

LAPAROSCOPIC MANAGEMENT OF SUSPICIOUS ADENEXAL MASS

By

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ABSTRACT

Background: Different tools have been used for prediction of malignancy in ovarian masses; such as tumor markers, ultrasound findings, or other malignancy indices combining more than one variable. Cancer antigen 125 (CA-125) is the most frequently used biomarker for ovarian cancer detection.

Objective: To investigate whether laparoscopy could replace safe and effective surgical management of adnexal masses.

Patients and Methods: This was a prospective study. It was conducted over 2 years in Al-Maadi Military Hospital and Air force General Hospital. The study was conducted on 100 patients from October 2018 till September 2020. Histopathology was done by Histopathology team at Maadi Military hospital.

Results: All 93 patients managed laparoscopically had a benign and malignant diagnosis, whereas 7 of the 19 patients who underwent laparotomy were diagnosed with malignancy. The indications for conversion to laparotomy were malignancies, dense adhesions and small bowel enterotomies.

Conclusion: Laparoscopic surgery seemed to offer significant advantages such as reduced hospital stay, less adverse effects, and better quality of life, laparoscopic surgery became a corner stone in management of adnexal masses either benign or malignant especially if the facility of Frozen Section Biopsy can be offered.

Keywords: Adenexal Mass, Laparoscopic, Ovarian cancer.

INTRODUCTION

Over years, laparoscopy has evolved from a limited gynecologic surgical procedure used only for diagnosis and tubal ligations to a major surgical tool used for management of a variety of gynecological conditions. Today, laparoscopy has emerged as one of the most common surgical procedures. The faster recovery time, minimal pain, fewer days of hospitalization and better aesthetic results has made laparoscopy immensely popular. Also, technical parameters such as the magnified view during the

procedure and relatively small risk of complications resulted in the wide use of laparoscopic surgery in gynecology. Laparoscopy has now become the gold standard method for management of a wide range of gynecological ailments, including the adnexal masses. Although, most of the adnexal masses arise from ovaries, a wide variety of pathologies may be associated. Tuboovarian abscess, ectopic pregnancy, subserosal fibroids with pedicle, appendicular mass etc. are the common pathologies that need to be differentiated (*Zaman et al., 2010*).

A number of non-neoplastic and neoplastic lesions occur within the ovaries. They can present from the neonatal period to post-menopause. Most are functional in nature and resolve with minimal treatment. However, ovarian cysts can herald an underlying malignant process. When cysts are large, persistent, or painful, surgery may be required (*Matsushita et al., 2014*). The sonological detection of ovarian malignancy is quite good and acceptable. The predictive value is about 96% in detection of the benign masses (*Karnik et al., 2015*).

The procedure, being non-invasive, is widely acceptable for establishing the diagnosis. Magnetic resonance imaging (MRI) increases the specificity of imaging evaluation for adnexal masses, especially when they are indeterminate on ultrasound (*Grammatikakis et al., 2015*).

MRI has a high accuracy in differentiating benign from malignant masses. Endometriomas, Teratomas, simple cysts, fibromas, exophytic or extrauterine fibroids, and hydrosalpinges can be diagnosed with high specificity. Histopathological and MRI correlation of adnexal masses, the role of MRI in the differentiation of benign from malignant adnexal pathologies, is found to quite promising. Magnetic resonance imaging is useful in characterization of adnexal masses that are not completely evaluated by ultrasound. It can provide valuable information on soft tissue composition based on specific tissue relaxation times and allows multiplanar imaging at large field of view to define the origin and extent of pelvic pathology (*Karnik et al., 2015*).

The aim of this study was to investigate laparoscopy in surgical management of adnexal masses.

PATIENTS AND METHODS

This is a prospective study. It was conducted over 2 years in Al Maadi Military Hospital and Air force General Hospital, the study was conducted on 100 Patients, all cases were operated on selective basis. The study carried out during the period between October 2018 till September 2020.

Inclusion criteria was, female patients aged above (9 years old), preoperative estimation of the tumor markers levels especially CA 125 (normal range 0–35 mU/L), u. In cases of doubt, MRI with or without contrast was done to establish the exact nature of the masses.

Exclusion criteria were known contraindications for laparoscopy, such as medical reasons, preoperative abdomens caused by adhesion formation, coagulopathy, cirrhosis, aberrant anatomy, small bowel obstruction, disseminated abdominal cancer, pulmonary compliance and cardiovascular issues, and intracranial disease.

