#### **EVALUESERVE**



# Evolving surgical technologies in Ophthalmology:

Strategic perspectives, trends and future outlook

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## Key pillars of surgical technologies in Ophthalmology

#### **Benefits**



#### Improved Efficiency:

By streamlining the surgical workflow, these systems can help improve overall efficiency in the surgical process



#### **Enhanced Precision and Safety:**

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Advanced technologies such as imageguided navigation can help improve precision & lower the risks in surgical procedures leading to enhanced patient safety

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#### **Better Data Management:**

Interconnected workflow systems can help facilitate better data management, including patient data, surgical outcomes, and more

#### Interconnected Workflow Systems

These systems integrate preoperative, intraoperative, and postoperative phases of the surgical process, streamlining communication and reducing the risk of errors

#### Advanced Visualization and Imaging Technologies

These technologies provide highquality imaging of the eye, enabling surgeons to plan and execute surgeries with greater accuracy



#### Minimally Invasive Techniques

These techniques involve smaller incisions and less tissue disruption, resulting in faster recovery times and fewer complications for patients

#### Innovative Surgical Tools and Devices to perform complex procedures

These devices, such as lasers and microscopes, are designed to enhance surgical precision and efficiency, and enable surgeons to perform complex procedures with greater ease and safety



### **Interconnected Workflow Systems**



## **Minimally Invasive Techniques**



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## **Advanced Visualization & Imaging**



Next gen diagnostic platform - All-in-one office

Pipeline

### **Innovative Surgical Tools & Devices**





## **Competitive & Future Outlook**



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## **Competitive Outlook**



Alcon

 Carl Zeiss has developed flagship platforms and holds pioneering position in the market. While other players like Alcon & J&J Vision also have their own digital platform in place but not at a flagship level like Zeiss
The company is actively investing in new technologies to maintain its position

- To integrate its wide range of surgical equipment, Alcon has developed Alcon Vision Suite
- The trend for Alcon is expected to be towards continued investment in these areas, as well as developing workflow solutions and innovative surgical tools



• J&J Surgical Vision has a long way to go to compete with established player like Zeiss in digital ophthalmology space

• Unlike its vision care segment's well-established portfolio, company's surgical vision division has very few options to choose from, although they are premium in nature



- Bausch has a relatively lower market share and R&D investment in ophthalmic surgical technologies compared to other major players
- Post its spin off from Bausch Health, Bausch + Lomb started increasing its R&D investment mainly towards surgical microscopes and eyeTELLIGENCE platform



Zeiss's top 6 target markets in surgical ophthalmology

### **Current Trends vs. Future Outlook**



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Thank you!