BACKGROUND: Acute appendicitis refers to inflammation of the appendix. Although appendicitis occurs most commonly in young adults, it can develop at any age. The lifetime prevalence of acute appendicitis is approximately 7%. Some of the etiological factors of appendicitis include sex, diet, familial susceptibility winters, presence of obstructive agents. AIMS: The aim of this study was to determine if any seasonal variation in acute appendicitis is present. METHODS AND MATERIAL: This is a retrospective study of 957 cases that underwent appendicectomy between January 2010 and December 2013 for appendicitis and the histopathology confirmed appendicitis were included. Patients with recurrent disease and those who underwent interval appendectomy were excluded. Statistical Analysis: Frequency percentages were used in the analysis of data. RESULTS AND CONCLUSIONS: A total of 957 patients underwent appendectomies after excluding the patients who did not meet the inclusion criteria 854 patients were selected for the study. In which 465 occurred in summer, old seasons of which, 389 in the rainy and 148 in the winter season. In this study we concluded that appendicitis is more common during the summer seasons in India. KEYWORDS: seasonal variations, acute appendicitis.
had no leukocytic infiltration or features of acute attack in appendicitis in histology hence were excluded from the study. Of the 854 patients studied the analysis was as follows.

**DISCUSSION:** In 1886, Reginald H. Fitz, a Harvard pathologist, first described the clinical condition of acute\(^8\). Acute appendicitis is one of the commonest surgical emergencies\(^9\). Simple appendicitis can progress to perforation, which is associated with a much higher morbidity and mortality, and surgeons have therefore been inclined to operate when the diagnosis is probable rather than wait until it is certain\(^10\). More common in winter, could be related to viral infections which are more common during those times\(^11\). Acute inflammation of the appendix may take a variety of form. A histological criterion for the diagnosis of acute appendicitis is polymorphous leucocytic infiltration of the muscularis mucosa\(^12\).

**CONCLUSION:** In this study we concluded that appendicitis is more common during the summer seasons in India.
### Study group

<table>
<thead>
<tr>
<th>Study group</th>
<th>Most cases of appendicitis presenting season</th>
<th>Agreement with our study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mhammad Omran et al.</td>
<td>Summer</td>
<td>Yes</td>
</tr>
<tr>
<td>Noudeh et al.</td>
<td>Summer</td>
<td>Yes</td>
</tr>
<tr>
<td>Stein et al.</td>
<td>Summer</td>
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</tbody>
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### REFERENCES:

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