FREQUENCY OF WOUND INFECTION AFTER LAPAROTOMY IN DIFFERENT AGE GROUPS

Abstract: Objective: To determine prevalence of infection of laparotomy wound in different age groups. Design and Duration: This is a cross sectional study started in January 2018 and completed in August 2018, comprising on a total duration of 8 months. Setting: Study was conducted in general surgery unit of a tertiary care hospital Nishtar Hospital Multan. Patients and Methods: Study was conducted on patients admitted in general surgery ward of study institution. These cases were having different diseases. Investigations were done and diagnosis was established, then laparotomy was planned in these cases. Anesthesia fitness was taken and patients were prepared for surgery properly one night before. After laparotomy wound was examined daily and dressing was changed. Patients were admitted after operation for 7-15 days and wound condition was monitored. Results: There were total 150 cases included in this study. There were 100 male cases and 50 female cases. Age of these cases was 20-70 years. Minimum age reported was 22 years and maximum age was 68 years. Normal wound was seen in 70 male cases and 30 female cases. Minor wound infection was in 21 male cases and 9 female cases. Major infection was seen in wounds of 9 male and 9 female cases. It was seen that female cases had more frequency of wound infection than male cases. Conclusion: In old age wound infection is more common than young age because of decreased immunity and poor prognosis of disease. Young patients showed good prognosis.

Key words: Wound infection, Laparotomy, Surgical site infection.

Language: English


Introduction With advancing age many physical changes occur in the body and all body systems become weak with aging. Immunity decreases in old age so wound infections are common. Such patients show poor prognosis due to increased complications. Laparotomy is done in many diseases. It can be done on emergency basis or elective basis. In our study patients from both male and female populations were included. These cases were of all age groups. It was seen that in adults wound infection was not so common as compared to old patients in which minor and even major infection was noted in laparotomy wound. Study was conducted on patients admitted in general surgery ward of study institution. These cases were having different diseases. There were total 150 cases included in this study. There were 100 male cases and 50 female cases. Age of these cases was 20-70 years. Minimum age reported was 22 years and maximum age was 68 years. Investigations were done and diagnosis was established, then laparotomy was planned in these cases. Anesthesia fitness was taken and patients were prepared for surgery properly one night before.
Patients and Methods
This is a cross sectional study conducted in Nishter Hospital Multan, a tertiary care hospital located in a city of Pakistan. Study was completed in duration of eight months. Study was conducted on patients admitted in general surgery ward of study institution. These cases were having different diseases. Investigations were done and diagnosis was established, then laparotomy was planned in these cases. Anesthesia fitness was taken and patients were prepared for surgery properly one night before. After laparotomy wound was examined daily and dressing was changed. Patients were admitted after operation for 7-15 days and wound condition was monitored. There were total 150 cases included in this study. There were 100 male cases and 50 female cases. Age of these cases was 20-70 years. Minimum age reported was 22 years and maximum age was 68 years.

Results
Study was conducted on patients admitted in general surgery ward of study institution. These cases were having different diseases. Investigations were done and diagnosis was established, then laparotomy was planned in these cases. Anesthesia fitness was taken and patients were prepared for surgery properly one night before. There were total 150 cases included in this study. There were 100 male cases and 50 female cases. Age of these cases was 20-70 years. Minimum age reported was 22 years and maximum age was 68 years. Normal wound was seen in 70 male cases and 30 female cases. Minor wound infection was in 21 male cases and 9 female cases. Major infection was seen in wounds of 9 male and 9 female cases. It was seen that female cases had more frequency of wound infection than male cases.

Table 1.

<table>
<thead>
<tr>
<th>Age of patients (years)</th>
<th>Normal Wound</th>
<th>Minor infection</th>
<th>Major infection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male(N=70)</td>
<td>Female(N=30)</td>
<td>Male(N=21)</td>
</tr>
<tr>
<td>20-30</td>
<td>15</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>31-40</td>
<td>22</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>41-50</td>
<td>10</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>51-60</td>
<td>12</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>Above 60</td>
<td>11</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

Discussion
Laparotomy wounds are large and often get infected. Body immunity plays main role in healing of wounds. When healing power of the body is decreased, chances of wound infection increase. With advancing age many physical changes occur in...
the body and all body systems become weak with aging. Immunity decreases in old age so wound infections are common. Such patients show poor prognosis due to increased complications. Laparotomy is done in many diseases. It can be done on emergency basis or elective basis. In our study patients from both male and female populations were included. These cases were of all age groups. It was seen that in adults wound infection was not so common as compared to old patients in which minor and even major infection was noted in laparotomy wound. Study was conducted on patients admitted in general surgery ward of study institution. These cases were having different diseases. There were total 150 cases included in this study. There were 100 male cases and 50 female cases. Age of these cases was 20-70 years. Minimum age reported was 22 years and maximum age was 68 years. Normal wound was seen in 70 male cases and 30 female cases. Minor wound infection was in 21 male cases and 9 female cases. Major infection was seen in wounds of 9 male and 9 female cases. It was seen that female cases had more frequency of wound infection than male cases. This is a cross sectional study conducted in Nishter Hospital Multan, a tertiary care hospital located in a city of Pakistan. Study was completed in duration of eight months. Study was conducted on patients admitted in general surgery ward of study institution.

References: