

Report of Head and Neck Cancer Registry of Japan
Clinical Statistics of Registered Patients, 2015

Japan Society for Head and Neck Cancer
Cancer Registry Committee

Preface

The Head and Neck Cancer Registry in Japan has been supported by the Japan Society for Head and Neck Cancer (JSHNC) since 2003. The annual reports have been published from 2003 to 2005 as supplements of the journal of the JSHNC. Because the Act of the Protection of Personal Information (APPI) was enforced in 2005, JSHNC had decided to discontinue this registration in 2004 and thereafter. After a seven-year interval, the JSHNC restarted the registry using the system of University hospital Medical Information Network (UMIN) Center in Japan. The online registration for patients in 2011 was initiated on May 25, 2012 after renewing the contents and methods of registration. This report is for the fifth year of the registration after its renewal.

The importance of cancer registration has been recognized widely in Japan since the Act of Propulsion of Cancer Registration in 2013. Moreover, the number of participating institutions has increased since the Japanese Society of Head and Neck Surgery (JSHNS) decided a revision in the regime for the specialists and institutions of head and neck cancer in 2014.

The improved Ethical Guidelines for Medical and Health Research Involving Human Subjects have been publicly announced on Feb 28, 2017 and the revised APPI was enforced on May 30, 2017 in Japan, so that the procedure for informed consent was changed and the data traceability was taken into consideration in this registration thereafter. The minor refinements of the contents are being prepared for introduction of the 8th UICC TNM classification. Moreover, the data center and secretariat have been established in this registration system from July 2017. The data collection contents will be expanded to include the information on prognosis from this year. Although we might experience not only positive but negative impacts of these changes during the coming years, these reforms according to social, medical needs are important to achieve the further development of this registry. We expect that this vast organ-based registry led by doctors with an increase in the number of participating institutions, will help better understand the statistics and modes of treatment of head and neck cancer, besides the hospital-based or population-based cancer registry in Japan.

We would like to express our deepest appreciation to all the doctors in the participating institutions. Furthermore, we would like to express our gratitude to the JSHNS, the member of specialists for head and neck cancer, and the members of UMIN Center as well.

October 13, 2017

Ryuichi Hayashi, MD
Chairperson of the Board of Directors
Satoshi Fukuda, MD
Chief Director of Cancer Registry
Munenaga Nakamizo, MD
Chairperson of Cancer Registry Committee
Japan Society for Head and Neck Cancer

Cancer Registry Committee 2016
Japan Society for Head and Neck Cancer

Directors	Satoshi Fukuda, Ryuichi Hayashi, Yasumasa Nishimura
Chairperson	Munenaga Nakamizo
Members	Yoshihide Ota, Hideaki Chazono, Katsumasa Nakamura, Hiroyuki Harada, Yasushi Fujimoto, and Seiichi Yoshimoto

Data Collection

All the doctors who are members of the Japan Society for Head and Neck Cancer are advised to participate in the registration of cancer patients. More than one doctor from an institution could participate in this registration. A participant is provided a UMIN (University hospital Medical Information Network in Japan) ID and a password for INDICE (Internet Data and Information Center for Medical Research) from the UMIN center and registers the data of the cases in their institute to the INDICE system online. The completed registration provides information regarding the patients' age, gender, tumor pathology, TNM classification, therapies (surgery, radiation and chemotherapy), and prognosis. This year, the fifth year of registration, all the data stored in the INDICE system were reviewed by head and neck oncologists and analyzed from all aspects, except the prognosis.

Registration was restricted to previously untreated malignant head and neck tumor cases which had a confirmed pathological diagnosis, i.e. in the oral cavity, larynx, hypopharynx, oropharynx, nasopharynx, nasal cavity, paranasal sinuses, and major salivary glands. Tumors arising in the cervical esophagus and thyroid gland were excluded from the registry. These head and neck tumors were classified according the General Rules for Clinical Studies on Head and Neck Cancer (The Fifth Edition, June 2012, Japan Society for Head and Neck Cancer), which are based on the TNM Classification of Malignant Tumours (Seventh Edition, 2009) of the International Union Against Cancer (UICC).

A total of 23,101 cases (including cases other than in the year 2015 and with unknown presentation of diseases, unknown aim for therapies, previously treated) were registered from Jan. 23, 2015 to Feb. 22, 2017. Data correction by each institution is allowed once by the system, and the data registered before Feb. 22, 2017, were checked and corrected after confirming with each institution, whereas, any data correction after the date by themselves were not verified. The total number of previously untreated patients was 9,527 for the starting date of the initial therapy from Jan. 1 to Dec. 31, 2015, after excluding cases other than in the year 2015 and with unknown presentation of diseases and duplicated registration.

