

4REMOTE Health

Use case: Assisted surgery



4REMOTE Health facilitates assisted surgery, allowing expert surgeons and other specialists in the surgical field to advise surgeons and other health professionals operating in the operating room in real time. All this is integrated with signal emitting operating room devices (e.g. laparoscopy, operating room cameras, monitored constants, etc.).

4REMOTE Health:

Shared knowledge between specialist teams in different locations, allowing advice to other professionals without the need to physically access the operating room and facilitating access to best practices from anywhere in the world remotely, thanks to real-time interaction.

- TELE-PROCTORING: Remote monitoring and advice from an expert surgeon to a surgeon in training, supervising the techniques or procedures carried out in the operating room.
- MASTER CLASS: Training to surgeons in training or residents, attending remotely to operations performed by an expert surgeon in the operating room.

1

Multiple video sources integrating the clinical and image equipment of the operating room (laparoscopy, zenithal camera, monitors, etc.) so that all the assistants, inside and outside the operating room, can work collaboratively and have an integral vision of the operations.

2

The surgical team outside the operating room sees what the operating room team sees in real time and can make accurate video indications, which are visualized in real time by all connected participants.

3

4REMOTE Health made possible the first collaborative surgery performed in the world with 5G in MWC2019 in Barcelona and Shanghai, with the collaboration of Hospital Clínic and the company AIS Channel

4REMOTE Health

Functions

- Drawings and text on snapshots and video
- Augmented Reality Pointers
- Recording of evidence (video, audio and photo)
- Remote-controlled zoom and flashlight
- Remote control of fixed cameras
- Real-time translation (chat and voice)
- Screen sharing
- Agenda - Calendar of scheduled sessions
- Multi-user sessions
- Multi-device
- Multi-session
- Sessions with external users by invitation
- Selectable Audio/Video sources
- Secondary "slave" camera
- Mosaic view of connected video feeds
- Integration with clinical operating room equipment (laparoscopy, cameras...)
- Cloud and OnPremises deployment
- Encrypted communications
- Can be integrated with customer systems
- LDAP Integration
- Session log and evidence
- Instant messaging
- Multi-screen

Advantages:

- Shorter response times
- Reduced travel and costs
- Improved traceability and monitoring of work
- Generation of evidence
- Remote validations
- Support and training of medical personnel
- Better patient experience
- Improved attention quality and fewer errors
- Collaborative work - knowledge sharing
- Increased efficiency of the doctor-patient ratio

