

# Accelerate Your Surgical Skills with Telementoring

**MedPresence: Our Secure, Cost-Efficient and Sustainable Model of Surgical Care**



## The Future of Surgical Education

### What Is Telementoring?

Real-time access to clinical consultations, technical support, training, clinical education and best practices are more important than ever before, but physically bringing experts into a procedure room is not always possible, feasible or desirable.

Surgical telementoring is intended as a complementary measure for the experts providing guidance to a less experienced learner from a remote location. By using information and knowledge technologies without directly controlling the surgery locally, experienced mentors help surgeons develop their surgical skills to a greater level of proficiency for complex surgeries. The technology is reliable and is ready for implementation at most institutions.

“[...] 78.6% [of asked surgeons] felt that telementoring would be useful to their practice [...]”<sup>4</sup>



## Connecting Health-Care Teams within and beyond the Hospital Walls

### Proven Benefits of Mentoring Virtually

“ Perceived benefits of surgical telementoring include improved surgical exposure, increased extent of tumor resection [...]”<sup>1</sup> ”

“ Telementoring may be an effective means of improving adoption of new surgical techniques, ultimately improving patient care.”<sup>2</sup> ”

“ MedPresence enabled me swap between images from multiple sources with complete spatial and situational awareness, without any significant lag or delay in communication.”<sup>3</sup> ”

**Dr. Vitor Mendes Pereira (Toronto, Canada)**

“ [...] 78.6% [of asked surgeons] felt that telementoring would be useful to their practice, and 69.8% thought it would benefit their hospitals [by] [...] learning new techniques (46.5%) [and by giving] intraoperative assistance with unexpected findings (39.0%).”<sup>4</sup> ”

“ Lower exposure rates by enabling experts to consult virtually: Opening the door of the operating room is associated with increased environmental contamination.”<sup>5</sup> ”

“ It has been shown that telestration-supplemented guidance may reduce the duration of the telementored session by more than 30%.”<sup>6</sup> ”

“ [...] due to its shorter surgery time and shorter hospital stays, the use of mentoring is anticipated to be more economical.”<sup>7</sup> ”

<sup>1</sup> <https://pubmed.ncbi.nlm.nih.gov/27010229/>

<sup>2</sup> <https://pubmed.ncbi.nlm.nih.gov/26698191>

<sup>3</sup> <https://jnis.bmj.com/content/early/2020/12/20/neurintsurg-2020-017053>; Emanuele Orru', Miklos Marosfoi, Neil V Patel, Alexander L Coon, Christoph Wald, Nicholas Repucci, Patrick Nicholson, Vitor M Pereira, Ajay K Wakhloo

<sup>4</sup> <https://www.ncbi.nlm.nih.gov/pubmed/27444835> Glenn IC., Bruns NE., Hayek D., Hughes T., Ponsky TA. – 21 July 2016

<sup>5</sup> <https://doi.org/10.1016/j.ajic.2018.03.005>

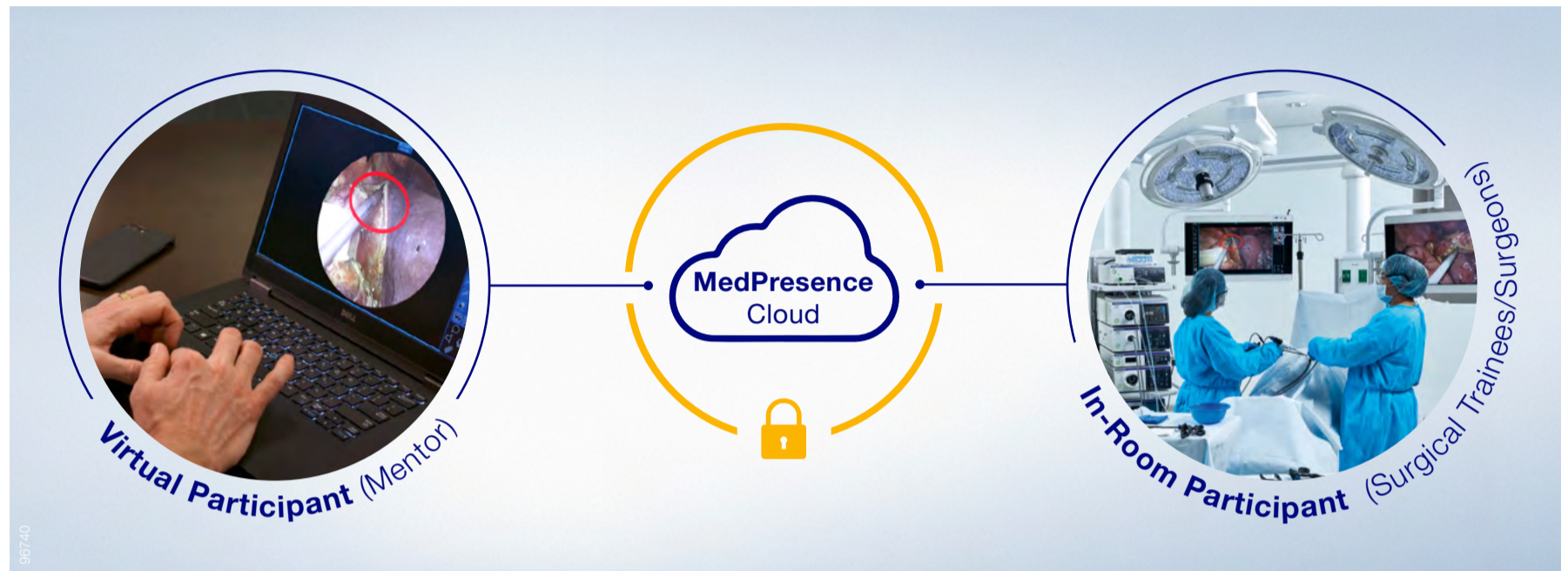
<sup>6</sup> <https://www.sages.org/publications/guidelines/educational-implications-for-surgical-telementoring-a-current-review-with-recommendations-for-future-practice-policy-and-research>

<sup>7</sup> <https://scielo.conicyt.cl/pdf/abioeth/v24n2/1726-569Xabioeth-24-2-00167.pdf>

## MedPresence: Welcome to a World of Expertise

### Secure Live Telementoring

MedPresence is a virtual-presence clinical collaboration solution that enables teams to quickly bring needed expertise into a procedure room from across the organization, around the world and at any time virtually.



