Chapter 9 gives the comprehensive picture of head and neck cancers. These include cancers of tongue, mouth, nasopharynx, pharynx and larynx.

Table 9.1 gives the number and relative proportion of head and neck cancers relative to all sites of cancers. Overall, head and neck cancers accounted for around 30% of all cancers in males. In females, head and neck cancers ranged from 4.8% in Chandigarh to 15.0% in Guwahati of all sites of cancers.

Table 9.2 and Figure 9.1 depict the relative proportion of specific sites of head and neck cancers relative to all sites of cancer. Table 9.3 and Fig. 9.2 give the number and relative proportion of specific sites that constitute head and neck cancers. In males tongue, mouth and other pharynx contributed to more than 80% of the total cases of head and neck cancers except in Chandigarh where it is around 72%. Among females mouth cancer was the leading contributor to head and neck cancers in all registries except in Chandigarh where the relative proportion of cancer of the tongue (38.0%) was higher than mouth cancer and in Dibrugarh the proportion of other pharynx was higher (37.7%) than mouth.

Table 9.1: Number (#) and Proportion (%) of Head and Neck Cancers Relative to All Sites of Cancer (2007-2011)

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### Table 9.2: Number (#) and Relative Proportion (%) of Specific Head and Neck Cancers Relative to All Sites of Cancer (2007-2011)

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**Consolidated Report of the HBCRs: 2007-2011**

**Fig. 9.1: Proportion (%) of Head and Neck Cancers Relative to All Sites (2007-2011)**

- Male and female populations
- Specific sites: Tongue, Mouth, Nasopharynx, Other Pharynx, Larynx, Head and Neck
- Comparative data across different cities (Mumbai, Bangalore, Chennai, Thr'puram, Dibrugarh, Guwahati, Chandigarh)
### Table 9.3: Number (#) and Relative Proportion (%) of Specific Head and Neck Sites Relative to All Head and Neck Cancers (2007-2011)

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Fig. 9.2: Stack (100%) Diagram Showing Proportion (%) of Specific Head and Neck Cancer Sites Relative to All Head and Neck Cancers (2007-2011)
### Males

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All Ages: 6805 | 100.0 |

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<td>93</td>
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</tr>
</tbody>
</table>

All Ages: 1673 | 100.0 |
Fig. 9.3: Relative Proportion (%) of Head and Neck Cancers by Five-Year Age Group (2007-2011)

Males

![Graph showing the relative proportion (%) of head and neck cancers by five-year age group for males.](image)

Females

![Graph showing the relative proportion (%) of head and neck cancers by five-year age group for females.](image)
Cancer of the Tongue is an important site contributing a quarter of all head and neck cancers. Cancer of the tongue was among the five leading sites in all HBCRs among males and in females it was among the ten leading sites in Mumbai, Thiruvananthapuram, Dibrugarh and Guwahati.

Table 9.5 gives the number and relative proportion of cancers of tongue to all sites. Table 9.6 shows the distribution of tongue cancers by five year age group. The predominant form of diagnosis of cancer was through microscopic examination (Table 9.7). Table 9.8 gives the relative proportion of tongue cancer according to broad groups of treatment.

Table 9.9 gives the distribution of tongue cancer according to the clinical extent of disease. The regional spread of the disease varied from 43.6% in Mumbai to 96.1% in Dibrugarh.

Table 9.10 gives the picture of the types of treatment given to these patients.

Table 9.5: Number (#) and Relative Proportion (%) (Relative to All Sites) (2007-2011)
Tongue (ICD-10: C01-C02)

<table>
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<th></th>
<th>Females</th>
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<td>Total</td>
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### Table 9.6: Number (#) and Relative Proportion (%) according to Five-Year Age Group (2007-2011) - Tongue (ICD-10: C01-C02)

#### Males

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<th>Thiruvananthapuram</th>
<th>Dibrugarh</th>
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#### Females

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<th>Vizianagaram</th>
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<th>Guwahati</th>
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</table>
Table 9.7: Number (#) and Relative Proportion (%) Based on Different Methods of Diagnosis (2007-2011) - Tongue (ICD-10: C01-C02)