List of 173 Institutions which participate in the Registry in 2015

1. Department of Otorhinolaryngology, Japanese Red Cross Kitami Hospital
2. Department of Otorhinolaryngology, Asahikawa Medical University Hospital
3. Department of Otorhinolaryngology, Kushiro City General Hospital
4. Department of Dentistry and Oral Surgery, Hokuto Hospital
5. Department of Otorhinolaryngology, Obihiro Kosei Hospital
6. Department of Otorhinolaryngology, Keiyukai Sapporo Hospital
7. Department of Oral Surgery and Otorhinolaryngology, Sapporo Medical University Hospital
8. Department of Otorhinolaryngology, Sapporo City General Hospital
9. Department of Otorhinolaryngology, Teine Keijinkai Hospital
10. Department of Otorhinolaryngology, KKR Sapporo Medical Center
11. Department of Head and Neck Surgery, Hokkaido Cancer Center
12. Department of Oral Surgery, Hokkaido University Hospital
13. Department of Otorhinolaryngology, Hokkaido University Hospital
14. Department of Otorhinolaryngology, Hirosaki University Hospital
15. Department of Otorhinolaryngology, Iwate Medical University Hospital
16. Department of Otorhinolaryngology, Akita University Hospital
17. Department of Head and Neck Surgery, Miyagi Cancer Center
18. Department of Otorhinolaryngology, Sendai Medical Center
19. Department of Otorhinolaryngology, Tohoku University Hospital
20. Department of Otorhinolaryngology, Yamagata Prefectural Central Hospital
21. Department of Otorhinolaryngology, Yamagata University Hospital
22. Department of Otorhinolaryngology, Minami Tohoku Hospital
23. Department of Otorhinolaryngology, Fukushima Medical University Hospital
24. Department of Head and Neck Surgery, Niigata Cancer Center
25. Department of Otorhinolaryngology, Niigata City General Hospital
26. Department of Otorhinolaryngology, Niigata University
27. Department of Otorhinolaryngology, Japanese Red Cross Nagaoka Hospital
28. Department of Otorhinolaryngology, Ibaraki Prefectural Central Hospital
29. Department of Otorhinolaryngology, Tsukuba University Hospital
30. Department of Otorhinolaryngology, Saiseikai Utsunomiya Hospital

List of 173 Institutions which participate in the Registry in 2015

31. Department of Otorhinolaryngology, Jichi University Hospital
32. Department of Otorhinolaryngology, Dokkyo Medical University Hospital
33. Department of Head and Neck Surgery, Gunma Prefectural Cancer Center
34. Department of Otorhinolaryngology, Gunma University Hospital
35. Department of Head and Neck Surgery, Saitama Medical University International Medical Center
36. Department of Oral Surgery, Saitama Cancer Center
37. Department of Head and Neck Surgery, Saitama Cancer Center
38. Department of Otorhinolaryngology, Ageo Central General Hospital
39. Department of Otorhinolaryngology, National Defense Medical College Hospital
40. Department of Otorhinolaryngology, Kameda Medical Center
41. Department of Otorhinolaryngology, Kimitsu Chuo Hospital
42. Division of Head and Neck Surgery, National Cancer Center Hospital East
43. Department of Otorhinolaryngology, Japanese Red Cross Narita Hospital
44. Department of Head and Neck Surgery, Chiba Cancer Center
45. Department of Oral Surgery, Chiba University Hospital
46. Department of Otorhinolaryngology, Chiba University Hospital
47. Department of Otorhinolaryngology, NTT Medical Center Tokyo
48. Department of Head and Neck Surgery, Cancer Institute Hospital
49. Department of Otorhinolaryngology, Kyorin University Hospital
50. Department of Otorhinolaryngology, Keio University Hospital
51. Department of Otorhinolaryngology, Showa General Hospital
52. Head and Neck Oncology Center, International University of Health and Welfare, Mita Hospital
53. Department of Head and Neck Surgery, National Cancer Center Hospital
54. Department of Otorhinolaryngology, Juntendo University Hospital
55. Department of Otorhinolaryngology, Showa University Hospital
56. Department of Otorhinolaryngology, Teikyo University Hospital
57. Department of Otorhinolaryngology, Tokyo Metropolitan Cancer and Infectious Disease Center Komagome Hospital

