Teaching project in surgical instrumentation of Lumbar Arthrodesis Multilevel by Clinical Simulation

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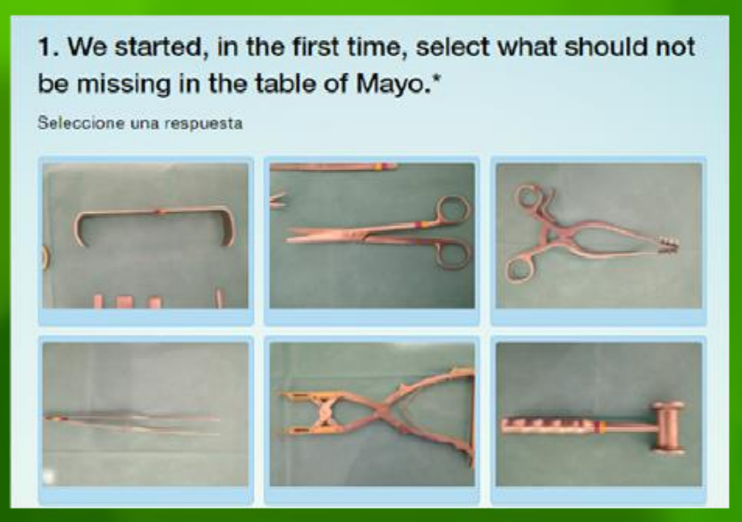
Objective: by means of the Clinical Simulation we try to favor the acquisition of nursing competences in surgical instrumentation necessary in the real practice and to diminish the incidence of the stress in the surgical area in the novel personnel. This learning has as a priority the safety of the patient, in the globality of the term.

Design: randomized experimental study, control group pre-test open and parallel post-test, analyzing a sample of 30 students (novice surgical nurses), 15 of which will perform simulated sessions plus a subsequent debriefing session and 15 will not perform any type of simulation. Both groups will attend the formative classes regulated by the educational center. The main variables will be acquisition of the necessary skills in ALM instrumentation, anxiety, stress.

Material: virtual Platform with all instrumental and qüestions to resolve. Competency and skills questionnaire based on surgical instrumentation ALM the Demand-Control (DC) model scale from Karasek in the stress assessment



Results: stress decreases by 50% in the junior student and acquisition of skills increases in each session.

Conclusions: So far, the virtual instrumentation tool allows to perform a trial-error necessary for solid learning.
The stress factor decreases.
The learning system complemented with debriefing is a tool that enhances the technical skills and non-technical skills necessary to face an intervention with an optimal level.
Increase the confidence level of both the student and the classmates.
There is an opportunity to highlight key points of the intervention.