Retrospective Study of Conservative Management of Appendicular Lump

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ABSTRACT

Introduction: Appendicitis is very common surgical emergency and incidence of appendicular lump is about 2-6%. There are different approaches for management of appendicular lump among which most common and widely accepted approach is managing lump conservatively with interval appendicectomy 6 weeks after resolution of inflammation. The aim of the study is to evaluate the efficacy of the conservative management in appendicular lump. Materials and methods: Retrospective study of the 43 patients admitted with a diagnosis of appendicular lump from March 2015 to February 2016 at Nepalgunj medical college, Nepalgunj were carried out. Result: Out of 204 patients of appendicitis 43(21.07%) patients were found to have appendicular lump. Age ranged from 6 to 81 yrs old. Appendicitis was found to be common at the age range of 21 to 30 years (44.18%), patient reported after 3 to 8 days of Onset of symptoms but most of the patients reported at 5 to 6 days of onset of symptoms. Among 43 patients, 40 patients (93.01%) managed successfully with conservative management. Only three patients (6.97%) developed complications. Out of these conservatively managed, 18(41.86%) underwent interval appendicectomy, 19(44.18%) patients lost to follow up, 3(6.97%) had recurrent appendicitis. Conclusion: Our study concluded that most of the appendicular lumps can be managed conservatively with few complications, which can be managed with immediate intervention.

Key words: Appendicular lump, appendicitis, interval appendicectomy

INTRODUCTION

Appendicitis is very common surgical emergency in surgical practice. Among most common sequelae being appendicular lump accounts for about 2-6% of the patients. Due to self defence mechanism of the body to localize the infection with in the lump formed by inflamed appendix, omentum, caecum and terminal ileum. Well accepted treatment strategy of appendicular lump is conservative regimen followed by interval appendicectomy after 6 weeks following resolution of all the symptoms.

Lump formation are more common in extreme of ages (children and old ages). Furthermore appendicular lump can have complications like appendicular perforations, abscess formation, gangrene of appendix and sometime gangrene of caecum. In the management of appendicular lump three general approach has been employed. Classical and most accepted approach among the surgeons is conservative management till the inflammation subsides usually taking 6 weeks then going for interval appendicectomy so that the surgery is less hazardous, easy as all the inflammation and adhesions has already been subsided and has very less chance of lifethreatening complications like faecal fistula. Semi conservative approach involves immediate appendicectomy after resolution of inflammatory process in few days after initial admission and third approach is to manage entirely with conservative approach and interval appendicectomy only when patient has recurrent attack of appendicitis.

As there are many approaches most common and widely accepted approach is first one that is managing lump conservatively and going for interval appendicectomy after 6 weeks which helps to avoid recurrence of appendicitis and misdiagnosis mostly in females.

The study was conducted to evaluate the outcome of the patients of appendicular lump managed by most acceptable approach i.e managing conservatively for about 6 weeks then going for interval appendicectomy after resolution of all the inflammatory process.

MATERIAL AND METHODS

A retrospective study was conducted at Nepalgunj medical college hospital, Nepalgunj from March 2015 to February 2016, all the patients of all the age managed conservatively for appendicular lump were considered. The diagnosis of the appendicular lump was done with clinical evaluation which was confirmed further by ultrasound abdomen. All the patients considered were managed conservatively by Ochsner Sherren regime and further going for interval appendicectomy after 6 weeks. The study included data regarding demographics, symptoms duration, stay at hospital, complications, recurrence, rate of elective appendicectomies and follow ups. All the data were analyzed with SPSS software.

RESULTS

Total number of patients presenting with feature of appendicitis were 204. 43(21.07%) were diagnosed as appendicular lump who were managed conservatively. Age
range varied from 6 to 81 years (Table I). Out of total 43 patients 28(65.11%) were male and 15(34.88) were female with a ratio of 1.8:1. The time taken for the presentation to the hospital after the onset of symptoms were ranged from 2 to 8 days but the maximum number (41.86%) of patients presented between 5-6 days (Table II). Among 43 patients, 40 patients (93.01%) managed successfully with conservative management. Only three patients (6.97%) developed complications in the form of an appendicular abscess among which 2 were managed with USG guided aspiration and one needed laparotomy. All the patient recovered well. Out of these conservatively managed, 18(41.86%) underwent interval appendicectomy after 6 weeks interval, 19(44.18%) patients lost to follow up, 3(6.97%) had recurrent appendicitis. all of them underwent emergency appendicectomy.

