Title: VIDEO ASSISTED APPENDICECTOMY BY SINGLE TRANSUMBILICAL ACCESS COMPARED TO LAPAROSCOPIC AND CONVENTIONAL AS A PROPOSAL FOR INITIAL APPROACH TO ACUTE APENDICITIS

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Abstract

In spite of several retrospective, prospective and meta-analysis studies compared laparoscopic appendectomy with open appendectomy, controversy still persists about the best surgical technique for acute appendicitis treatment. Transumbilical laparoscopic-assisted appendectomy aims to combine the advantages of LA and OA. The study objective was to retrospectively compare these three techniques in adults and adolescents, configuring an original proposal in literature.
232 patients were included in the research. The AVATU was performed in 579 patients, LA in 405 and OA in 248. The variables early and late postoperative complications and pain, operative time, hospital stay and return to normal activities were analyzed. Causes and incidence of conversion were compared, and also were complicated AA, in women and obese patients in relation to variables mentioned above. Mean operative time was 51,7 minutes for TULAA, 75,5 minutes for LA and 59,8 minutes for OA with statistical significance. Patients who underwent OA had more postoperative pain, longer hospital stay, later return to normal activities and more postoperative complications. There was no statistically significant difference between TULAA and LA in relation to these variables. 10,4% of LA cases were converted to OA and 13,6% of TULAA cases were converted to another procedures. LA demanded greater operative time in obese, in complicated forms of AA and in women compared to TULAA, and yet, longer hospital stay in females. The interpretation of results can endorse the recommendation of this method in initial surgical approach of patients with suspected or confirmed AA.

Biography

Bárbara Ribeiro Diniz and Rafael Salomão de Alvarenga Alves are respectively 23 and 22 year olds in the third and fourth years of medical school at the University Center of Belo Horizonte (UniBH), Brazil. Rafael has been academic monitor in Anatomy and Neuroanatomy disciplines, and Bárbara has performed the same role in General Cytology and Histology. Both are aspiring surgery careers. Geraldo José is general surgeon, teacher at UniBH and advisor for this project. Doctor degree in video-assisted transumbilical appendectomy compared with conventional and laparoscopic ones in acute appendicitis. Chief surgeon at Madre Teresa hospital.

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Session name: Bárbara Ribeiro, Rafael Salomão.
Category: Oral presentation.