

Book before 24 August 2018
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Patch Pump and High Volume Injection Systems

To book online go to: management-forum.co.uk/2288

Date and venue

2-3 October 2018
The Rembrandt Hotel
11 Thurlow Place
London SW7 2RS
Tel: +44 (0)20 7589 8100

Ref: 10215

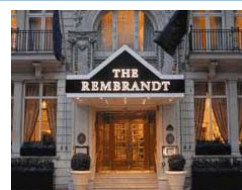
Accommodation

We have arranged a preferential rate for accommodation at the venue. To take advantage of this please contact the hotel on the email below and state you are a Management Forum delegate. There are limited rooms available at this rate so please book early to avoid disappointment.

Email: reservations_rembrandt@sarova.co.uk

Web: www.sarova-rembrandthotel.com

For information on alternative accommodation please visit our website: management-forum.co.uk/accommodation



Programme schedule

Registration and refreshments: 09.00

Drinks reception day one - 17.15 - 18.15

	Day one	Day two
Start	09.30	09.15
Close	17.15	16.00

Three ways to book

management-forum.co.uk info@management-forum.co.uk +44 (0)20 7749 4730

Fees and payment

EARLY BOOKING DISCOUNT Book BEFORE 24 August 2018

£1299.00 + VAT = £1558.80 • £1819.00 + VAT = €2182.80

FULL PRICE Book AFTER 24 August 2018

£1499.00 + VAT = £1798.80 • £2099.00 + VAT = €2518.80

Multiple booking discount for 2nd or subsequent delegates - 15%

£1274.15 + VAT = £1528.98 • £1784.15 + VAT = €2140.98

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1. Invoice which can be paid by bank transfer or credit / debit card
2. Online through our secure website when registering

Exhibition opportunities available

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FEE: The fee includes all meals and refreshments for the duration of the course and a complete set of course materials. If you have any particular requirements please advise customer services when booking.

PLEASE NOTE: Management Forum Ltd reserve the right to change the content and timing of the programme, the speakers, the date and venue due to reasons beyond their control. In the unlikely event that the course is cancelled Management Forum will refund the registration fee and disclaim any further liability.



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New International Conference



Patch Pump and High Volume Injection Systems

Advances in wearable drug delivery

2-3 October 2018 London



Programme to include:

- Emerging trends for novel drug delivery systems
- Understanding the market for wearable large volume injectors
- Assessing injection site pain
- Challenges with high volume and high viscous drug formulations
- Demand for large volume Injectors
- Advances in patch pump technology
- Patch pumps and large volume injectors for volumes from 1 to 20 mL
- Enterprise connected health and wearable drug delivery
- Drug delivery solutions for advanced biologics
- Advances in fill and finish process for biotech products
- Challenges of medication delivery in acute and chronic care settings
- Implications for device design for increasing dose volume
- Low power wireless for drug delivery applications



Chairmen:

Dr Gregory Berman

Independent Consultant and Director,
Cantab Innovations Ltd, UK

"Overall excellent, friendly and lively format and experience"

Pierre Carlotti, VP Strategic
Marketing, Aptar France SAS

With a panel of international speakers

Includes: Interactive discussion sessions



Introduction

The first “wearable” drug delivery device was developed in the early 1960s, a backpack which delivered insulin to the wearer. Smaller, more conveniently wearable, syringe-drivers were developed over the following decades for delivery of insulin. These type of devices are now universally known as insulin pumps and the latest versions are stuck directly onto the skin and controlled wirelessly. Ambulatory syringe drivers and bladder pumps are also used for chemotherapy and analgesia. From the 1980s onwards, wearable passive transdermal patches were developed for dosing a range of drugs such as hormones, analgesics, anti-hypertensives and nicotine to aid smoking cessation. Recently there has been emphasis on development of wearable pumps to deliver larger volumes of biologic drugs, which would be inconvenient to deliver by self-injection. This conference will review the current trends in the market and highlight the latest technology in this fast growing area.

