

Laparoscopic Management of Acute Adominal Emergencies

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ABSTRACT

Due to uncertain diagnosis alongside life threatening consequences, acute abdominal condition considered as a challenging surgical emergency. Clinico-radiological assessments are sometime not sufficient to give a clear confident diagnosis. Laparoscopy can be used as an efficient diagnostic as well as valuable therapeutic tool. Hence, the current study aims to evaluate the role of minimally access approach in such cases. A 53 patient were included in this prospective study between 2023 and 2025. They were clinically assessed and evaluated by laboratory tests and radiological imaging. Laparoscopy was used within the first 24-48 hours in all involved patients. The 53 patients were 29 males and 24 females. The mean age was 36.39 years. The patients consist of Acute appendicitis (10), appendicular abscess (5), appendicular mass (3), acute cholecystitis (13), Emphyema of gall bladder (2), peptic ulcer perforation (2), complicated acute pancreatitis (2), mechanical intestinal obstruction (3), intra-abdominal collection (2), complicated liver hydatid (1), ectopic pregnancy (5), complicated ovarian cyst (2) and pyosalpinx (3). In all of them, a preoperative clinico-radiological diagnoses and intraoperative laparoscopic diagnoses were performed with an accuracy of 88.67% and 100% respectively. Conversion rate was 7.54%. Port site infection, wound infection and respiratory complications were reported in 11.31% of all patients. Most cases 77.35% spent 1-2 days in hospital post-operatively. The usage of laparoscopy in emergency setting is very crucial for avoidance of unnecessary 'explorative' laparotomy and alleviate any unwanted harm to the patient and it is excellent effective therapeutic tool achieving required surgical procedures.

Keywords: Acute abdomen, clinicoradiological diagnoses, diagnostic laparoscopy

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