



Ibermutua's interactive collaboration solution for surgeons

User

Ibermutua's Integral Service Center for the territory of Castilla León and La Rioja in Valladolid.



Ibermutua is a mutual insurer partner of Spain's Social Security system and its missions include treating occupational accidents and diseases and also monitoring short-term disability resulting from non-occupational illnesses and accidents.

The Castilla y León and La Rioja Comprehensive Service Centre has a newly opened site in Valladolid which hosts a major outpatient surgery unit featuring integrated operating theatres and a surgical day hospital area. It provides healthcare coverage to a protected group of over 138,000 employees from more than 12,330 companies.

Ibermutua has some 120 of its own facilities throughout Spain, protects a group of more than 1.6 million employees and delivers coverage to some 170,500 companies, making it the third largest mutual insurer partnering the Social Security system by market share in the country.

Challenges

Medical telecollaboration between specialists for surgeries in occupational accidents and diseases.

E-learning distance education and training for healthcare practitioners.

Management of images generated in the operating room or in the hospital information system for local or remote viewing.

Repository of cases for diagnostic and teaching purposes.

Remote specialist collaboration which enables best practice, diagnosis and second opinions when performing surgery in the organisation's operating theatres by using image, video and audio tools to help achieve this goal, particularly in units specialising in occupational accidents and diseases and including:

- Comprehensive arthroscopic surgery
- Hand surgery and microsurgery
- Plastic and reconstructive surgery
- Instrumented pain management procedures

Providing e-learning distance education and training for healthcare practitioners from other facilities in surgery sessions featuring interactive collaboration between participants so that they can remotely guide other people in their learning or in their personal and professional development in specific interventions and also in using new procedures or techniques.

User-friendly handling of any image source generated in the operating theatre or from the hospital information system including medical instrumentation, overhead and lamp cameras, vital signs, diagnostic tests, etc. for viewing on local screens and transmission to others in order to actively collaborate in the medical procedure.

Building a repository of classified cases for later querying and retrieval for diagnostic or teaching purposes.

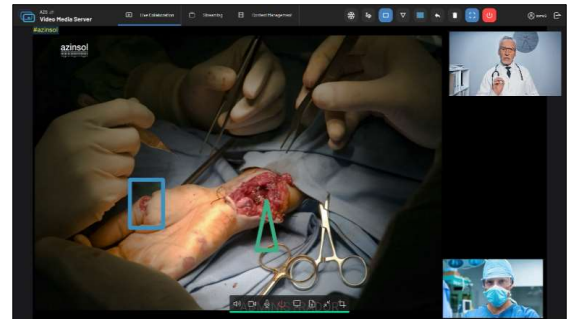
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Solution

Operating Room integration solution that enables interactive management and support of collaboration between professionals, with videoconferencing in private virtual meeting rooms and interactive image additions for mentoring.

Azinsol's operating theatre integration solution "MVM Operating Room Video Manager" has been used to capture, distribute and manage images produced in the operating theatre. It is powered by the "MVM Live Collaboration" module which allows interactive support by combining video, audio, images and relevant contextual information coupled with the application of interactive add-ons such as pointing with a laser or drawing freehand annotations on the visual field which enhances the shared and two-way real-time control of the session.

The MVM solution has been integrated with the Pexip videoconferencing platform equipped with Virtual Meeting Rooms (VMR) with managed node hosting on its own servers. This ensures the security and privacy of the meeting along with the image, video and audio quality required for clinical practice. The Pexip Infinity platform makes it possible to generate customised VMR for each event, allowing the mentor to connect to a secure web and intervene using interactive tools on the images broadcast from the operating theatre, combining diagnostic quality images and outstanding two-way communication.



Results

The combination of physical, logical and communication elements facilitate medical telecollaboration. Participants interact and communicate as if they were in the room together, enabling increased clinical efficiency.

The solution rolled out in Ibermutua's operating theatres is made up of physical elements meeting security and environmental standards in line with specific needs (processor, high-resolution touch control and display screens, peripheral switching, capturing and scaling devices, motorised ambient cameras and wireless audio, etc.); logical elements enabling integrated and collaborative management between professionals, and telecommunication elements delivering interactivity through videoconferencing and tools for sharing images between the operating theatre and the remote expert professional or mentor. Any medical practitioner in Ibermutua's corporate network or at other healthcare facilities can support the surgery by providing specific client software featuring audio and video intercommunication tools and interactive image add-ons for diagnostic assistance.

Feedback

"The system is exceptionally powerful and versatile yet also extremely user-friendly and intuitive."

"It provides us guidance and training in specific operations and also in using new procedures and techniques."

"The Azinsol + Pexip solution is a simple and effective tool for routine operating theatre procedures, including distributing medical sources, streaming, recording and mentoring." "The system is exceptionally powerful and versatile yet also extremely user-friendly and intuitive."

"We are very happy with it. It's ideal for collaboration sessions with specialists from our group or other healthcare facilities and provides us with guidance and training in specific operations and also in using new procedures and techniques."

Dr. Jesús Baeza López
Ibermutua's Healthcare Management Director in Valladolid