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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

| FEMALES |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mumbai  | 428 | 94.7 | - | - | 24 | 5.3 | - | - | - | - | 452 | 100.0 |
| Bangalore | 155 | 95.1 | - | - | 5 | 3.1 | - | - | 3 | 1.8 | 163 | 100.0 |
| Chennai  | 225 | 73.8 | - | - | 80 | 26.2 | - | - | - | - | 305 | 100.0 |
| Thi’puram | 533 | 97.3 | - | - | 15 | 2.7 | - | - | - | - | 548 | 100.0 |
| Dibrugarh | 51 | 100.0 | - | - | - | - | - | - | - | - | 51 | 100.0 |
| Guwahati | 134 | 99.3 | - | - | 1 | 0.7 | - | - | - | - | 135 | 100.0 |
| Chandigarh | 37 | 97.4 | 1 | 2.6 | - | - | - | - | - | - | 38 | 100.0 |

Table 9.8: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Tongue (ICD-10: C01-C02)

<table>
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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
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<th>Chandigarh</th>
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<td></td>
<td></td>
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<td>52</td>
</tr>
<tr>
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<td>0.3</td>
<td>86</td>
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<tr>
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<td>383</td>
<td>50.8</td>
<td>571</td>
<td>53.8</td>
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<td>754</td>
<td>100.0</td>
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<td>100.0</td>
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| FEMALES         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Prior Tmt. Only | 42 | 9.3 | 8 | 4.9 | 30 | 9.8 | 9 | 1.6 | - | - | 3 | 2.2 | - | - |
| Prior & Tmt. at RI | 20 | 4.4 | 5 | 3.1 | 4 | 1.3 | 45 | 8.2 | - | - | 5 | 3.7 | 6 | 15.8 |
| Tmt. Only at RI  | 184 | 40.7 | 86 | 52.8 | 108 | 35.4 | 430 | 78.5 | 47 | 92.2 | 95 | 70.4 | 24 | 63.2 |
| No CDT*          | 206 | 45.6 | 64 | 39.3 | 163 | 53.4 | 64 | 11.7 | 4 | 7.8 | 32 | 23.7 | 8 | 21.1 |
| Total Patients   | 452 | 100.0 | 163 | 100.0 | 305 | 100.0 | 548 | 100.0 | 51 | 100.0 | 135 | 100.0 | 38 | 100.0 |

*CDT = Cancer Directed Treatment
Table 9.9: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Tongue (ICD-10: C01-C02)

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<th>Others</th>
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“Diagnosis is not the end, but the beginning of practice.”

- Martin H. Fischer
### Table 9.10: Number (\#) and Relative Proportion (%) according to Type of Treatment given (2007-2011) - Tongue (ICD-10: C01-C02)

#### Males

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MOUTH (ICD-10: C03-C06)

The total number and relative proportion of the cancers of mouth in males and females for the years (2007-2011) are given in Table 9.11. Cancer of the mouth was the leading site in Mumbai in males and was within the five leading sites in all registries in both males and females except in males and females in Chandigarh and in females in Dibrugarh.

Table 9.12 shows the distribution of mouth cancers by five year age group. The predominant form of diagnosis of cancer (>92%) was through microscopic examination (Table 9.13) except in Chennai where the proportion of microscopically diagnosed patients was 70.2% among males and 64.1% among females. Table 9.14 gives the relative proportion of mouth cancer according to broad groups of treatment.

Table 9.15 gives the distribution of mouth cancer according to the clinical extent of disease. The regional spread of the disease varied from 54.8% in Mumbai males to 96.5% in Dibrugarh females. Table 9.16 gives the picture of the types of treatment given to these patients.

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Table 9.11: Number(#) and Relative Proportion(%) (2007-2011) Mouth (ICD-10: C03-C06)
Table 9.12: Number (#) and Relative Proportion (%) according to Five-Year Age Group (2007-2011) - Mouth (ICD-10: C03-C06)

### Males

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Unk. Age = Unknown Age
Table 9.13: Number (#) and Relative Proportion (%) Based on Different Methods of Diagnosis (2007-2011) - Mouth (ICD-10: C03-C06)

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Table 9.14: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Mouth (ICD-10: C03-C06)

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<th>Treatment Group</th>
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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
<th>Chandigarh</th>
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<td>12</td>
<td>1.6</td>
<td>4</td>
<td>0.3</td>
<td>73</td>
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<tr>
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<td>40.4</td>
<td>338</td>
<td>46.2</td>
<td>424</td>
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<td>1204</td>
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*CDT = Cancer Directed Treatment
Table 9.15: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Mouth (ICD-10: C03-C06)

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<th>Regional (R)</th>
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<th>Others</th>
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<td>54.8</td>
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<td>588</td>
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<td>653</td>
<td>94.2</td>
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“Drugs are not always necessary. But belief in recovery always is.”

