Omni™ Suite

INTELLIGENT OPERATING ROOM

Transforming the Operating Room

Omni Suite is an intelligent integrated operating room, removing certain manual interactions with complex software and replacing it with automation driven by artificial intelligence* (object recognition). Our platform automates the collection of data, providing real-time access to workflow metrics to support data-driven decision making for OR workflow optimization. We are removing unnecessary technology and redundant hardware to create valuable innovation that brings tangible benefit to our customers.

- **A** Object Recognition Cameras
- **B** Claro™ Surgical Lights
- **C** OmniSight™
- **D** OmniLink™
- **E** Volar™ Equipment Booms

Did you know?

- ✓ OR time costs approximately $100 per minute.[1]
- ✓ The most common reason for delay is surgeon and anesthesiologist unavailability and lack of patient preparedness.[2]
- ✓ 93 minutes is the average operating time for a total hip arthroplasty and despite technological advancement, this hasn't changed in about two decades.[3]

With ZBEdge, we're accelerating insights through connection and automation. Omni Suite delivers on this promise by automating key workflow events and enabling care teams drive OR utilization and efficiency in real time.

ZBEdge™

by Ⓩ ZIMMER BIOMET

SCAN HERE!
to learn more

Artificial Intelligence

Omni Suite's AI works through object recognition technology. Cameras placed strategically within the OR recognize key events throughout the surgical episode and automates surgical workflow.

Key Workflow Events Captured

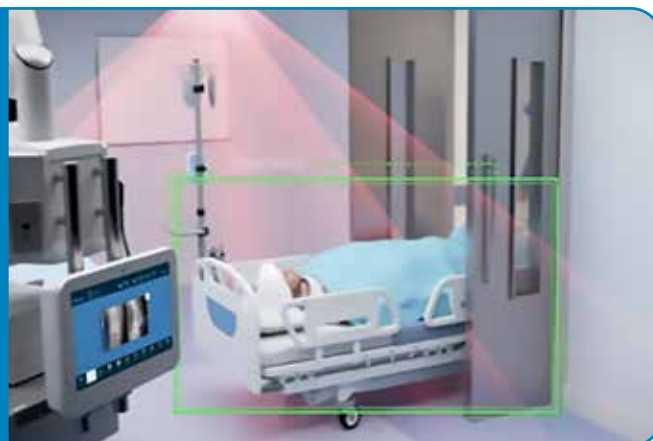|		
Patient Entry	Display Configuration	Patient Exit
Pre-Anesthesia Checklist Completion	Surgery Start	Post-Op Checklist Completion
Anesthesia Start	Door Opening Count	Cleaning Start
Surgical Timeout Completion	Surgery Stop	Cleaning Stop

Artificial Intelligence involves using computers to do things that traditionally require human intelligence.

Machine Learning is a branch of artificial intelligence (AI) and computer science which focuses on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy. Object Recognition utilized machine learning is a branch of AI that involves learning patterns from examples of data.

Do the Math

If a hospital with 10 OR suites with 3 procedures in each suite daily, reduces inefficiency by 5 minutes per procedure at a rate of $100 per minute[1], that hospital with save:

10 suites	
3 procedures	**$15,000** daily
5 minutes	**5** days a week
X $100 per minute	**X 52** weeks per year
$15,000 per day	**$3.9** million

OmniSuite has not been specifically evaluated to save $100 per minute; these figures represent a fictitious scenario based solely on published, estimated OR costs.

ZIMMER BIOMET
Moving You Forward.™

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*Artificial Intelligence (AI) was developed to support the existing administrative tasks to enhance the efficiency of the OR workflow. The AI does not function to support any clinical decisions.

1. Garbey, M., Joerger, G., Huang, A., Salmon, R., Kim, J., Sherman, V., Dunkin, B., & Bass, B. (2015). An intelligent hospital operating room to improve patient health care. Journal of Computational Surgery, 2(1). https://doi.org/10.1186/s40244-015-0016-7 **2.** Wright, J., et. al. (2010). Improving on-time surgical starts in an operating room. Canadian Journal of Surgery, 53(3), 167–170. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2878988/pdf/1530167.pdf **3.** Cantrell, W. A., Samuel, L. T., Sultan, A. A., Acuña, A. J., & Kamath, A. F. (2019). Operative Times Have Remained Stable for Total Hip Arthroplasty for >15 Years. JBJS Open Access, 4(4), e0047. https://doi.org/10.2106/jbjs.oa.19.00047