

SI116: ASSESSMENT OF A RABBIT MODEL FOR THE PEDIATRIC MINIMALLY INVASIVE SURGERY (MIS)

Blanca Fernández-Tomé*¹, Laura Correa¹, Idoia Díaz-Güemes¹, Silvia Enciso¹, Araceli García-Vázquez², Indalecio Cano², Francisco Berchi³ and Francisco Miguel Sánchez-Margallo¹

E-mail: Blanca F. Tomé — bfernandez@ccmijesususon.com

¹Minimally Invasive Surgery Centre Jesús Usón, Ctra.N-521, Km 41,8 10071. Cáceres, Spain; ²Hospital 12 de Octubre, Avenida de Córdoba s/n, 28041 Madrid, Spain; ³Infancia sin fronteras, Av. Leopoldo Calvo - Sotelo Bustelo, nº 6 LOCAL 28224 - Pozuelo de Alarcón, Madrid, Spain

Background The porcine model is the most widely used animal model for laparoscopic training. However, in pediatric surgery, an experimental setting with smaller animals could improve the training conditions. We present the results of the validation of the rabbit model for training in pediatric minimally invasive surgery (MIS).

Materials and methods At the Minimally Invasive Surgery Centre Jesús Usón from Cáceres, Spain, 26 pediatric surgeons underwent training sessions on rabbit under the supervision of experienced tutors.

All the participant performed four laparoscopic techniques in New Zealand white rabbit: gastrectomy, Pyloromyotomy, Nissen fundoplication and nephrectomy. The inclusion of the rabbit in pediatric laparoscopic surgery courses, the adequacy of this model for the surgery techniques and the acquisition of skills after the completion of the course was evaluated by the participants. The questionnaires were composed by items rated on a 5-point Likert scale.

Results Participants rated the adequacy of the rabbit in the training programs with $4,8 \pm 0,31$ and the adequacy for surgery techniques was $4,42 \pm 0,76$ for gastrectomy, $4,11 \pm 0,38$ for Pyloromyotomy, $4,32 \pm 0,69$ for Nissen fundoplication and $4,17 \pm 0,43$ for nephrectomy. Finally the acquisition of skills obtained a score of $4,89 \pm 0,36$.

Conclusions On the basis of our preliminary results, rabbit is a good training model in pediatric MIS. In this model it is possible to perform procedures in a similar way as would be done in a real pediatric patient.

Key words training model, minimally invasive surgery (MIS), rabbit model, pediatric surgery