List of 173 Institutions which participate in the Registry in 2015

58. Department of Otorhinolaryngology, Head and Neck Surgery, Faculty of Medicine, Tokyo Medical and Dental University Hospital
59. Department of Maxillofacial Surgery, Faculty of Dentistry, Tokyo Medical and Dental University Hospital
60. Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Tokyo Medical and Dental University Hospital
61. Department of Otorhinolaryngology, Tokyo Medical University, Hachioji Medical Center
62. Department of Otorhinolaryngology, Tokyo Medical University Hospital
63. Department of Otorhinolaryngology, Jikei University Hospital
64. Department of Otorhinolaryngology, Jikei University Daisan Hospital
65. Department of Otorhinolaryngology, The University of Tokyo Hospital
66. Department of Otorhinolaryngology, Tokyo Saiseikai Central Hospital
67. Department of Otorhinolaryngology, Tokyo Metropolitan Tama Medical Center
68. Department of Oral Surgery, Tokyo Metropolitan Ohtsuka Hospital
69. Department of Otorhinolaryngology and Oral Surgery, Tokyo Medical Center
70. Department of Otorhinolaryngology, Nippon Medical School Hospital
71. Department of Oral Surgery, Nippon Dental University Hospital
72. Division of Head and Neck Surgery, Nerima Hikarigaoka Hospital
73. Department of Otorhinolaryngology, Yokosuka Kyosai Hospital
74. Department of Dentistry and Oral Surgery, Yokohama City University Hospital
75. Department of Otorhinolaryngology, Yokohama City University Hospital
76. Department of Head and Neck Surgery, Kanagawa Cancer Center
77. Department of Otorhinolaryngology, St.Marianna University School of Medicine Hospital
78. Department of Otorhinolaryngology, Kawasaki Municipal Hospital
79. Department of Oral and Maxillofacial Surgery, Tsurumi University Dental Hospital
80. Department of Otorhinolaryngology, Tokai University Hospital
81. Department of Otorhinolaryngology, Kitasato University Hospital
82. Department of Otorhinolaryngology, Shinshu University Hospital
83. Department of Otorhinolaryngology, Yamanashi University Hospital

List of 173 Institutions which participate in the Registry in 2015

84. Department of Otorhinolaryngology and Oral surgery, Yamanashi Prefectural Central Hospital
85. Department of Head and Neck Surgery, Shizuoka Cancer Center
86. Department of Otorhinolaryngology, Seirei Hamamatsu General Hospital
87. Department of Otorhinolaryngology, Hamamatsu University Hospital
88. Department of Otorhinolaryngology, Toyohashi Municipal Hospital
89. Department of Dentistry and Oral Surgery, Kouseiren Takaoka Hospital
90. Department of Otorhinolaryngology, Toyama University Hospital
91. Department of Otorhinolaryngology, Kanazawa University Hospital
92. Department of Otorhinolaryngology, Kanazawa Medical University Hospital
93. Department of Otorhinolaryngology, Aichi Medical University Hospital
94. Department of Head and Neck Surgery, Aichi Cancer Center
95. Department of Otorhinolaryngology, Chubu Rousai Hospital
96. Department of Otorhinolaryngology, Fujita Health University Hospital
97. Department of Otorhinolaryngology, Nagoya City University Hospital
98. Department of Otorhinolaryngology and Oral Surgery, Nagoya University Hospital
99. Department of Otorhinolaryngology, Japanese Red Cross Nagoya Daiichi Hospital
100. Department of Otorhinolaryngology, Fukui University Hospital
101. Department of Head and Neck Surgery, Kusatsu General Hospital
102. Department of Otorhinolaryngology, Shiga University of Medical Science Hospital
103. Department of Otorhinolaryngology, Japanese Red Cross Otsu Hospital
104. Department of Otorhinolaryngology, Ise Red Cross Hospital
105. Department of Otorhinolaryngology, Mie University Hospital
106. Department of Otorhinolaryngology, Kyoto Medical Center
107. Department of Otorhinolaryngology, Kyoto University Hospital
108. Department of Otorhinolaryngology, Japanese Red Cross Kyoto Daiichi Hospital
109. Department of Otorhinolaryngology, Japanese Red Cross Kyoto Daini Hospital
110. Department of Otorhinolaryngology, Kyoto Prefectural University Hospital
111. Department of Otorhinolaryngology, Kinki University Nara Hospital
112. Department of Otorhinolaryngology, Nara City Hospital
113. Department of Otorhinolaryngology, Tenri Hospital

List of 173 Institutions which participate in the Registry in 2015

114. Department of Otorhinolaryngology and Oral Surgery, Nara Medical University Hospital
115. Department of Otorhinolaryngology, Osaka Rosai Hospital
116. Department of Otorhinolaryngology, Kansai Medical University Takii Hospital
117. Department of Oral and Maxillofacial Surgery and Otorhinolaryngology, Kinki University Hospital
118. Department of Otorhinolaryngology, Kishiwada City Hospital
119. Department of Otorhinolaryngology, Osaka Medical College Hospital
120. Department of Otorhinolaryngology, Osaka City General Hospital
121. Department of Otorhinolaryngology, Osaka City University Hospital
122. Department of Otorhinolaryngology, Japanese Red Cross Osaka Hospital
123. Department of Oral Surgery, Osaka Dental University Hospital
124. Department of Otorhinolaryngology, Osaka Saiseikai Nakatsu Hospital
125. Department of Otorhinolaryngology, Osaka General Medical Center
126. Department of Otorhinolaryngology, Osaka International Cancer Center
127. Department of Otorhinolaryngology, Rinku General Medical Center
128. Department of Otorhinolaryngology, Kansai Rosai Hospital
129. Department of Oral Surgery and Otorhinolaryngology, Wakayama Medical University Hospital
130. Department of Otorhinolaryngology, Japanese Red Cross Wakayama Medical Center
131. Department of Otorhinolaryngology, Kobe City Medical Center General Hospital
132. Department of Otorhinolaryngology, Kobe University Hospital
133. Department of Otorhinolaryngology, Hyogo College of Medicine
134. Department of Otorhinolaryngology, Hyogo Cancer Center
135. Department of Otorhinolaryngology, Hyogo Prefectural Amagasaki General Medical Center
136. Department of Otorhinolaryngology, Tottori University Hospital
137. Department of Otorhinolaryngology, Kawasaki Medical School Hospital
138. Department of Otorhinolaryngology, Kurashiki Central Hospital
139. Department of Otorhinolaryngology, Shimane University Hospital
140. Department of Otorhinolaryngology, Fukuyama City Hospital

List of 173 Institutions which participate in the Registry in 2015

141. Department of Otorhinolaryngology, Hiroshima City Hiroshima Citizens Hospital
142. Department of Otorhinolaryngology, Hiroshima Red Cross Hospital & Atomic-bomb Survivors Hospital
143. Department of Otorhinolaryngology, Hiroshima University Hospital
144. Department of Otorhinolaryngology, Miyoshi Central Hospital
145. Department of Otorhinolaryngology, Kure Medical Center and Chugoku Cancer Center
146. Department of Otorhinolaryngology, Yamaguchi University Hospital
147. Department of Otorhinolaryngology, Ehime Prefectural Central Hospital
148. Department of Otorhinolaryngology, Ehime University Hospital
149. Department of Head and Neck Surgery, Shikoku Cancer Center
150. Department of Otorhinolaryngology, Kochi Health Sciences Center
151. Department of Otorhinolaryngology, Kochi Medical School Hospital
152. Department of Otorhinolaryngology, Oita University Hospital
153. Department of Otorhinolaryngology, University of Occupational and Environmental Health
154. Department of Otorhinolaryngology, Kokura Memorial Hospital
155. Department of Head and Neck Surgery, Kyushu Cancer Center
156. Department of Otorhinolaryngology, Kyushu University Hospital
157. Department of Otorhinolaryngology, Kyushu Medical Center
158. Department of Otorhinolaryngology, JCHO Kyushu Hospital
159. Department of Otorhinolaryngology, Hamanomachi Hospital
160. Department of Otorhinolaryngology, Fukuoka University Hospital
161. Department of Otorhinolaryngology, Kurume University Hospital
162. Department of Otorhinolaryngology, Saga University Hospital
163. Department of Otorhinolaryngology, Sasebo Kyosai Hospital
164. Department of Otorhinolaryngology, Sasebo City General Hospital
165. Department of Otorhinolaryngology, Nagasaki Medical Center
166. Department of Otorhinolaryngology, Nagasaki University Hospital
167. Department of Otorhinolaryngology, Miyazaki University Hospital
168. Department of Otorhinolaryngology, Kumamoto University Hospital
169. Department of Otorhinolaryngology, Kagoshima Medical Center

