

Harmonised Operating Rooms: The Real Impact of PACS and HIS Integration

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Imagine a surgeon halfway through a complex procedure who needs to check the patient's pre-operative CT scan. In most ORs, someone has to leave the sterile field, log into a computer, search the PACS system, find the images, and describe what they see. Five minutes wasted. Workflow disrupted. Focus broken.

Now picture this: the surgeon taps a control panel, and within seconds, the CT scan appears alongside live surgical video—no waiting, no interruptions, no sterility breaks.

That's the difference harmonious integration makes. When your OR Integration system connects seamlessly with PACS (Picture Archiving and Communication System), HIS (Hospital Information System), and VNA (Vendor neutral archival), it creates one smooth workflow where patient data streams automatically from HIS, medical images pop up instantly from PACS, and surgical videos and images save back correctly without manual steps.

This magic happens through interoperability—PACS speaks DICOM, HIS uses HL7/FHIR, and the OR integration platform acts as the translator ensuring perfect communication between systems. Hospitals see 20-30 minutes saved per surgery, fewer errors, relieved cognitive load on surgeons, and automatic documentation that just works.

But not all integration platforms deliver this. Here's what to demand when choosing yours:

- Two-way communication: Pulls from and pushes data back to PACS and HIS automatically—no gaps.
- Standards compliance: Full HL7/FHIR and DICOM support for universal compatibility.
- Smart patient matching: Links cases to records flawlessly, even with varying ID formats.
- Flexible configuration: Adapts to your existing setup without forcing changes.
- Invisible to users: Works silently so teams focus on patients.
- GRACEFUL (Gravity Recovery and Climate Experiment) error handling. Keeps surgery flowing during network issues.

Start with clinical-IT collaboration, demand demos on your systems, get similar-hospital references, and pilot one OR first. The right platform builds the foundation for AI, robotics, and tomorrow's surgical innovations—positioning your hospital as a leader in connected care. Ready to harmonise your ORs? Esbee Dynamed's CREA platform delivers seamless PACS and HIS integration across diverse hospital setups. Contact us for a no-obligation assessment of your current infrastructure and a customised demo—we'll show exactly how it works with your systems.

Esbee Dynamed specialises in OR integration and connected surgical instrument tracking solutions. To learn how we can support your operating theatre, contact our team.

Write to us at info@esbeedynamed.com for more info.