Medicines and Healthcare Products Regulatory Agency, UK

National Health Laboratory EP, Luxembourg

Norwegian Medicines Agency, Norway

Paul-Ehrlich-Institute, Germany

In addition to the experts of these agencies, representatives from other European Health Authorities, Japan PMDA and others are present.

The Steering Committee wishes to thank the supporting parties for offering current and highly applicable information to the pharmaceutical industry.

We are looking forward to a successful and informative workshop and welcome you to London.

The Workshop Chairs

Jean-Louis Robert, PhD Laboratoire National de Santé

Georges France, PhD Novartis

Information

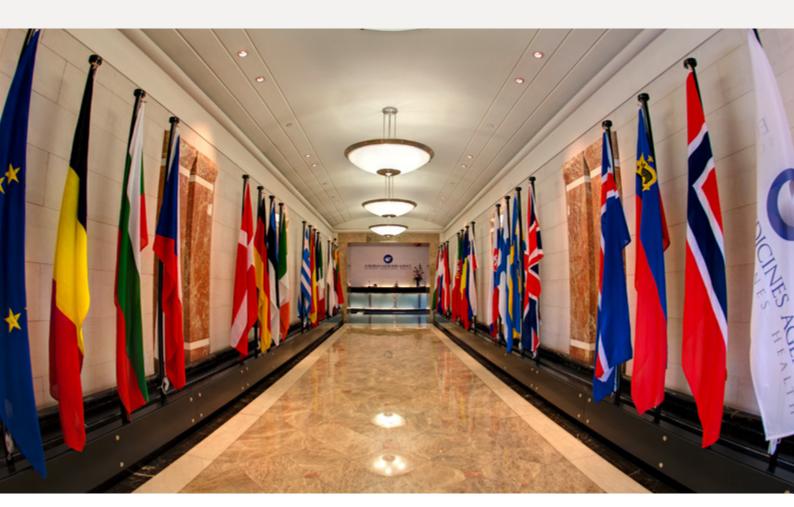
Scientific Planning Committee

Jean-Louis Robert, Co-Chair, LNS
Georges France, Co-Chair, Novartis
David Cockburn, EMA
Graham Cook, Pfizer
Lina Ertle, F. Hoffmann-La Roche
Simona Keckesova, EMA
Evdokia Korakianiti, EMA
Riccardo Luigetti, EMA
Sylvie Meillerais, EFPIA
Peter Richardson, EMA
David Tainsh, GSK
Georg Roessling, PDA Europe
Sylvia Becker, PDA Europe

Venue of the Workshop

European Medicines Agency

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Contact

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Workshop Agenda

Tuesday, 28 January 2014

9:00 Welcome, Introduction & Goals of Workshop Jean

Jean-Louis Robert, *Laboratoire National de Santé (LNS)* Georges France, *Novartis*

Case Study 1 & Discussion

9:45 Risk Assessment and Lifecycle Management Learning

Frank Montgomery, AstraZeneca
Olvia Lake, Medicines Evaluation Board,
The Netherlands

10:45 Coffee Break

Case Study 2 & Discussion

11:15 Design Space Development and Verification

Graham Cook, Pfizer
Tone Agasøster, Norwegian
Medicines Agency, Norway

12:15 Lunch Break

Case Study 3 & Discussion

13:30 Applying QbD for a Legacy Product and achieving
Real Time Release Testing by a Design Space Approach
with Supportive PAT and Soft Sensor-Based Models:
Challenges in the Implementations

Lorenz Liesum, Novartis Lama Sargi, French Health Products Safety Agency, France

Case Study 4 & Discussion

14:30 Challenges in the Implementation of Model-Based

and PAT-Based RTRT

Dora Kourti, GSK
Gorm Herlev Jørgensen, Danish Health
and Medicines Authority, Denmark

15:30 Coffee Break

Case Study 5 & Discussion

16:00 Control Strategy Ron Ogilvie, *Pfizer*

Øyvind Holte, Norwegian Medicines

Agency, Norway

17:00 End of Day 1 & Networking Reception

18:00 Preparation of Conclusions for Day 2 Evdokia Korakianiti, EMA
Graham Cook, Pfizer

Lina Ertle, Roche

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Case Study Speakers

Workshop Agenda

Wednesday, 29 January 2014

Case Study 6 & Discussion

8:30 Novo Nordisk Experience in the Application of QbD

Preben Østfeldt, Novo Nordisk Steffen Gross, Paul-Ehrlich-Institute, Germany

Panel Discussion

9:30 What is needed to further Implementation of QbD for Biopharmaceuticals?

Nanna Kruse, Danish Health and Medicines Authority Graham Cook, Pfizer

10:15 Coffee Break

Learnings and Best Practices from the Case Studies

10:45 Questions/Issues from the Audience and Structured Discussion around Common Themes from Case Studies, e.g.

- Risk Assessment and Criticality
- Design Space
- Use of Models
- Control Strategy
- Lifecycle Management
- The Development Story and Presentation of Information in Submissions
- Dossier Quality System Interactions
- Etc.

13:00 Lunch Break

Moderators:

Moderators:

Evdokia Korakianiti, *EMA* Graham Cook, *Pfizer* Lina Ertle, *Roche*

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Case Study Presenters

International Reflections and Next Steps

14:00

- Reflections from an International perspective USA
- Reflections from an International perspective Japan
- Audience discussion How do we progress?

Christine Moore, FDA Yoshihiro Matsuda, PMDA Jean-Louis Robert, LNS Georges France, Novartis

Innovation in Medicines and Manufacturing

15:30 Future opportunities

David Tainsh, GSK Keith Pugh, MHRA

16:00 Closing Summary David Tainsh, *GSK* Keith Pugh, *MHRA*

16:30 End of Workshop & Farewell Coffee

REGISTRATION

Joint Regulators/Industry QbD Workshop

28-29 January 2014 | London, UK

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