List of 173 Institutions which participate in the Registry in 2015

- 170. Department of Otorhinolaryngology, Kagoshima City Hospital
- 171. Department of Otorhinolaryngology, Kagoshima University Medical and Dental Hospital
- 172. Department of Otorhinolaryngology, Okinawa Prefectural Chubu Hospital
- 173. Department of Otorhinolaryngology, Ryukyu University Hospital

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Total Cases -----	1
Oral Cavity -----	15
Larynx -----	33
Hypopharynx -----	52
Oropharynx -----	72
Nasopharynx -----	81
Nasal Cavity and Paranasal Sinuses Excluding the Maxillary Sinus -----	89
Maxillary Sinus -----	97
Major Salivary Glands -----	103

Total Cases (2015)

9527 Cases

Head and Neck Cancer ----- 9527 Cases

Primary Site

Site	Number of patients (%)	
1) Oral cavity	2285	(24.0)
2) Larynx	2174	(22.8)
3) Hypopharynx	2069	(21.7)
4) Oropharynx	1530	(16.1)
5) Nasopharynx	287	(3.0)
6) Nasal cavity, etc	338	(3.5)
7) Maxillary sinus	315	(3.3)
8) Major salivary glands	529	(5.6)
Total	9527	(100.0)

Nasal cavity, etc.: nasal cavity and paranasal sinuses
(excluding the maxillary sinus).

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	2	2
10 - 19	16	6	22
20 - 29	36	24	60
30 - 39	112	79	191
40 - 49	380	174	554
50 - 59	1028	289	1317
60 - 69	2732	494	3226
70 - 79	2408	531	2939
80 - 89	805	319	1124
90 - 99	57	34	91
100 - 109	0	1	1
Total	7574	1953	9527

Head and Neck Cancer ----- 9527 Cases

Histological Distribution by Primary Site

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
Acinar cell ca.	4	0	0	4	0	1	1	26	36
Adenocarcinoma, NOS	1	1	1	4	6	9	3	41	66
Adenoid cystic ca.	25	2	1	19	6	16	16	93	178
Adenosquamous ca.	1	3	2	2	0	0	0	1	9
Basal cell adenocarcinoma	2	0	0	1	0	0	0	8	11
Basal cell ca., NOS	1	0	1	0	0	0	1	1	4
Basaloid S.C.C.	3	2	4	6	1	2	0	0	18
Ca. expleomorphic adenoma	4	0	0	1	0	2	1	50	58
Ca., NOS	6	11	11	6	22	10	6	14	86
Ca., undiff., NOS	0	0	0	3	17	11	3	3	37
Carcinoid tumor, NOS	0	3	0	0	0	0	0	0	3
Carcinosarcoma, NOS	2	1	0	0	0	2	2	3	10
Chondrosarcoma, NOS	1	5	1	0	0	2	0	0	9
Clear cell ca., NOS	0	0	0	1	1	1	0	1	4
Cysticadenocarcinoma	0	0	0	1	0	0	0	0	1
Epithelial-myoepithelial ca.	0	0	0	0	0	0	0	16	16
Ewing sa.	0	0	1	1	0	0	0	0	2
Fibrosarcoma, NOS	3	0	0	1	0	1	0	0	5
Glomangiopericytoma	0	0	0	0	0	1	0	0	1
Hemangiopericytoma*	0	0	0	0	0	1	0	0	1
Hemangiosarcoma	1	0	0	0	0	2	0	1	4
Large cell ca., NOS	0	0	0	0	0	0	0	1	1
Leiomyosarcoma, NOS	1	0	0	0	0	2	1	1	5
Liposarcoma, NOS	0	0	1	0	1	0	0	0	2
Low-grade cribriform cystadenocarcinoma	0	0	0	0	0	0	0	1	1
Lymphoepithelial ca.	0	1	1	5	34	0	0	5	46
Malig. fibrous histiocytoma**	0	0	0	0	0	0	1	1	2
Malig. lymphoma, NOS	6	2	1	18	4	13	5	17	66
Malig. melanoma, NOS	19	0	0	2	1	58	10	0	90
Mammary analogue secretory ca.	0	0	0	0	0	0	0	1	1
Mucoepidermoid ca.	25	2	1	12	2	1	3	75	121
Myoepithelial ca.	4	0	0	0	0	0	0	13	17
Neoplasm, malig.	4	3	4	2	0	3	1	7	24
Neuroendocrine ca., NOS	1	1	2	0	0	0	1	0	5
Olfactory neuroblastoma	0	0	0	0	0	36	1	0	37
Oncocytic ca.	0	0	0	0	0	0	0	2	2
Osteosarcoma, NOS	2	0	0	0	0	0	1	0	3
Papillary adenocarcinoma	0	0	0	0	0	1	0	0	1
Papillary S.C.C.	0	3	0	3	0	0	0	0	6
Plasmacytoma, NOS	1	0	0	0	1	2	1	0	5
Polymorphous low grade adenocarcinoma	0	0	0	1	0	0	0	1	2
Rhabdomyosarcoma, NOS	1	0	1	0	0	6	1	0	9
Salivary duct ca.	1	0	0	1	0	0	1	85	88
Sebaceous ca.	0	0	0	0	0	1	0	0	1
Small cell ca., NOS	0	2	2	6	0	12	3	1	26
Solitary fibrous tumor*, malig.	0	0	0	0	0	1	0	0	1
Spindle cell ca., NOS	3	5	5	3	1	2	7	0	26
S.C.C. in situ, NOS	79	86	73	39	2	2	0	0	281
S.C.C. in situ with quest. stromal invasion	1	8	5	1	0	0	0	0	15
S.C.C. kerat., NOS	148	70	61	52	5	4	2	1	343
S.C.C. large cell, nonkerat.	3	7	7	13	11	3	4	0	48
S.C.C. microinvasive	16	15	12	5	0	0	0	0	48
S.C.C., NOS	1878	1935	1865	1299	163	125	237	59	7561
S.C.C., small cell, nonkerat.	8	0	6	13	9	2	1	0	39
S.C.C. spindle cell	2	1	0	2	0	0	1	0	6
Transitionl cell ca., NOS	1	0	0	0	0	2	0	0	3
Verrucous ca., NOS	27	5	0	3	0	1	0	0	36
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc.: nasal cavity and paranasal sinuses (excluding the maillary sinus).