Trans-vaginal ultrasound scanning was used as primary imaging. After written informed consents, all the patients were taken for the procedures under general anesthesia. Preoperative findings were noted. All patients underwent careful bowel preparations. The facility of frozen section biopsy is available in our hospital. All the specimens were sent for histopathological examinations post operatively. All the patients received a single dose IV ceftriaxone and sulbactam (1.5 gm) preoperatively and 3 days oral

antibiotic (200 mg cefixime) for next 5 days, except in complicated cases. In complicated cases, they were individualized for antibiotic protocol. Study was approved by the ethical committee of the hospital. Histopathology was done by Histopathology team at Maadi Military hospital.

In our study, we compared the safety and effectiveness of laparoscopy versus laparotomy including preoperative demographic criteria (age, weight, height, BMI), intraoperative bleeding, postoperative hospital stay, and complications.

All patients were subjected to the following: Written informed consent, thorough history, medical surgical, obstetrics, menstrual & familial history, detailed history, and pre-anesthetic work-up was done on all patients, physical examination; measurement of body mass index weight per meter square, general examination and investigations (Laboratory: CBC, viral markers Hepatic viral markers, Ca125, Ca19.9, CEA and

AFP. Vaginal Us, MRI on abd. and pelvis).

The used laparoscopic instruments were type Karl Stores.

Acknowledgment: especial thanks for the team of histopathology at Maadi Military Hospital for their precious help to complete the histopathology part of the study.

Statistical analysis:

Statistical analysis was done by SPSS v25 (IBM Inc., Chicago, IL, USA). Normality of data was checked with Shapiro-Wilks test. Numerical variables were presented as mean and standard deviation (SD) and compared between the two groups utilizing Student's t- test. Categorical variables were presented as frequency and percentage (%) and were analysed utilizing the Chi-square test or Fisher's exact test when appropriate. P value < 0.05 was considered significant. In statistical methods sections: utilizing independent t-test and Mann Whitney U test.

RESULTS

Mean±SD of age was 45.6±11.8 years, of weight was 73.1±8.8 kg, of height was 1.66±0.05 m and of BMI was 26.6±2.7 kg/m². post menopause was in 40.0% of cases. The most frequent clinical

presentations were abdominal pain (67.0%), followed by pelvic pain (53.0%), then bleeding (30.0%) and urinary (25.0%) (**Table 1**).

Table (1): Demographic characteristics and clinical presentations among the studied cases

Variables		Mean±SD	Range
Age (years)		45.6±11.8	18.0–71.0
Weight (kg)		73.1±8.8	50.9–94.5
Height (m)		1.66±0.05	1.51–1.78
BMI (kg/m ²)		26.6±2.7	18.7–34.3
		N	%
Menopause	Pre	60	60.0
	Post	40	40.0
Abdominal pain		67	67.0
Pelvic pain		53	53.0
Bleeding		30	30.0
Urinary		25	25.0

Total=100. BMI: Body mass index.

The most frequent pathology was endometriosis (34.0%), followed by serous cyst (20.0%), then tubo-ovarian complex (13.0%), dermoid cyst (13.0%), hemorrhagic corpus luteum cyst (9.0%),

fibroids (6.0%), ovarian cancer (2.0%) and uterine cancer (2.0%). Complications were in (8.0%), whole ascites developed in (4.0%). Mean±SD of hospital stay was 3.1±1.6 days (**Table 2**).

Table (2): Pathological and postoperative findings among the studied cases

Characteristics	N	%
Endometriosis	34	34.0
Serous cyst	20	20.0
Tubo-ovarian complex	13	13.0
Dermoid cyst	13	13.0
Hemorrhagic corpus luteum cyst	9	9.0
Fibroids	6	6.0
Ovarian cancer	2	2.0
Uterine cancer	2	2.0
Complications	8	8.0
Ascites	4	4.0
	Mean±SD	Range
Hospital stay (days)	3.1±1.6	1.0–11.0

Total=100.

No significant differences according to laparotomy and laparoscopy regarding demographic characteristics. Age was 49.9±16.8 and 45.3±11.4 years respectively ($p=0.325$), weight was 70.4±7.9 and 73.3±8.9 kg respectively ($p=0.404$), height was 1.65±0.04 and 1.66±0.05 m respectively ($p=0.783$), BMI was 25.7±2.2 and 26.6±2.7 respectively ($p=0.400$), while postmenopausal was

(57.1%) and (38.7%) respectively ($p=0.433$).

