MATERIAL AND METHODS
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In the present study 121 patients admitted in Surgery Department of M.L.B. Medical College, Hospital, Jhansi between January 1995 to January 1996 have been considered.

All these patients had peritonitis causes ranging from:

1. Perforation:
   - Stomach and duodenum
   - Appendix
   - Colon
   - Small Bowel
   - Genitourinary (Post D and C)

2. Abscesses:
   - Burst liver abscess
   - Pyoperitoneum

3. Haemoperitoneum:
   - Mesentric tear
   - Pancreatitis
   - Vascular injury

Note: Patients with paediatric age (0-36 months) group and patients with post operative peritonitis and of obstruction were not considered in the present study.
For Mannheim Index Information is collected during the first laparotomy, enabling immediate classification.

And for severity of sepsis score, the patients keep in record even in post-operative days.

Following is the working proforma for prediction of mortality and morbidity.

**WORKING PROFORMA**
Peritonities Index

TCPIC : THE MANNHEIM PERITONITIS INDEX AND OTHER GRADING SYSTEMS IN THE EVALUATION OF PERITONEAL SEPSIS.

CASE NO. CONSULTANT

NAME: M.R.D. NO. :

AGE/SEX: WARD/Bed:

ADDRESS: D.O.A. :

D.O.D. :

Diagnosis:

Clinical Presentation

- Age $\geq$ 50 years 5
- Sex, if female 5
- If profuse generalized peritriyonies if $\geq$ 24 hours 4
- Origin of sepsis, not colonic 4
- Malignancy, if present 4
- Type of exudate - Clear 0
  - Cloudy or purulent 6
  - Fecal 12
Organ failure

a. Blood - Serum creatinine
   - Urea
b. Plain X-ray abdomen
c. Mode of surgery
d. Lung - $P_{O_2}$
   - $P_{CO_2}$
e. Urine output
f. Shock if present
g. Intestinal Obstruction (only if profound Paralysis after 24 hrs. or complete mechanical ileus).

GRAND SCORE


OBSERVED SCORE


**GRADING OF SEPSIS**

**Clinical presentation**

- Wound infection with purulent discharge/enterocutaneous fistula
  
a. Requiring only light dressing changed not more than once daily 2
  
b. Requiring to be dressed with a pack dressing needing to be changed more than once daily, requiring application of a bag and/or suction 4
- Peritonitis
  a. Localized peritonitis 2
  b. Generalized peritonitis 6

- Chest infection
  a. Clinical or Radiological signs of chest infection without productive cough 2
  b. Clinical or Radiological signs of chest infection with a cough producing purulent sputum 4
  c. Full clinical manifestation of lobar/bronchopneumonia 6

- Deep seated infection (e.g. subphrenic abscess, pelvic abscess, empyema thoracis, osteomyelitis) 6

- Oral temperature charting
  
<table>
<thead>
<tr>
<th>Temperature Range</th>
<th>6 a.m.</th>
<th>12 a.m.</th>
<th>6 p.m.</th>
<th>12 p.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>36 - 37.4°C</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37.5 - 38.4°C</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>38.5 - 39°C</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;39°C</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤36°C</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Minimum daily temperature if >37.5°C 1

- If 2 or more temperature peaks above 38.4°C in one day 1

- If any rigors occur in a day 1

- Obvious jaundice (with absence of established hepatobiliary disease) 2
- Metabolic Acidosis
  Compensated 1
  Uncompensated 2

- Renal failure if present 3

- Gross disturbance of Mental orientation/ level of consciousness (e.g. delirium, coma) and/or other focal neurological manifestation of pyraxia/manifestation of pyraxia/
  Septicemia (having excluded other causes) 3

- Bleeding diathesis if present 3

- Single positive culture 1

- Two or more positive cultures separated by 24 hrs. 3

- Single positive culture + History of invasive procedure 3

- Single positive culture + cardiac murmur and/or tender enlarge spleen 3

- TLC (X 10^9/L)
  12 - 30 1
  \(-30 2
  \(-2.5 3

- Haemoglobin level (gm/dl)
  7 - 10 1
  10 2

- Platelet count (X 10^9/l)
  100 - 150 1
  \(-100 2
- Plasma albumin (gm/lit)
  \[ \begin{array}{c}
  \geq 31 - 35 \\
  25 - 30 \\
  \leq 25 \\
  \end{array} \]

Total bilirubin level if
\[ \geq 25 \text{ umol/Lit.} \]

\[ \begin{array}{c}
1 \\
2 \\
3 \\
\end{array} \]

GRAND SCORE

OBSERVED SCORE