Who should attend

This conference will be beneficial to all those who are interested in learning about, developing or sourcing wearable drug delivery devices. This includes pharmaceutical, medical device and drug delivery companies both large and small. The conference will be of particular interest to R&D, technical, medical, clinical, operating and marketing functions at all levels of management within these organisations.

Conference chairman

Dr Gregory Berman, Independent Consultant and Director, Cantab Innovations Ltd, UK

Expert faculty:

Dr Clare Beddoes, Senior Medical Innovation and Research Consultant, Cambridge Design Partnership, UK

Ian Thompson, Vice President Business Development, Ypsomed, Switzerland

Claire Steed, Nordic Semiconductor ASA, Norway

Neil Williams, Director, Front-End Innovation, Head of Connected Health, Medicom innovation Partner Ltd, a Phillips-Medisize Company, UK

Stephen Augustyn, Head of Medical Engineering, Team Consulting, UK

Assaf Shaked, Senior Director, Device Engineering, SteadyMed Therapeutics, Israel “invited”

Vince Sullivan, Director, Catheter Applied R&D, BD Medical, USA “invited”

Dr Andreas Rothmund, Qualified Person at Vetter Pharma-Fertigung, Germany

Dr Paul Senn, Head Business Development, Sensile Medical, Switzerland

Uri Baruch, Head of Drug Delivery, Cambridge Design Partnership, UK

Chris Muenzer, Senior Device Technology Manager at Novartis, Switzerland

Dr Paul Senn, Head Business Development, Sensile Medical, Switzerland

Robbie Mulligan, Senior Manager Market Development (EU/AP), West Pharmaceutical Services, Ireland

Victoria Morgan, Director of Segment Marketing, Global Biologics, West Pharmaceutical Services, Ireland

A certificate of attendance for professional development will be available to each participant who completes the seminar

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Day one		
09.30	▶	Chairman’s welcome and introduction Dr Gregory Berman , <i>Independent Consultant and Director, Cantab Innovations Ltd, UK</i>
09.40	▶	Emerging trends for novel drug delivery systems • Small volumes vs large volumes – where is it going? • Why the interest in pumps and large volume injectors • Technologies for larger volumes • Avoiding larger volumes Dr Gregory Berman
10.20	▶	Understanding the market for wearable large volume injectors • What are the real drivers behind LVI devices? - Is it technology ‘pull’ – from which products/which diseases? Why? - Disadvantages of technology ‘push’, without understanding the use-case scenario • What is the addressable market for LVI devices actually likely to be? - E.g. How many of the biologics coming through the pipeline will be formulated for SC delivery? - E.g. How many of those SC formulations will be launched to market at volumes >2 ml? • Future trends – enablers or disrupters? Dr Clare Beddoes , <i>Senior Medical Innovation and Research Consultant, Cambridge Design Partnership, UK</i>
10.50	▶	Discussion
11.00	▶	Refreshments
11.30	▶	Assessing injection site pain • Understanding how to measure pain and tolerability during injection and how to interpret the results • Summary of recent clinical investigations of high volume injections • Impact on the design and selection of wearable drug delivery devices Chris Muenzer , <i>Senior Device Technology Manager at Novartis, Switzerland</i>
12.10	▶	Challenges with high volume and high viscous drug formulations • Understand device and formulation landscape (mapping of potential design avenues not existing device landscape) • Selection criteria and considerations for both sourced or internally designed devices • Pitfalls and issues to be aware of with HVHV devices • Future gazing at device development trends Uri Baruch , <i>Head of Drug Delivery, Cambridge Design Partnership, UK</i>
12.50	▶	Discussion
13.00	▶	Lunch
14.10	▶	Demand for large volume injectors • Current trends for large volume injectors above 1ml • An Introduction to YpsoDose for 2-10ml Injection Volumes • YpsoDose wearable injector • YpsoDose: Usability and technical aspects Ian Thompson , <i>Vice President Business Development, Ypsomed, Switzerland</i>
14.50	▶	Advances in patch pump technology • A wearable, discreet, water-resistant and disposable drug administration technology • Design and manufacturing status of Trevyant for Pulmonary Arterial Hypertension • Next generation patch pump concepts Assaf Shaked , <i>Senior Director, Device Engineering, SteadyMed Therapeutics, Israel “invited”</i>
15.30	▶	Discussion
15.40	▶	Refreshments
16.00	▶	Patch pumps and large volume injectors for volumes from 1 to 20 ml • Advantages of the pump and dose technology • Technical aspects of Sensile’s device platforms • Recent progress and developments • Applications Paul Senn , <i>Head Business Development, Sensile Medical, Switzerland</i>
16.40	▶	Panel discussion: The challenges associated with large volume injectors <i>Led by Dr Gregory Berman</i>
17.10	▶	Discussion
17.15	▶	End of day one
17.15 - 18.15		Drinks reception

