

**Comparative study between
laparoscopic assisted left colectomy &
hand assisted laparoscopic colectomy
for patients with colorectal carcinoma**

Thesis

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Submitted by

Mohamed Gamal Abd El-Rahman

M.B., B. CH., M.Sc, General surgery

Under the Supervision of

Prof. Dr. Hisham Adel Alaa-El Deen

Professor of general surgery

Faculty of medicine Ain Shams University

Prof.Dr. Wafi Fouad Salib

Ass. Prof. of general surgery

Faculty of medicine Ain Shams University

Prof.Dr. Mohamed Ahmed Abdo

Ass. Prof. of general surgery

Faculty of medicine Ain Shams University

Ain Shams University

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تحت إشراف

الأستاذ الدكتور/ هشام عادل علاء الدين
أستاذ الجراحة العامة
كلية الطب جامعة عين شمس

الأستاذ الدكتور/ وافي فؤاد صليب
أستاذ مساعد الجراحة العامة
كلية الطب جامعة عين شمس

الأستاذ الدكتور/ محمد أحمد عبده
أستاذ مساعد الجراحة العامة
كلية الطب جامعة عين شمس

جامعة عين شمس

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List of abbreviations

AFP :alpha feto protein

APR: abdominoperineal resection.

APRP: Acute phase reactant protein.

BMI: body mass index.

CA: carbohydrate antigen.

CEA: carcino embryonic antigene.

CT scan: computerized tomography scan.

CXR:chest X-ray.

dMMR: deficient mismatch repair.

DCBE: Double Contrast Barium Enema.

DRE:digital rectal examination.

DVT: deep venous thrombosis.

EGFR: epidermal growth factor receptor.

EMA: epithelial membrane antigine.

*familial adenomatous polyposis***FAP**: .

FDG:fluoro-2-deoxyglucose.

FOBT : Fecal Occult Blood Test.

GIST: Gastrointestinal stromal tumor

HALS: hand assisted laparoscopic surgery.

H-MSI : high frequency microsatellite instability.

.Hereditary nonpolyposis colon cancer syndrome**HNPCC**: