Table 4.1 provides the number and relative proportion of cancers based on different methods of diagnosis. In males, Kolkata registry (88.3%) had the highest proportion of cases diagnosed microscopically followed by Bhopal (86.4%), Bangalore (83.9%), Delhi (83.8%), Mumbai (83.7%), Barshi (80.6%), Chennai (79.6%) and Ahmedabad district (other than Ahmedabad urban) (79.1%). Cases observed through death certificate only (DCO) ranged from 0.4% in Barshi to 9.0% in Kolkata. Clinically diagnosed cases ranged from 0.1% in Kolkata to 11.2% in Delhi. In females, Kolkata (91.6%) had the highest proportion of cancer cases confirmed microscopically followed by Bhopal (91.1%), Barshi (88.3%), Bangalore (86.9%), Chennai (85.7%), Mumbai (84.0%), Delhi (81.4%) and Ahmedabad district (other than Ahmedabad urban) (80.4%).

**TABLE 4.1: Number (#) & Relative Proportion (%) of cancers based on different methods of Diagnosis**

<table>
<thead>
<tr>
<th>Registries</th>
<th>Microscopic</th>
<th>X-ray</th>
<th>Clinical</th>
<th>Others</th>
<th>DCO</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>#</td>
<td>%</td>
<td>#</td>
<td>%</td>
<td>#</td>
<td>%</td>
</tr>
<tr>
<td><strong>Males</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bangalore</td>
<td>3874</td>
<td>83.9</td>
<td>34</td>
<td>0.7</td>
<td>300</td>
<td>6.5</td>
</tr>
<tr>
<td>Barshi</td>
<td>195</td>
<td>80.6</td>
<td>16</td>
<td>6.6</td>
<td>12</td>
<td>5.0</td>
</tr>
<tr>
<td>Bhopal</td>
<td>937</td>
<td>86.4</td>
<td>52</td>
<td>4.8</td>
<td>31</td>
<td>2.9</td>
</tr>
<tr>
<td>Chennai</td>
<td>3581</td>
<td>79.6</td>
<td>564</td>
<td>12.5</td>
<td>182</td>
<td>4.0</td>
</tr>
<tr>
<td>Delhi</td>
<td>10181</td>
<td>83.8</td>
<td>257</td>
<td>2.1</td>
<td>1366</td>
<td>11.2</td>
</tr>
<tr>
<td>Mumbai</td>
<td>8146</td>
<td>83.7</td>
<td>56</td>
<td>0.6</td>
<td>892</td>
<td>9.2</td>
</tr>
<tr>
<td>Ahmedabad</td>
<td>673</td>
<td>79.1</td>
<td>21</td>
<td>2.5</td>
<td>50</td>
<td>5.9</td>
</tr>
<tr>
<td>Kolkata *</td>
<td>1660</td>
<td>88.3</td>
<td>10</td>
<td>0.5</td>
<td>2</td>
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<tr>
<td><strong>Females</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bangalore</td>
<td>4888</td>
<td>86.9</td>
<td>30</td>
<td>0.5</td>
<td>379</td>
<td>6.7</td>
</tr>
<tr>
<td>Barshi</td>
<td>234</td>
<td>88.3</td>
<td>8</td>
<td>3.0</td>
<td>17</td>
<td>6.4</td>
</tr>
<tr>
<td>Bhopal</td>
<td>974</td>
<td>91.1</td>
<td>25</td>
<td>2.3</td>
<td>31</td>
<td>2.9</td>
</tr>
<tr>
<td>Chennai</td>
<td>4211</td>
<td>85.7</td>
<td>295</td>
<td>6.0</td>
<td>267</td>
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</tr>
<tr>
<td>Delhi</td>
<td>9164</td>
<td>81.4</td>
<td>528</td>
<td>4.7</td>
<td>1376</td>
<td>12.2</td>
</tr>
<tr>
<td>Mumbai</td>
<td>8446</td>
<td>84.0</td>
<td>32</td>
<td>0.3</td>
<td>936</td>
<td>9.3</td>
</tr>
<tr>
<td>Ahmedabad</td>
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<td>80.4</td>
<td>12</td>
<td>2.1</td>
<td>28</td>
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</tr>
<tr>
<td>Kolkata *</td>
<td>1636</td>
<td>91.6</td>
<td>12</td>
<td>0.7</td>
<td>0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

* only 2005 data.
Fig. 4.1(a): Relative Proportion (%) of cancers based on different methods of diagnosis

Males

Bangalore

Barshi

Bhopal

Chennai

Delhi

Mumbai

Ahmedabad

Kolkata
Fig. 4.1(b) : Relative Proportion (%) of cancers based on different methods of diagnosis
Females

Bangalore

Barshi

Bhopal

Chennai

Delhi

Mumbai

Ahmedabad

Kolkata
TABLE 4.2: Number (#) & Relative Proportion (%) of cancers based on different types of Microscopic Diagnosis

<table>
<thead>
<tr>
<th>Site of Cancer</th>
<th>Bangalore</th>
<th>Barshi</th>
<th>Bhopal</th>
<th>Chennai</th>
<th>Delhi</th>
<th>Mumbai</th>
<th>Ahmedabad</th>
<th>Kolkata</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>#</td>
<td>%</td>
<td>#</td>
<td>%</td>
<td>#</td>
<td>%</td>
<td>#</td>
<td>%</td>
</tr>
<tr>
<td><strong>Males</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary Hist.</td>
<td>2891</td>
<td>62.6</td>
<td>151</td>
<td>62.4</td>
<td>724</td>
<td>66.7</td>
<td>3139</td>
<td>69.7</td>
</tr>
<tr>
<td>Sec. Histology</td>
<td>94</td>
<td>2.0</td>
<td>5</td>
<td>2.1</td>
<td>39</td>
<td>3.6</td>
<td>146</td>
<td>3.2</td>
</tr>
<tr>
<td>Cytology</td>
<td>540</td>
<td>11.7</td>
<td>21</td>
<td>8.7</td>
<td>112</td>
<td>10.3</td>
<td>59</td>
<td>1.3</td>
</tr>
<tr>
<td>Blood Film</td>
<td>23</td>
<td>0.5</td>
<td>0</td>
<td>0.0</td>
<td>35</td>
<td>3.2</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Bone Marrow</td>
<td>326</td>
<td>7.1</td>
<td>18</td>
<td>7.4</td>
<td>27</td>
<td>2.5</td>
<td>237</td>
<td>5.3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>4619</td>
<td>100.0</td>
<td>242</td>
<td>100.0</td>
<td>1085</td>
<td>100.0</td>
<td>4501</td>
<td>100.0</td>
</tr>
<tr>
<td><strong>Females</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary Hist.</td>
<td>4173</td>
<td>74.2</td>
<td>192</td>
<td>72.5</td>
<td>823</td>
<td>77.0</td>
<td>3830</td>
<td>78.0</td>
</tr>
<tr>
<td>Sec. Histology</td>
<td>73</td>
<td>1.3</td>
<td>9</td>
<td>3.4</td>
<td>14</td>
<td>1.3</td>
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<td>1.8</td>
</tr>
<tr>
<td>Cytology</td>
<td>398</td>
<td>7.1</td>
<td>27</td>
<td>10.2</td>
<td>97</td>
<td>9.1</td>
<td>115</td>
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</tr>
<tr>
<td>Blood Film</td>
<td>26</td>
<td>0.5</td>
<td>0</td>
<td>0.0</td>
<td>22</td>
<td>2.1</td>
<td>2</td>
<td>0.0</td>
</tr>
<tr>
<td>Bone Marrow</td>
<td>218</td>
<td>3.9</td>
<td>6</td>
<td>2.3</td>
<td>18</td>
<td>1.7</td>
<td>176</td>
<td>3.6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>5627</td>
<td>100.0</td>
<td>265</td>
<td>100.0</td>
<td>1069</td>
<td>100.0</td>
<td>4912</td>
<td>100.0</td>
</tr>
</tbody>
</table>

* only 2005 data.

Among females, there were no cases diagnosed through Death Certificates in Barshi while there were 7.7% of cases diagnosed through Death Certificates in Ahmedabad district (other than Ahmedabad urban). In Kolkata registry, there were no cases with a clinical diagnosis while there were 12.2% clinically diagnosed cases in Delhi registry.