No significant differences according to laparotomy and laparoscopy regarding clinical presentation. Abdominal pain was (85.7%) and (65.6%) respectively ($p=0.420$), Pelvic pain was (57.1%) and (52.7%) respectively ($p=0.999$), Pelvic Bleeding was (57.1%) and (28.0%) respectively ($p=0.193$) and Urinary was

(14.3%) and (25.8%) respectively (p=0.677).

Operation duration was significantly longer in laparotomy than in laparoscopy; 229.3±89.0 and 127.3±31.4 (p=0.023). Blood loss was significantly higher in laparotomy than in laparoscopy; 862.9±374.4 and 267.7±75.8 (p<0.001).

Ovarian cancer was significantly more frequent in laparotomy than in laparoscopy; (28.6%) and (0.0%) respectively (p=0.004). Uterine cancer was significantly more frequent in

laparotomy than in laparoscopy; (28.6%) and (0.0%) respectively (p=0.004).

Complications were significantly more frequent in laparotomy than in laparoscopy; (42.9%) and (5.4%) respectively (p=0.010). No significant differences according to laparotomy and laparoscopy regarding ascites; (0.0%) and (4.3%) (p=0.999). Hospital stay was significantly longer in laparotomy than in laparoscopy; 6.4±3.4 and 2.8±0.2 (p<0.001) (Table 3).

Table (3): Comparison according to performed intervention regarding demographic characteristics, clinical presentation, operative characteristics, pathological findings and postoperative findings.

Variables	Laparotomy (N=7)	Laparoscopy (N=93)	P-value
Age (years)	49.9±16.8	45.3±11.4	>0.05
Weight (kg)	70.4±7.9	73.3±8.9	>0.05
Height (m)	1.65±0.04	1.66±0.05	>0.05
BMI (kg/m ²)	25.7±2.2	26.6±2.7	>0.05
Menopause	Pre	3 (42.9%)	>0.05
	Post	4 (57.1%)	>0.05
Abdominal pain	6 (85.7%)	61 (65.6%)	>0.05
Pelvic pain	4 (57.1%)	49 (52.7%)	>0.05
Bleeding	4 (57.1%)	26 (28.0%)	>0.05
Urinary	1 (14.3%)	24 (25.8%)	>0.05
Duration (minutes)	229.3±89.0	127.3±31.4	0.023
Blood loss (mL)	862.9±374.4	267.7±75.8	<0.001
Endometriosis	2 (28.6%)	32 (34.4%)	>0.05
Serous cyst	0 (0.0%)	20 (21.5%)	>0.05
Tubo-ovarian complex	0 (0.0%)	13 (14.0%)	>0.05
Dermoid cyst	1 (14.3%)	12 (12.9%)	>0.05
Hemorrhagic corpus luteum cyst	0 (0.0%)	9 (9.7%)	>0.05
Fibroids	0 (0.0%)	6 (6.5%)	>0.05
Ovarian cancer	2 (28.6%)	0 (0.0%)	0.004
Uterine cancer	2 (28.6%)	0 (0.0%)	0.004
Complications	3 (42.9%)	5 (5.4%)	0.010
Ascites	0 (0.0%)	4 (4.3%)	>0.05
Hospital stay (days)	6.4±3.4	2.8±0.2	<0.001

DISCUSSION

In our study, mean age of patients was 45 years (range from 18 y to 71 y.), Mean weight was 73.1kg, of height was 1.66m

and of BMI was 26.6 kg/m². Postmenopause was in 40.0% of cases. Premenopause were 60% of cases.

Minority of cases (7.0%) underwent laparotomy. Mean±SD of operation duration was 134.4±45.6 minutes, while of blood loss was 309.4±192.7 mL, The most frequent pathology was endometriosis (34.0%), followed by serous cyst (20.0%), tubo-ovarian complex (13.0%), dermoid cyst (13.0%), hemorrhagic corpus luteum cyst (9.0%), fibroids (6.0%), ovarian cancer (2.0%) and uterine cancer (2.0%). Complications were in 8.0%, and whole ascites developed in (4.0%). Mean±SD of hospital stay was 3.1±1.6 days.

The most frequent clinical presentations were abdominal pain (67.0%), followed by pelvic pain (53.0%), then bleeding (30.0%) and urinary symptoms (25.0%)

The increased risk for the rupture of the mass and spillage of cyst contents remains the most reported complication providing an important disadvantage of the method. On the contrary, a debate exists there, because according to the current literature it is not clearly reported which is the estimated risk of rupture during laparotomy, since surgeons seldom refer to the risk of rupturing a cyst when it is removed by laparotomy (*Matsushita et al., 2014*).

