Introduction: Pyometra is the accumulation of purulent fluid in the uterine cavity caused by impaired drainage of pus due to benign or malignant conditions; rarely with resultant spontaneous uterine perforation brought about by uterine distension.

Cases: We report three consecutive cases of spontaneous perforated pyometra in postmenopausal elderly women aged 60 to 70 years who presented with acute abdomen, initially diagnosed as hollow viscus perforation, demonstrated of having significant uterine perforation at laparotomy for which hysterectomy with bilateral salpingo-oophorectomy were done. Histopathological examination revealed features of necrosis of stroma with chronic endometritis without any evidence of malignancy in all the three cases.

Conclusion: Spontaneous perforated pyometra, a grave complication necessitating prompt intervention, should always be kept as a possibility in all cases of suspected pyoperitoneum and acute abdomen in elderly postmenopausal women.

Keywords: Acute abdomen; Perforated pyometra; Spontaneous.
and USG was suggestive of hollow viscus perforation. On emergency laparotomy there was pyoperitoneum with about 4X3 cm eaten up area in the fundic region of uterus covered with slough. She was managed with TAH with BSO. The HPE showed presence of necrotic tissue in the stroma with absence of features of malignancy.

Case 3

70 years Para 8 postmenopausal lady presented with fever and pain abdomen for 10 days with gross distension and tenderness of the abdomen on examination. Her investigations revealed raised Total Count (TC) with neutrophilia and USG showed minimal free fluid in lesser sac, perihepatic region and on aspiration yielded purulent fluid. Emergency exploratory laparotomy was performed with findings of 1.5 L pus present in peritoneal cavity, no collection in lesser sac, no hollow viscus perforation. A 2x2 cm perforation was noted in fundus of uterus with black and necrotic edges of rent. TAH with BSO was done with peritoneal lavage. HPE report showed acute endometritis with ulceration and chronic cervicitis.

All three patients had ICU admission, prolonged hospital stay, needed higher antibiotics and one patient developed burst abdomen and hence needed relaparotomy. Though we prevented mortality in all three women, there was significant morbidity.

Discussion

Pyometra usually develops in elderly women. It is thought to be caused by occlusion of the cervical canal secondary to chronic cervicitis, radiation cervicitis, benign or malignant cervical lesions, puerperal infections, foreign bodies, or congenital anomalies. Also, the risk factors may include a decline in activity, incontinence, diabetes, and long-term intrauterine device use. The classic triad of symptoms in patients with pyometra consists of purulent vaginal discharge, postmenopausal bleeding, and lower abdominal pain. However, more than 50% of all patients with nonruptured pyometra are asymptomatic. Though spontaneous perforation of uterus is rare it can be catastrophic resulting in significant morbidity and mortality. Once ruptured, the symptoms become severe and acute abdomen often develops; it is therefore important to make a differential diagnosis from other causes of acute surgical abdomens in elderly patients. In all three cases initial diagnosis was that of hollow viscous perforation and diagnosis of ruptured pyometra was made only on laparotomy. Their management is often difficult and hysterectomy and bilateral salpingo-oophorectomy may be the best choice procedure in these patients.

Conclusion

Spontaneous perforated pyometra, a grave complication necessitating prompt intervention, should always be kept as a possibility in all cases of suspected pyoperitoneum and acute abdomen in elderly postmenopausal women.

References