



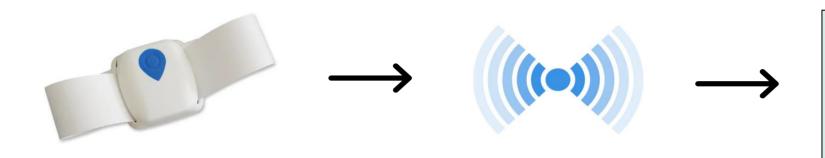
THE IMPACTO OF A SURGICAL GEOLOCATION SYSTEM ON HUMANIZATION AND HEALTHCARE MANAGEMENT

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<u>OBJECTIVE</u>: Describe a **geolocation system** in the operating room and analyze its impact on humanization and healthcare management.

METHODS



- 1. Wearing the **wristband** upon arrival at **admission**
- 2. **Bluetooth** connection to a series of beacons (Angle of Arrival) distributed at different points along the surgical pathway.
- Location updates.
- Real-time information on screens for healthcare staff and family members (personalized QR code).
 - → Entrance to the operating room
 - → Start of the procedure
 - → End of the procedure
 - → Exit to the recovery unit

<u>RESULTS</u>





X

NUMBER OF PERFORMED SURGERIES AVERAGE
OPERATING ROOM
TURNOVER

TIME BETWEEN
PROCEDURES AND
OPERATING ROOM
OCCUPANCY



- Identification of weaknesses in the surgical process.
- A Reduction of anxiety among family members regarding the surgery.

CONCLUSIONS

• It is a tool that could **reduce parental anxiety** by providing up-to-date, real-time information on the status of the procedure, as well as **improving operating room performance and utilization** by identifying potential areas for improvement during data analysis.