Day two		
09.15	▶	Review of day one Dr Gregory Berman
09.30	▶	Enterprise connected health and wearable drug delivery • Clinical drivers • Commercial drivers for connectivity and Wearables • Regulatory considerations for connected devices • Stakeholder focused solution design and delivery Neil Williams , <i>Director, Front-End Innovation, Head of Connected Health, Medicom innovation Partner Ltd, a Phillips-Medisize Company, UK</i>
10.10	▶	Advances in the fill and finish process for biotech products • Containers and components • Filling process • Aseptic environment Dr. Andreas Rothmund , <i>Qualified Person at Vetter Pharma-Fertigung, Germany</i>
10.20	▶	Discussion
10.30	▶	Refreshments
11.00	▶	Drug delivery solutions for advanced biologics Keeping up with new drugs in development and the technologies to support them requires a novel approach to drug delivery. With a steady pipeline of biologics and biosimilars poised to come onto the market, pharmaceutical companies need innovative device solutions that can keep up with the drug delivery requirements demanded by advanced biologics. From manufacturing to delivery, wearable large-volume devices should be designed with patient safety and ease of use in mind, but must also suit the sensitivity of the drug product itself. • Trends in today’s drug delivery for biologics • SmartDose® technology platform • Improving the patient experience through an integrated approach Robbie Mulligan , <i>Senior Manager Market Development (EU/AP)</i> and Victoria Morgan , <i>Director of Segment Marketing, Global Biologics, West Pharmaceutical Services, Ireland</i>
11.40	▶	Challenges of medication delivery in acute and chronic care settings – Implications for delivery device design This presentation will cover opportunities and unmet needs in drug delivery. Performance requirements for drug delivery devices in acute versus chronic care settings are described. • Clinical challenges for chronic versus acute care settings • Patient transition from acute care to step down facilities; long-term care and home care settings • Commercial, ambulatory pump drug delivery systems; pros and cons of current devices • Opportunities for improving therapy • Examples include -Wearable devices, Patient Controlled Analgesia (PCA), Drug delivery via indwelling venous access devices (e.g. PICC’s, CVCs, Midlines) Vince Sullivan , <i>Director, Catheter Applied R&D, BD Medical, USA “invited”</i>
12.20	▶	Discussion
12.30	▶	Lunch
14.10	▶	Planned changes to the 11608 series of ISO standards and their implications for wearable injectors • How are large volume injectors different to infusion pumps • Important changes proposed in the updates to the 11608 series • How these changes will impact on your device design • Verification of device performance Stephen Augustyn , <i>Head of Medical Engineering, Team Consulting, UK</i>
14.50	▶	Low power wireless for drug delivery applications • Nordic Semiconductor is the #1 provider of low power wireless solutions • Bluetooth Low Energy is changing healthcare • Addressing market requirements on power, cost and size • Proof-of-Concept for a highly integrated low power and low cost solution • Low power cellular, the next evolution for wearable drug delivery systems Claire Steed , <i>Nordic Semiconductor ASA, Norway</i>
15.30	▶	Panel discussion: Large volume injections: the opportunity for connected devices <i>Led by Dr Gregory Berman</i>
15.50	▶	Chairmen’s closing remarks
16.00	▶	End of conference and refreshments