#### Clinical Benefits



- **Peer-to-peer consultancy:** Access to external consultants and their expertise, resulting in improved health outcomes.
- **Optimized infection control** by limiting the number of experts in the physical procedure or operating room (OR).
- Utilization of live or saved MedPresence sessions **to train, educate and improve procedural techniques.**
- Support of **well-informed decision-making** in a critical procedure thanks to an expert opinion via virtual presence.

#### Economic Benefits



- Enabling new collaboration models resulting in **efficient problem-solving** and **increased productivity.**
- **Reduced liability and costs** associated with patient infection and longer lengths of stay by limiting number of individuals in the OR.
- **Reduced travel costs** for subject-matter experts needed in complex procedures.
- Gaining **access to technical support** virtually and reducing the OR downtime.

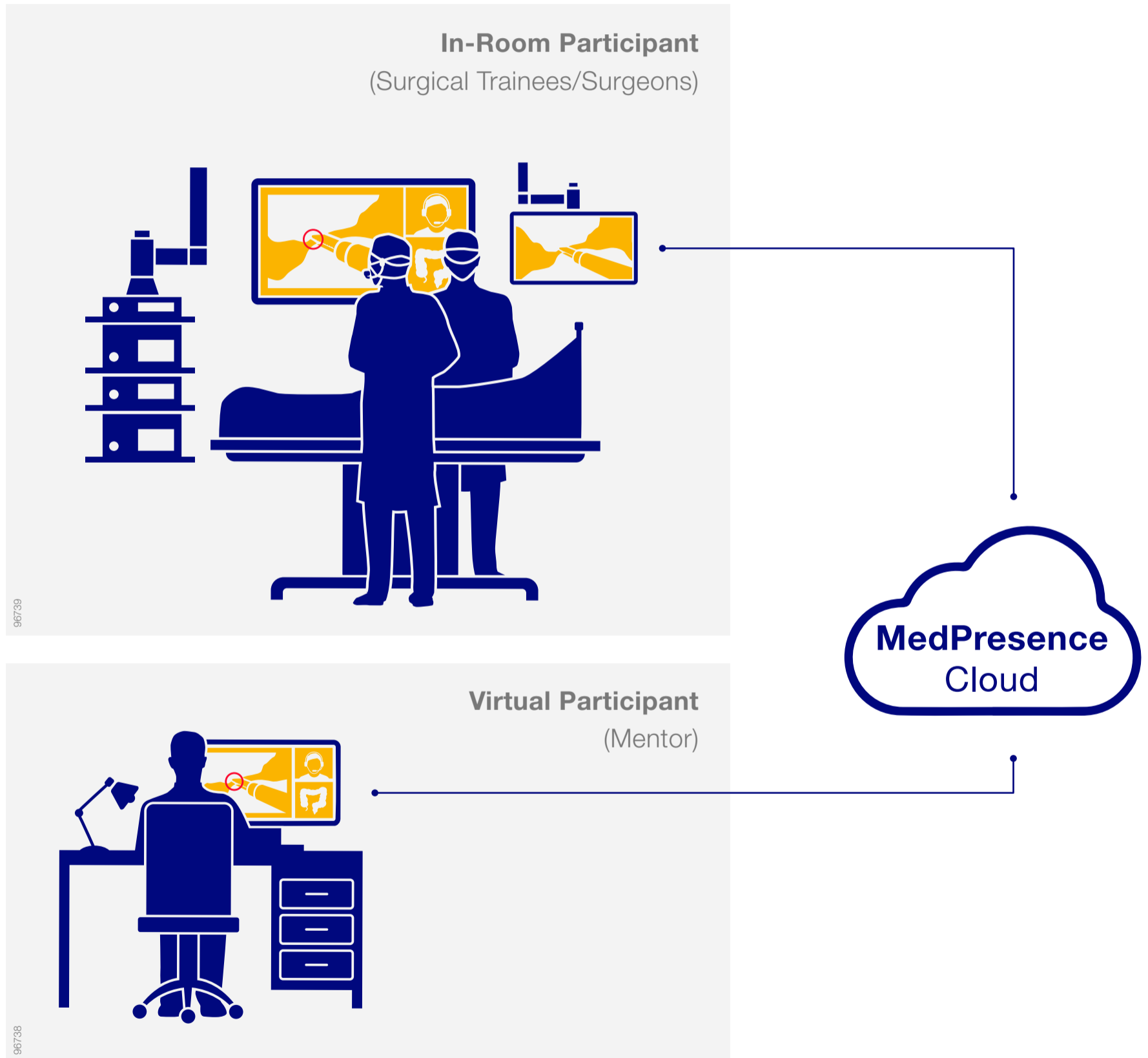
#### Security Benefits



- **End-to-end security** that includes encryption of MedPresence video streams (AES 256 encryption) and **secure storage of MedPresence collaborators' data.**
- Industry-expert-tested solution to help **protect against unauthorized access and use of information** (Black Hills Information Security).
- **Session access only for authorized participants** (e.g. multi-step authentication scheme, AD integration).

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## The Clinical Workflow



As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications, accessories and service offerings may be required.

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