

SIMULATION-BASED MIS EDUCATIONAL PROGRAM DEVELOPED IN A PEDIATRIC HOSPITAL IN ARGENTINA

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BACKGROUND

Simulation-based training is an essential component of surgical education, allowing the acquisition of MIS skills in a safe environment without risk to patients. A **structured MIS training program** was developed at the Garrahan Hospital Simulation Center (CeSim GH) and incorporated into the pediatric surgery residency curriculum.

OBJETIVE

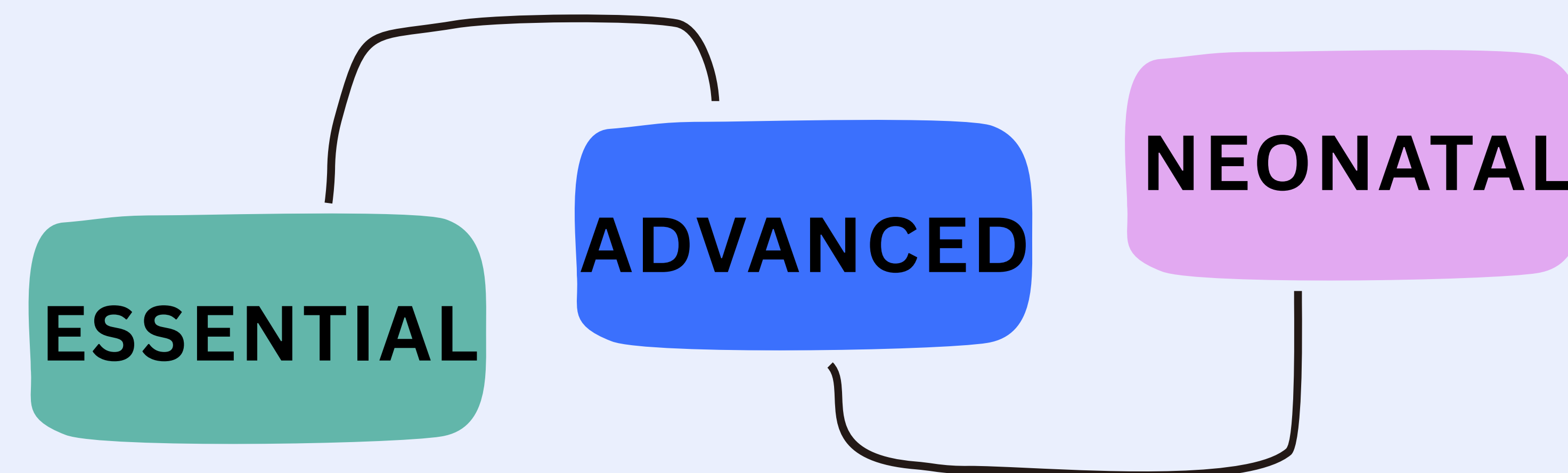
To present the **development** and **outcomes** of the Hands-On MIS training courses conducted at the CeSim GH.

CONCLUSION

The Hands-On MIS program at CeSimHG provides **structured progressive** training **adapted** to each learner's level. Simulation-based MIS training integrated into residency provides **structured skill acquisition** before operating on patients and **improves surgical performance**.

METHODOLOGY

Educational program was structured in **3 progressive stages**:

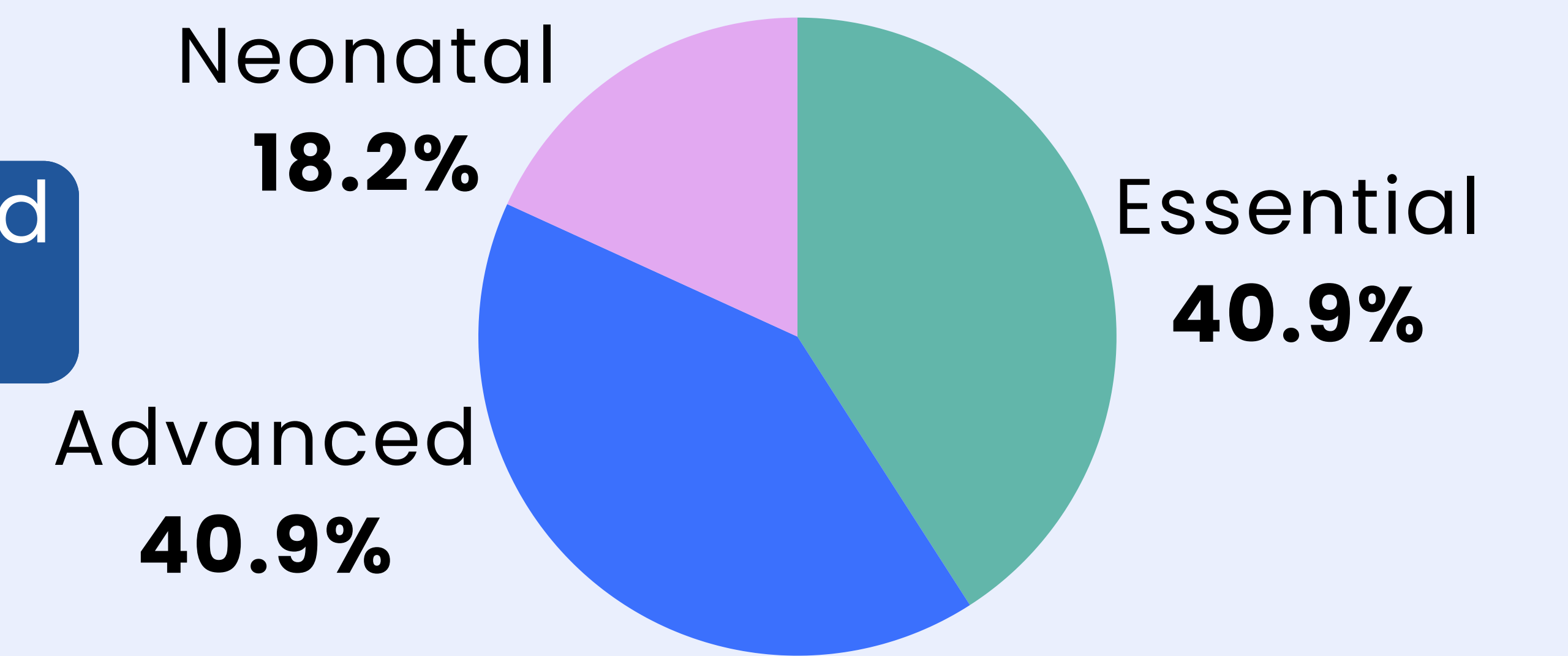


- Includes **supervised** exercises
- Individual training and team work
- **Formative feedback**
- Pre- and post-course evaluation with **debriefing**.
- Development and validation of **low-cost simulation models**
- **Telesimulation** (introduced in **2019**)

RESULTS

40% completed
all 3 levels

220 COURSES (2013–2025)



920 PARTICIPANTS
2701 INDIVIDUAL WORKSTATIONS
1036 HOURS TELESIMULATION

Surgeons
54%

Residents
46%

National
60%

International
40%



FOLLOW-UP SURVEY

4 months after^F training (n=100)