This suspicion is not supported by several investigators that report the intact cystectomy by laparoscopy in rates up to 80% (*Djukic et al., 2014*), or similar rates when laparoscopy and laparotomy are compared. *Djukic et al. (2014)* report that the cyst was removed enraptured in 72,2% of the cases, something that is comparable to the 68% of our study. Many surgeons first puncture cysts after putting them in the endobag, but this is not a general rule.

While, in contrary *Mettler et al. (2011)* a study was carried out on 641 pt., 493 (76.9%) ovarian tumors were treated laparoscopically and 138 (21.5%) by laparotomy. While in our study only 7 % are converted to laparotomy either due to severe adhesions or malignancies diagnosed by Frozen Section Biopsy. We explain that due to the technical progress in laparoscopy used tools and increased experiences in dealing with complications or tumours.

In addition to that, in their study twelve laparoscopies were converted to laparotomy, six because of technical reasons such as severe adhesions, bleeding, or tumor size, and six for intraoperative suspicion of malignancy. While in our Study suspicion of malignancy was managed Laparoscopically and Frozen Section Biopsy was taken which guided us how to proceed in management according to the referred pathology.

Dodge et al. (2012) Stated that, laparoscopy is a reasonable alternative to laparotomy, provided that appropriate surgery and staging can be done. The choice between laparoscopy and laparotomy should be based on patient and clinician preference. Discussion with a gynecologic oncologist is recommended.

The first controversial issue regarding laparoscopic surgery for the treatment of ovarian cancer is the accuracy of laparoscopic surgical staging. Among patients with surgical stage I ovarian cancer, those who have undergone comprehensive surgical staging have a lower risk of recurrence than do those who have not. It has been argued that laparoscopy does not allow for a thorough

inspection of the pelvis, mesentery, and peritoneum leading to failure of upstaging and in adequate administration of chemotherapy (Ghezzi *et al.*, 2010). Alternative evaluations of the accuracy of comprehensive surgical staging can be inferred by comparing the rate of upstaging and lymph node yield between laparoscopic and laparotomic cases. A case-control series of 34 patients showed no difference in the lymph node yield between laparoscopy and laparotomy. Additionally, a meta-analysis of 3 comparative studies revealed no significant difference between the upstaging rates of laparoscopy and laparotomy (Park *et al.*, 2013). Likewise, in the present study, there were no significant differences in the upstaging rate or lymph node yield between the 2 groups.

The second controversial issue is the rate of tumor rupture between the laparoscopic and laparotomic approaches and the prognostic value of tumor rupture during surgery. In general, reported tumor rupture rates range from 11.4% to 30.3%. However, the risk of tumor rupture is not only limited to laparoscopic surgery, and some studies have reported that the risk of tumor rupture is similar between laparoscopic and laparotomic surgery. One previous study reported that the incidence of tumor rupture in patients with ovarian cancer was similar between the laparoscopy and laparotomy groups (10.5% versus 12.1%, respectively; $P=1.000$) (Park *et al.*, 2010).

Other studies demonstrated that the rate of tumor rupture was 8% in both procedures (Suh *et al.*, 2010 and Tozzi & Schneider, 2010). The clinical

significance of tumor rupture during surgery remains uncertain. The largest study of cyst rupture was a retrospective, multicenter study involving >1500 patients. The study demonstrated that tumor rupture was an independent predictor of disease-free survival. In contrast, no difference in survival was noted in a retrospective review of 394 patients. However, these findings have not been confirmed in prospective studies. The prognostic value of intraoperative tumor rupture must be more clearly examined based on large-scale randomized controlled trials (RCTs) in patients with early ovarian cancer (Park *et al.*, 2013). All efforts should be made to reduce the incidence of tumor contamination of the abdominal cavity, including liberal use of a laparoscopic bag, controlled aspiration, and minimization of the risk of rupture (Sternchos *et al.*, 2013).

In the present study, thorough irrigation of the intraperitoneal cavity was performed using distilled water and cisplatin at the end of the surgical procedure, which may have reduced the negative impact of potential tumor rupture on recurrence and survival. Intraperitoneal administration of anticancer drugs has many pharmacokinetic advantages and induces high response rates in the abdomen because the “peritoneal plasma barrier” provides dose-intensive therapy (Cascales-Campos *et al.*, 2014).