- Norman Cousins
Table 9.16: Number (#) and Relative Proportion (%) according to Type of Treatment Given (Patients Treated Only at Reporting Institution) (2007-2011) - Mouth (ICD-10: C03-C06)

**Males**

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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
<th>Chandigarh</th>
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**Females**

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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
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Mouth Cancer
**NASOPHARYNX (ICD-10: C11)**

The total number, relative proportion of cancer of the nasopharynx in males and females for the years (2007-2011) are given in Table 9.17. The range of contribution of nasopharyngeal cancer to all sites varies from 0.2% in Chandigarh females to 1.1% among males in Dibrugarh and Guwahati.

Table 9.18 shows the distribution of nasopharyngeal cancers by five year age group. The predominant form of diagnosis of cancer was through microscopic examination (Table 9.19). Table 9.20 gives the relative proportion of nasopharyngeal cancer according to broad groups of treatment.

Table 9.21 gives the distribution of cancer of the nasopharynx according to the clinical extent of disease. The regional spread of the disease varied from 42.9% in Mumbai females to 100% in females in Dibrugarh, Guwahati and Chandigarh.

Table 9.22 gives the picture of the types of treatment given to these patients.

### Table 9.17: Number (#) and Relative Proportion (%) to All Sites of Cancers (2007-2011)

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<th>Females</th>
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<td>%</td>
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### Table 9.18: Number (\#) and Relative Proportion (%) according to Five-Year Age Group (2007-2011) - Nasopharynx (ICD-10: C11)

#### Males

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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
<th>Chandigarh</th>
</tr>
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<td>%</td>
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#### Females

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### Table 9.19: Number (#) and Relative Proportion (%) Based on Different Methods of Diagnosis (2007-2011) - Nasopharynx (ICD-10: C11)

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### Table 9.20: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Nasopharynx (ICD-10: C11)

<table>
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<th>Chennai</th>
<th>Thi'puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
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<td>105</td>
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<td>45.9</td>
<td>81</td>
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<td>61</td>
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<td>155</td>
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<td>100.0</td>
<td>55</td>
<td>100.0</td>
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*CDT=Cancer Directed Treatment*
Table 9.21: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Nasopharynx (ICD-10: C11)

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“The only equipment lack in the modern hospital? Somebody to meet you at the entrance with a handshake! “

- Martin H. Fischer
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Females

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PHARYNX (ICD-10: C09-C10, C12-C14)

The total number, relative proportion of cancer of the group “Other Pharynx” (ICD-10: C09-C10, C12-C14) in males and females for the years (2007-2011) are given in Table 9.23. The relative proportion of pharyngeal cancer to all sites varied from 0.9% in females in Thiruvananthapuram to 22.6% among males in Dibrugarh.

Table 9.24 shows the distribution of these cancers by five year age group. The predominant form of diagnosis of cancer (>95%) was through microscopic examination (Table 9.25) except in Chennai where the proportion of microscopically diagnosed patients were 70.1% among males and 74.3% among females. Table 9.26 gives the relative proportion of cancer of pharynx according to broad groups of treatment.

Table 9.27 gives the distribution of pharyngeal cancer according to the clinical extent of disease. The regional spread of the disease varied from 62.9% in Mumbai males to 97.7% in Dibrugarh males.

Table 9.28 gives the picture of the types of treatment given to these patients.

