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Research Article

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Review of Visceral Surgery Activities in A Field Hospital in Juba: Epidemiological, Diagnostic and Therapeutic Aspects

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Abstract

To perform an epidemiological review of the visceral surgery operative activity of the Juba Field Hospital (JFH). A total of 202 surgical procedures were retained. They represented 38.92% of operative activities. The emergencies were 12 (13.33%). The first condition was hernias 114 (60%) followed by proctologic conditions 45 (23.68%). The average age of patients was 38, 75 years with extremes of 12 and 86 years. There were 150 males (78, 94%) and 40 females (21.05%). The sex ratio is 3.75. The evolution was favorable in 95% of the cases, the postoperative complications were 9.9% dominated by the suppurations of the operating site.

Conclusion: The visceral surgery activities are important in Juba with domination of the hernia pathology that must be treated early to prevent complications.

Keywords: Visceral surgery; Hernia; Field hospital; Juba

Introduction

As part of the South-South cooperation, King Mohammed VI gave his high instructions for the deployment of a multi-specialty field hospital in Juba with a capacity of 30 beds expandable to 60, with a staff of 20 specialist doctors and 18 nurses. Visceral surgery was provided by a single general surgeon. We wanted to take stock of more than 3 months of visceral surgery activity. Thus, the purpose of this study was to describe the epidemiological aspects, diagnosis of visceral affections and report the results of the management.

Materials and Methods

This was a descriptive retrospective study over a period of more than 3 months from January 15 to April 25, 2017. Included were all patients operated on for a visceral pathology in the operating theater of the Juba Field Hospital. The operating theater of the JFH is equipped with 2 rooms for surgical procedures, including one reserved for minor surgery such as circumcisions, incisions and

drainages of abscess, uterine curettage for incomplete abortions, lipomas and cyst resections under local anesthesia. The patients had been operated on by a general surgeon. The sources of the data were the registers of operative protocols and hospitalizations. The variables studied were sociodemographic, diagnostic and therapeutic outcomes.

Results

Epidemiology

During the study period, 519 patients were operated in the operating theater of the JFH including 202 (38.92%) for a visceral pathology. The average age of patients was 38.75 years with extremes of 12 and 86 years. There were 156 males (77.22%) and 46 females (22, 77%). The sex ratio is 3.39. Scheduled surgery and emergencies concerned 190 (94.05%) and 12 (5.94%) patients, respectively.



Diagnosis aspect

The first two pathologies in order of frequency were hernias and proctologic pathologies (Table1). Surgical emergencies involved 12 patients (5.94%) including 6 appendicitis (2.97%) and 6 cholecystitis (2.97%). The inguinal hernias (Figure 1) accounted for 80.70% (n = 92) of the hernias and 45.54% of the operated diseases. The femoral hernias (Figure 2) were 2 (0.99%). The epigastric (Figure 3) and incisional hernias were 19 (9.40%) and 1 (0.49%), respectively and there were 12 (5.94%) uncomplicated vesicular lithiasis. Only one patient was treated for hydatid liver disease (0.49%).

Table 1: Distribution of Pathologies Operated in the Operating Room.

Proctologic pathologies	Number	Percentage	Middle Age
Appendicitis	6	2 ,97	31,6
Cholecystitis	6	2,97	31 ,3
Inguinal Hernia	92	45,54	43,4
Femoral Hernia	2	0,99	40
Epigastric Hernia	19	9 ,40	45,6
Incisional Hernia	1	0 ,49	49
Vesicular Lithiasis	12	5 ,94	43 ,3
Hydatid Cyst Of The Liver	1	0 ,49	36
Proctology	57	28 ,21	35,55
Lipomas	8	03,96	38,3







Figure 1: Inguinal Hernias.



Figure 2: Left Femoral Hernia.



Figure 3: Epigastric Hernia.

Therapeutic results

We recorded 20 cases of complications, a morbidity of 9.90%. Surgical site infections were 14 or 6.93% of all surgical procedures and 70% of complications. Other complications were: scrotal hematoma 03 cases (1.48%), parietal hematoma 02 cases (0.99%). A single stercoral fistula was recorded (0.45%).

Discussion

Visceral surgery accounted for 38.92% of the operations of the JFH operating theater and involved more young males. Emergencies accounted for 11.88% of visceral surgery activities. The young age of the population has been found in several studies concerning visceral surgery [1-7]. Groin hernia is a surgical pathology whose frequency makes it one of the first acts of general surgery [8]. Even if its prevalence and incidence are not known, hernia occupies first place visceral pathologies In Africa [9]. This high rate of hernia surgery can be explained by the strong presence of farmers in this rural area. Sani R. and al in Niger also found a predominance of hernia surgery in a study conducted in several area hospitals [7]. Inguinal hernias accounted for 45.54% of pathologies. This rate was well above the 15.3% found in Dakar [10]. Acute appendicitis seems rare with 2.97% of visceral surgery activities. Patients are seen at an early stage which explains the absence of complications contrary to what has been observed by other authors in Africa [1,3,7] where patients are seen at the stage of complication which explains the high percentage of appendicular peritonitis (15,26%).

In western countries, acute appendicitis accounts for 7 to 14% of UCA [11]. A study conducted in the same hospital in 2016 found a rate of 10% [12]. The rate of surgical site infections was 6.93%. This rate varies from 2.5% to 30.90% in Africa according to countries and years [13] for all surgical procedures. It was 7.3% in Parakou in northern Benin in 2011 [14]. The mortality rate was 00% compared to 6.25% found in Niger [7].

Conclusion

The visceral surgery at the JFH (Juba field hospital) are dominated by hernia surgery and proctologic surgery. The absence of traumatic abdominal surgery was mainly due to the site of the hospital in central Juba far from unstable areas.

Acknowledgement

None.

Conflict of Interest

No conflict of interest.

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