

## 2nd International Conference on *Ophthalmology and Vision Science*

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### **Intravitreal Preparations: Industry insights from Drug Product Development**

Intravitreal drug delivery represents a critical therapeutic approach for treating a range of sight-threatening ocular diseases, including age-related macular degeneration and diabetic retinopathy. However, developing intravitreal parenteral preparations presents unique technical challenges that can impact drug safety, efficacy, and patient compliance. This talk will explore key issues encountered during drug product development of pre-filled syringes for ocular use, including formulation and stability challenges. The presentation will also cover the technical difficulties posed by handling and filling small-volume doses, particularly with respect to visual inspection, as well as dosing accuracy depending on fill volume. Furthermore, the selection of appropriate container closure systems will be examined, considering factors such as device performance, stability implications, and overall product quality. A case-study about particulate matter related to choosing the adequate primary packaging material for IVT use will be presented. Attendees will gain insights into overcoming the technical and regulatory hurdles associated with designing safe and effective intravitreal drug products.

#### **Learning objectives:**

- Understand technical key issues during drug product development and manufacturing of intravitreal products
- Understand key requirements for the selection of primary packaging containers related to product stability and product quality
- Understand regulatory requirements for intravitreal drug products

#### **Biography**

Prof. Dr. Andrea Allmendinger is a pharmaceutical scientist at Ten23 Health, Switzerland, with expertise in drug product development, formulation science, and pharmaceutical technology. Her work focuses on advancing innovative solutions for biopharmaceutical development and delivery.