

A hybrid surgery for a hybrid lesion - Hand assisted laparoscopic removal of a large dermoid cyst

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Background :

Ovarian dermoid cysts are common benign neoplasms that are often asymptomatic. Rupture is rare but may result in chemical peritonitis and significant operative difficulty. Management can be challenging, particularly in the context of trauma and competing clinical priorities.

Aim :

To describe the management of a large ruptured ovarian dermoid cyst following polytrauma, and to demonstrate the utility of a hybrid minimally invasive surgical approach.

Case :

A young woman was incidentally found to have a large dermoid cyst following a high-speed motor vehicle accident. Imaging suggested partial rupture; however, surgery was deferred due to poly trauma . Three months later, she was re referred with abdominal pain, fever, and persistent symptoms despite antibiotics. Imaging confirmed a large complex adnexal mass with features consistent with rupture and chemical peritonitis.

Results :

A laparoscopic-assisted right salpingo-oophorectomy was performed via a mini Pfannenstiel incision using a hand-assisted technique. Intraoperative findings included a ruptured dermoid cyst with extensive adhesions and generalised peritonitis. The approach enabled safe adhesiolysis, specimen retrieval, and copious peritoneal washout. The patient recovered well and was discharged on day 10.

Conclusion :

Ruptured dermoid cysts following trauma present significant surgical challenges. A hybrid laparoscopic-assisted approach allows effective management while minimising morbidity. Care should be individualised, with multidisciplinary input and consideration of patient-specific factors.