Table 9.23: Number (#) and Relative Proportion (%) (2007-2011) - Both Sexes
Pharynx (ICD-10: C09-C10, C12-C14)

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Table 9.24: Number (#) and Relative Proportion (%) according to Five-Year age Group (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)

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Unk. Age = Unknown Age
Table 9.25: Number (#) and Relative Proportion (%) Based on Different Methods of Diagnosis (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)

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Table 9.26: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)

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<tr>
<th>Treatment Group</th>
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<th>Bangalore</th>
<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
<th>Chandigarh</th>
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<td>1.9</td>
<td>17</td>
<td>1.1</td>
<td>-</td>
<td>-</td>
<td>33</td>
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<tr>
<td>Tmt. Only at RI</td>
<td>480</td>
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<td>589</td>
<td>38.3</td>
<td>263</td>
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<td>789</td>
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<td>895</td>
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<td>877</td>
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<td>494</td>
<td>100.0</td>
<td>178</td>
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*CDT=Cancer Directed Treatment
Table 9.27: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)

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<th>Others</th>
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<td>832</td>
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</table>
Table 9.28: Number (#) and Relative Proportion (%) according to Type of Treatment Given (Patients Treated only at Reporting Institution) (2007-2011) - Pharynx (ICD-10: C09-C10, C12-C14)

### Males

<table>
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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
<th>Chandigarh</th>
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<td>#</td>
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### Females

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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
<th>Chandigarh</th>
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LARYNX (ICD-10: C32)

The total number, relative proportion of cancer of larynx in males and females for the years (2007-2011) are given in Table 9.29. The proportion of laryngeal cancer relative to all sites varied from 0.2% in Thiruvananthapuram among females to 5.6% among males in Guwahati.

Table 9.30 shows the distribution of cancer of larynx by five year age group. The predominant form of diagnosis of cancer (>91%) was through microscopic examination (Table 9.31) except in Chennai where the proportion of microscopically diagnosed patients was 77% among males and 65.6% among females.

Table 9.32 gives the relative proportion of laryngeal cancer according to broad groups of treatment.

Table 9.33 gives the distribution of laryngeal cancer according to the clinical extent of disease. The regional spread of the disease varied from 46% in males in Mumbai to 91.7% in Dibrugarh in females.

Table 9.34 gives the picture of the types of treatment given to these patients.

Table 9.29: Number (#) and Relative Proportion (%) (2007-2011)
Larynx (ICD-10: C32)

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Table 9.30: Number (#) and Relative Proportion (%) according to Five-Year Age Group (2007-2011) - Larynx (ICD-10: C32)

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Table 9.32: Number (#) and Relative Proportion (%) according to Broad Groups of Treatment (Tmt.) (2007-2011) - Larynx (ICD-10: C32)

<table>
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<th>Treatment Group</th>
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<th>Chennai</th>
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<th>Dibrugarh</th>
<th>Guwahati</th>
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<tbody>
<tr>
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<td>%</td>
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<tr>
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*CDT = Cancer Directed Treatment
### Table 9.33: Number (#) and Relative Proportion (%) according to the Clinical Extent of Disease (Excludes Patients Previously Treated) (2007-2011) - Larynx (ICD-10: C32)

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<th>Registry</th>
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<th>Regional (R)</th>
<th>L+R</th>
<th>Distant</th>
<th>Others</th>
<th>Unknown</th>
<th>All Stages</th>
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<td>397</td>
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<td>17</td>
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<td>513</td>
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Table 9.34: Number (#) and Relative Proportion (%) according to Type of Treatment Given (Patients Treated Only at Reporting Institution) (2007-2011) - Larynx (ICD-10: C32)

### Males

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<th>Mumbai</th>
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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
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<td>100.0</td>
<td>100.0</td>
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<td>100.0</td>
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#### Specific Treatments

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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
<th>Chandigarh</th>
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<td>0.8</td>
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<td>-</td>
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<td>5</td>
<td>9</td>
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#### Modality of Therapy

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<th>Guwahati</th>
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#### Type of Any Treatment

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<th>Dibrugarh</th>
<th>Guwahati</th>
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<td>214</td>
<td>571</td>
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<th>Chennai</th>
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<th>Dibrugarh</th>
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#### Specific Treatments

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<th>Chennai</th>
<th>Thi’puram</th>
<th>Dibrugarh</th>
<th>Guwahati</th>
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<td>-</td>
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<td>2.9</td>
</tr>
<tr>
<td>S + C</td>
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<td>1</td>
<td>2.9</td>
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<tr>
<td>S + R + C</td>
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<td>-</td>
<td>-</td>
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<td>3.3</td>
<td>1</td>
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#### Modality of Therapy

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#### Type of Any Treatment

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