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Number of patients</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-10</td>
<td>3</td>
<td>6.97</td>
</tr>
<tr>
<td>11-20</td>
<td>7</td>
<td>16.27</td>
</tr>
<tr>
<td>21-30</td>
<td>19</td>
<td>44.18</td>
</tr>
<tr>
<td>31-40</td>
<td>5</td>
<td>11.62</td>
</tr>
<tr>
<td>41-50</td>
<td>3</td>
<td>6.97</td>
</tr>
<tr>
<td>51-60</td>
<td>3</td>
<td>6.97</td>
</tr>
<tr>
<td>61-70</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>71-80</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>81-90</td>
<td>1</td>
<td>2.32</td>
</tr>
<tr>
<td>Total</td>
<td>43</td>
<td>100</td>
</tr>
</tbody>
</table>

Table I: Age distribution

<table>
<thead>
<tr>
<th>Duration of symptoms</th>
<th>Number of patients</th>
<th>Incidence %</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;72 hours</td>
<td>5</td>
<td>11.62%</td>
</tr>
<tr>
<td>4-5 days</td>
<td>11</td>
<td>25.58%</td>
</tr>
<tr>
<td>5-6 days</td>
<td>18</td>
<td>41.86%</td>
</tr>
<tr>
<td>&gt;6 days</td>
<td>9</td>
<td>20.93%</td>
</tr>
</tbody>
</table>

Table II: Duration of symptoms at presentation

DISCUSSION
Appendicitis is very common surgical emergency in. If patient doesn't present hospital early ie within 24 to 48 hours the body tries to localize the infection by forming lump or mass. 

In our study the incidence of appendicular lump was 21.07% where as its about 2-6% in other similar study. The higher incidence can be due to late presentation to the hospital and lack of knowledge about the disease and its consequences. Financial problem could be the other reason. The maximum number of the patient in this study group were between the age group of 21 to 30 years which shows that appendicitis is common in young age group which is similar to other studies though it can occur in any age group. The male to female ratio was 1.86:1 with a male predominance which is similar to other studies. Majority of the patient presented 5-6 days after the onset of symptoms, which is a late presentation than in other similar studies, reason behind could be the above mention factors. The success rate of conservative management of appendicular lump was 90.02% (40 out of 43) which is comparable with other studies. There were no mortality among conservatively managed as well as those requiring intervention for complications.

3(6.97%) patient developed appendicular abscess which was managed successfully, two requiring USG guided aspiration and one of them needed laparotomy with appendicectomy post operative period was uneventful. In similar studies failure of conservative management is about 2-3% of the cases with emergency exploration. Similarly 3(6.97%) patient came with recurrent appendicitis and were successfully managed with emergency appendicectomy. 18 patients (41.86%) followed up in the duration of the study period of one year and underwent interval appendicectomy remaining 19 patients (44.18%) lost the follow up.

CONCLUSIONS
Most of the cases of appendicular lump can be managed conservatively but needs strict observation and regular clinical examination of the patient to timely identify complications like abscess formation or perforations and if identified they should be managed immediately.

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Appendicitectomy. Recurrent appendicitis. All of them underwent emergency 18 (41.86%) underwent interval appendicectomy after 6 weeks. Patient recovered well. Out of these conservatively managed, USG guided aspiration and one needed laparotomy. All the common in young age group which is similar to other studies.

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Most of the cases of appendicular lump can be managed conservatively but needs strict observation and regular clinical follow up. Interval appendicectomy remaining 19 patients (44.18%) lost in the duration of the study period of one year and underwent emergency appendicectomy. 18 patients (41.86%) followed up in the duration of the study period of one year and underwent emergency appendicectomy. 18 patients (41.86%) followed up

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