

"A CLINICAL STUDY OF ACUTE ABDOMEN IN A TEACHING HOSPITAL"

KEYWORDS

Acute abdomen, Acute appendicitis, abdominal pain

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ABSTRACT Background: Government General Hospital, Kurnool is the main referral center for the region. The hospital is a teaching Hospital under Dr.N.T.R University Of Health Sciences, Vijayawada.

Objectives: Our objective is to present updated results of the systemic analysis of 200 consecutively operated cases of acute abdomen of different etiologies in surgical emergency room of Government general hospital, Kurnool. The design is a prospective systemic analysis

Methodology: Our data sources were admissions in the surgical emergency room over a period of 2 years, from June 2013 to June 2015. Patients in age group of 18 years and above of either sex presenting with signs and symptoms of acute abdomen who underwent surgery are included in the study.

Results: Outcomes from our study reveal that acute appendicitis and Duodenal Ulcer perforation are the main reasons for admissions requiring surgical intervention, in our region.

Conclusion: We conclude that a junior resident/surgeon in our region in a surgical emergency room should be well versed in diagnosing acute appendicitis and Duodenal Ulcer perforation.

INTRODUCTION:

Someone who becomes acutely ill and in whom symptoms and signs are chiefly related to the abdomen has an acute abdomen [1]. Acute abdominal pain is a cardinal symptom in acute abdomen, and is one of the most common symptoms of patient attending the emergency unit. The etiology of acute abdomen ranges from relatively mild to life threatening pathology, which may require immediate surgery.

The clinician skill and the knowledge of the local spectrum of acute abdomens are the keys for quick diagnosis and appropriate treatment. This present study is to find out the clinical patterns of acute abdomen in Government General Hospital, Kurnool.

MATERIALS AND METHODS:

We carried out systemic analysis of 200 consecutively operated patients from June2013 to June 2015 for acute abdomen of different etiologies .Patients were examined, investigated, diagnosed and treated.

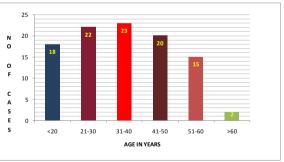
RESULTS:

On the basis of final diagnosis the following results were found:

TABLE 1: AGE DISTRIBUTION IN ACUTE ABDOMEN

AGE IN YEARS	NO. OF PATIENTS	PERCENTAGE				
<20	28	14				
21-30	70	35				
31-40	42	21				
41-50	30	15				

51-60	22	11
>60	08	04
TOTAL	200	100



GRAPH 1: AGE DISTRIBUTION OF ACUTE ABDOMEN

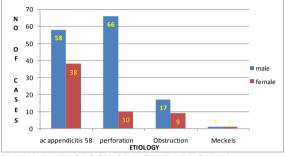
TABLE 2: ETIOLOGY OF ACUTE ABDOMEN

ETIOLOGY	NO OF CASES
Perforation	76
DU	38
Appendicular	20
lleal	12
Gastric	06
Acute appendicitis	96

Graph 3: signs of acute abdomen

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ETIOLOGY	NO OF CASES
Intestinal obstruction	26
SBO	21
LBO	05
Meckels diverticulitis	02
Total	200

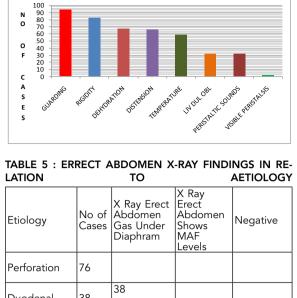


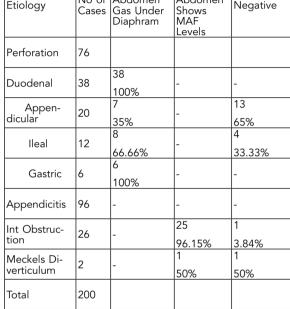
GRAPH 2: ETIOLOGY OF ACUTE ABDOMEN

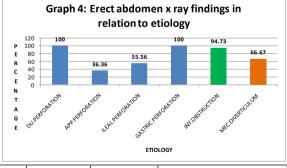
TABLE 3: ANALYSIS OF SYMPTOMS IN RELATION TO **AETIOLOGY**

Etiology	No of Cases	Pain Abdo- men	Vomit- ing	Consti- pation	Abd. Disten- sion	Fever
PERFOR	ATION					
Duode-	38	38 28		17	34	15
nal		100%	73.68%	44.74%	89.47%	39.47%
Appen- dicular	20	20	16	13	14	16
aicular		100%	80%	65%	70%	80%
lleal	12	12	10	7	11	8
		100%		58.33%	91.66%	66.67%
Gastric	06	06	2	3	5	2
Guotino		100%	33.33%	50%	83.33%	33.33%
Appen-	96	96	72	19	06	86
dicitis	, 0	100%	75%	19.8%	6.25%	89.6%
OBSTRU	CTION					
SBO	21	19	18	19	21	13
350	-'	90.48%	85.71%	90.48%	100%	61.9%
LBO	05	04	4	4	5	3
	03	80%	80%	80%	100%	60%
Meckels Diver-	02	2	2	1	1	2
ticulitis	~	100%	100%	50%	50%	100%
Total	200	197	152	84	97	145
TOLAI	200	98.5%	76%	42%	48.5%	72.5%

