

The **Augmented Reality in Orthopedic Surgery Case Reports** section of the [Orthopedic Surgery Case Reports Journal](#) focuses on the clinical application of augmented reality technologies in modern orthopedic practice. This section publishes **case reports, case series, technical notes, and innovative surgical techniques** that demonstrate the real-world use of AR to enhance surgical precision, visualization, and decision-making.

As an **open-access, peer-reviewed journal**, the Orthopedic Surgery Case Reports Journal is committed to disseminating high-impact, clinically relevant research that advances **technology-driven orthopedic surgery**. Augmented reality enables surgeons to overlay digital anatomical data onto the operative field, improving spatial orientation and reducing intraoperative uncertainty.

This journal section highlights the integration of AR with **preoperative imaging, virtual surgical planning, navigation systems, and wearable devices**, offering improved accuracy in implant positioning, fracture reduction, deformity correction, and minimally invasive orthopedic procedures.

### **Scope of Augmented Reality in Orthopedic Surgery**

This section covers a broad spectrum of orthopedic subspecialties and applications, including:

#### **Trauma and Fracture Surgery**

- AR-assisted fracture reduction and fixation
- Real-time visualization of complex fracture anatomy
- Improved alignment and implant placement

#### **Joint Reconstruction and Arthroplasty**

- Augmented reality-guided joint replacement
- Implant positioning and alignment optimization
- Minimally invasive arthroplasty using AR visualization

#### **Spine Surgery**

- AR-guided pedicle screw placement
- Spinal deformity correction using augmented navigation
- Enhanced accuracy in complex spinal procedures

#### **Sports Medicine and Arthroscopy**

- Augmented visualization during arthroscopic procedures
- AR-assisted ligament reconstruction
- Precision-guided sports injury management

#### **Education, Training, and Surgical Planning**

- AR-based orthopedic surgical simulation
- Preoperative planning and rehearsal
- Intraoperative guidance and workflow optimization

#### **Types of Articles Accepted**

The Orthopedic Surgery Case Reports Journal accepts:

- Case Reports
- Case Series
- Technical Notes
- Brief Correspondence
- Surgical Technique Articles
- Editorials and Commentary

All published content is provided with **unrestricted open access**, supporting global knowledge exchange and continuous advancement in orthopedic surgery.

### **Journal Focus**

With a forward-looking and technology-oriented perspective, the **Augmented Reality in Orthopedic Surgery Case Reports** section offers insights into:

- Improved surgical accuracy and safety
- Reduced operative time and complications
- Enhanced surgeon confidence and training
- Better patient outcomes through precision surgery

This dedicated journal page serves as a platform for orthopedic surgeons, researchers, and digital health innovators to present clinical experiences and emerging evidence in **augmented reality–assisted orthopedic care**.

### **Online Submission**

Authors are requested to submit their manuscripts using our Online Manuscript Submission Portal: <https://www.orthosurgerycasereports.org/submit.html> (or) may also submit via email to: [editor@orthosurgerycasereports.org](mailto:editor@orthosurgerycasereports.org).