Table 4.2 illustrates the proportion of different types of microscopic diagnosis. Among the cancers diagnosed microscopically, primary histology constituted 62.4% in Barshi to 71.5% in Mumbai in males while Cancers diagnosed by cytology ranged from 1.2% in Mumbai to 11.7% in Bangalore. In females, the percentage of cases diagnosed by primary histology varied from 62.7% in Delhi to 78.0% in Chennai. The percentage of cases diagnosed by cytology varied from 1.6% in Mumbai to 12.6% in Delhi.

The relative proportion (%) of cancers based on different methods of diagnosis are represented in fig. 4.1 (a & b) and fig. 4.2 (a & b) shows the relative proportion (%) of different types of microscopic diagnosis.
Fig. 4.2(a): Relative Proportion (%) of cancers based on different types of Microscopic Diagnosis

Males

**Bangalore**
- Primary Histology: 62.6%
- Secondary Histology: 2.0%
- Cytology: 11.7%
- Blood Film: 0.5%
- Bone Marrow: 7.1%

**Barshi**
- Primary Histology: 62.4%
- Secondary Histology: 2.1%
- Cytology: 8.7%
- Blood Film: 0.0%
- Bone Marrow: 7.4%

**Bhopal**
- Primary Histology: 66.7%
- Secondary Histology: 3.6%
- Cytology: 10.3%
- Blood Film: 3.2%
- Bone Marrow: 2.5%

**Chennai**
- Primary Histology: 69.7%
- Secondary Histology: 3.2%
- Cytology: 1.3%
- Blood Film: 0.0%
- Bone Marrow: 5.3%

**Delhi**
- Primary Histology: 64.8%
- Secondary Histology: 1.6%
- Cytology: 9.0%
- Blood Film: 0.0%
- Bone Marrow: 8.4%

**Mumbai**
- Primary Histology: 71.5%
- Secondary Histology: 3.4%
- Cytology: 1.2%
- Blood Film: 1.5%
- Bone Marrow: 6.1%

**Ahmedabad**
- Primary Histology: 64.7%
- Secondary Histology: 4.0%
- Cytology: 4.8%
- Blood Film: 0.2%
- Bone Marrow: 5.3%

**Kolkata**
- Primary Histology: 64.4%
- Secondary Histology: 11.2%
- Cytology: 8.7%
- Blood Film: 0.0%
- Bone Marrow: 4.0%
Fig. 4.2(b) : Relative Proportion (%) of cancers based on different types of Microscopic Diagnosis

Females

Consolidated Report of the PBCRs: 2004-2005

Basis of Diagnosis

Bangalore

- Primary Histology: 74.2%
- Secondary Histology: 3.4%
- Cytology: 10.2%
- Blood Film: 1.3%
- Bone Marrow: 0.5%

Barshi

- Primary Histology: 72.5%
- Secondary Histology: 3.4%
- Cytology: 10.2%
- Blood Film: 3.9%
- Bone Marrow: 2.3%

Bhopal

- Primary Histology: 77.0%
- Secondary Histology: 9.1%
- Cytology: 2.1%
- Blood Film: 1.7%
- Bone Marrow: 1.3%

Chennai

- Primary Histology: 78.0%
- Secondary Histology: 3.6%
- Cytology: 2.3%
- Blood Film: 1.8%
- Bone Marrow: 0.0%

Delhi

- Primary Histology: 62.7%
- Secondary Histology: 12.6%
- Cytology: 5.1%
- Blood Film: 0.0%
- Bone Marrow: 1.0%

Mumbai

- Primary Histology: 75.4%
- Secondary Histology: 3.4%
- Cytology: 1.6%
- Blood Film: 2.8%
- Bone Marrow: 0.9%

Ahmedabad

- Primary Histology: 70.2%
- Secondary Histology: 4.6%
- Cytology: 3.4%
- Blood Film: 1.8%
- Bone Marrow: 0.4%

Kolkata

- Primary Histology: 71.2%
- Secondary Histology: 7.6%
- Cytology: 2.5%
- Blood Film: 10.2%
- Bone Marrow: 0.0%