TABLE 4: SIGNS OF ACUTE ABDOMEN IN RELATION TO ETIOLOGY







Etiology	No of Cases	Тетр	Dehydration	Distension	VP	Gaurding	Rigidity		
PERFORA	ATION								
Duodenal	38	12 31.58%	26 68.42%	34 89.47%	-	38 100%	38 100%	33 86.84%	-
Ap- pen- dicu- lar	20	15 75%	13 65%	18 90%	-	20 100%	20 100%	8 40%	-
lleal	12	9 75%	8 66.67%	11 91.66%	-	12 100%	12 100%	6 50%	-

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Gas- tric	6	2	5	5	-	6	6	6	-
Appendicitis t	96	33.33% %85. 98.68	62 64.58%	83.33% %°. 'C'	1	100% %001	100%	100%	72 80.2%
OBSTRU	CTION								
SBO	21	7 33.33%	18 85.71%	21 100%	19%	16 76%	16 76%	-	10 47.6%
LBO	5	2 40%	2 40%	5 100%	-	3 60%	2 40%	-	1 20%
Meckels Diverticulitis	2	2 100%	1 50%	1 50%	-	2 100%	2 100%	-	-
Total	200	135 67.5%	135 67.5%	102 51%	4 19%	193 96.5%	161 80.5%	53 26.5%	88 44%

TABLE 6: TREATMENT OF VARIOUS ACUTE ABDOMEN

Etiology	Operations	No of Cases	Percentage					
PERFORATION								
Duodenal	Closure of Perforation With Omental Patch	38	100%					
Appendicular	Appendicectomy	20	100%					
	Simple Closure of Perforation	8	66.67%					
lleal	Resection And Anastomosis	3	25%					
	lleostomy	1	8.3%					
Gastric	Closure of Perforation With Omental Patch	6	100%					
APPENDI- CITIS	Appendicectomy	96	100%					
INTESTINAL (OBSTRUCTION							
	Resection And Anastomosis of Small Bowel	8	30.76%					
SBO	Adhesiolysis	9	34.6%					
	Band Release	2	7.69%					
	lleotransverse Anas- tomosis	2	7.69%					
	Resection and anastomosis of large bowel	2	7.69%					
LBO	Colorectal Anasto- mosis	2	7.69%					
	colostomy	1	3.84%					
Meckels Diverticulitis	Diverticulectomy And End To End Anasto- mosis	2	100%					

TABLE 7 : POSTOPERATIVE COMPLICATIONS IN ACUTE ABDOMEN

ADDOME	•							
Etiology	No of Cases	Wound	Respiratory Infection	Incisional Hernia	Hypotension	Fecal Fistula	Septicemia	Mortality
Perforation	1							
Duode- nal	38	13	6	4	8	2	6	7
Appen- dicular	20	6	3	1	-	-	-	-
lleal	12	6	4	4	4	2	4	4
Gastric	6	2	2	-	1	-	2	2
Appendi- citis	96	14	5	-	-	-	-	-
Intestinal Obstruc- tion	26	8	10	5	9	4	6	4
Meckels Diverticu- litis	2	-	-	-	-	-	-	-
Total	200	49	30	14	22	8	18	17

DISCUSSION:

A total of 200 cases were recorded. The sex ratio male: female was: 2.5: 1 The ages ranged from 18 to more than 60 years. The most frequent causes of admission were Acute appendicitis (96 cases), Perforation due to hollow viscus(76 cases), Intestinal obstruction (26cases) and Meckel's diverticulitis(2cases). There are a very few reports in the literature, especially in India, on acute abdomen.

In Perforation due to hollow viscus(76 cases), perforated Duodenal ulcer was the major culprit in the causation of peritonitis (38cases) followed closely by the perforated appendix (20cases). Incidence of biliary peritonitis was rather low as compared to the reported incidence of 6-25% in the Western Literature. [3],[4] Enteric perforation of the small intestine constitutes a significant group in our country and was responsible in 12 cases of peritonitis in this

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study which is in confirmity with the series reported by Bhansali [1] and Budhraja et al [2] .

Intestinal obstruction was seen in 26 cases.Out of these,Small bowel obstruction was seen in 21 cases and Large bowel obstruction in 5 cases.

The higher mortality rate is probably due to the delayed arrival of patients to the hospital, presenting after 48 hours of onset of symptoms.

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