The third point of controversy is port-site metastasis. Large series of patients with malignant disease undergoing transperitoneal laparoscopy suggested that the incidence of port site implantation was <1% (Abu-Rustum *et al.*, 2010).

Zivanovic et al. (2012) reported that the port site recurrence rate of 1.96% following laparoscopy for ovarian, fallopian tube, or primary peritoneal cancer among 796 patients was comparable with the wound recurrence rate following laparotomy.

Nezhat et al. (2010) found that the rate of port-site metastasis in laparoscopic management of ovarian cancer was not higher than that in laparotomic management. The precise origin of port-site metastasis remains unclear. Several mechanisms of the development of port-site metastasis have been proposed. Among the most common are hematogenous spread, direct wound contamination and implantation, multiple effects of pneumoperitoneum, the effects of the gases used for insufflation, the “chimney effect,” aerosolization of tumor cells, local immune reactions, and the surgical technique used (*Abu-Rustum et al., 2010*).

We observed no port-site metastasis in the present study. We placed a pipe in the vaginal canal and removed the specimen from the pipe through the vaginal canal to avoid contact with the vaginal wall; the vaginal was then thoroughly irrigated before suturing.

The fourth point of controversy is the efficiency of laparoscopic staging compared with that of traditional laparotomic procedures. Standard survival outcomes must not be compromised for a procedure to be accepted as the standard treatment for early ovarian carcinoma. In agreement with this, we found no significant differences in survival analyses based on surgical management approaches. The overall and 5-year

survival rates were 92.9% and 91.3% in the laparoscopy group and 90.0% and 88.4% in the laparotomy group. *Ghezzi et al. (2012)* reported the largest study to date of laparoscopically managed early ovarian cancer. In their prospective study of 82 patients with a median follow-up time of 28.5 (range, 3–86) months, the overall and disease-free survival rates were 98.8% and 95.1%, respectively.

CONCLUSION

Laparoscopic surgery seemed to offer significant advantages such as reduced hospital stay, less adverse effects, and better quality of life and due to that reasons, laparoscopic surgery became a corner stone in management of adnexal masses either benign or malignant especially if the facility of Frozen Section Biopsy can be offered.

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دور المنظار الجراحي في تشخيص وعلاج الأورام الموجودة بمتعلقات الرحم

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خلفية البحث: أصبح المنظار من أشهر الآلات الجراحية لسهولة استخدامه وأقل مضاعفات وفترة بقاء المريض بالمستشفى بعد التدخل الجراحي بالمنظار. وأصبح الوسيلة المثالية في تشخيص وعلاج الكثير من أمراض النساء والتوليد.

الهدف من البحث: تقييم دور المنظار الجراحي وأهميته في تشخيص وعلاج أورام متعلقات الرحم.

المريضات وطرق البحث: هذه دراسة مقارنة عشوائية استباقية أجريت على 100 مريضة في مستشفى المعادي العسكري والمستشفى الجوي العام في الفترة ما بين أكتوبر 2018 وحتى سبتمبر 2020 بعد اخذ إذن مكتوب من المريضات وتاريخ مرضي مفصل وخضوعهن لمعايير الدراسة المذكورة وكل المرضي الذين تم تشخيصهن بأورام بمتعلقات الرحم تم دخولهن لعمل منظار جراحي تشخيصي/علاجي وإرسال العينات إلي معمل التحليل الباثولوجي لدراسة النتائج.

نتائج البحث: إكتملت إدارة المناظير بنجاح لـ 93 مريضة من أصل 100 مريضة في هذه الدراسة. ومع ذلك، تطلب تحويل سبع مريضات إلى شق البطن. وجميع المريضات الـ 93 اللاتي تم علاجهن بالمنظار لديهن تشخيص حميد وخبيث، في حين تم تشخيص 7 من 19 مريضة خضعن لبضع البطن بورم خبيث. وكانت مؤشرات التحول إلى بضع

البطن هي الأورام الخبيثة، والالتصاقات الكثيفة، والعضلات المعوية الدقيقة.

الاستنتاج: توفر الجراحة بالمنظار مزايا مهمة مثل تقليل الإقامة في المستشفى، وتقليل الآثار الضارة، وتحسين نوعية الحياة، ونتيجة لهذه الأسباب، تصبح الجراحة بالمنظار حجر الزاوية في إدارة الكتل الغدية سواء كانت حميدة أو خبيثة خاصة إذا كانت هناك وسائل لفحص عينات.

الكلمات الدالة : أورام الرحم، منظار البطن، سرطان المبيض.