NOS: not otherwise specified.

undiff.: undifferentiated.

nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.

quest.: questionable.

*: Solitary fibrous tumor/Hemangiopericytoma

ca., Ca.: carcinoma.

malig., Malig.: malignant.

kerat.: keratinaizing.

**: Undifferentiated plemomorphic sa.

Head and Neck Cancer ----- 9527 Cases

Histological Distribution by Primary Site (Male)

Histologic type	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, etc.	(7) Maxil- lary sinus	(8) Major salivary glands	Total
Acinar cell ca.	2	0	0	2	0	1	1	12	18
Adenocarcinoma, NOS	1	0	1	4	3	4	1	33	47
Adenoid cystic ca.	11	1	0	8	1	8	9	38	76
Adenosquamous ca.	1	3	1	2	0	0	0	1	8
Basal cell adenocarcinoma	0	0	0	1	0	0	0	5	6
Basal cell ca., NOS	1	0	1	0	0	0	0	1	3
Basaloid S.C.C.	3	2	4	6	0	0	0	0	15
Ca. expleomorphic adenoma Ca., NOS	2	0	0	0	0	2	1	31	36
Ca., undiff., NOS	4	11	10	5	15	4	3	7	59
Carcinoid tumor, NOS	0	0	0	1	10	10	3	2	26
Carcinosarcoma, NOS	0	2	0	0	0	0	0	0	2
Carcinosarcoma, NOS	1	1	0	0	0	2	1	1	6
Chondrosarcoma, NOS	0	3	1	0	0	1	0	0	5
Clear cell ca., NOS	0	0	0	0	0	1	0	0	1
Cysticadenocarcinoma	0	0	0	0	0	0	0	0	0
Epithelial-myoepithelial ca.	0	0	0	0	0	0	0	7	7
Ewing sa.	0	0	1	0	0	0	0	0	1
Fibrosarcoma, NOS	0	0	0	0	0	0	0	0	0
Glomangiopericytoma	0	0	0	0	0	1	0	0	1
Hemangiopericytoma*	0	0	0	0	0	1	0	0	1
Hemangiosarcoma	0	0	0	0	0	2	0	1	3
Large cell ca., NOS	0	0	0	0	0	0	0	1	1
Leiomyosarcoma, NOS	1	0	0	0	0	2	1	1	5
Liposarcoma, NOS	0	0	1	0	0	0	0	0	1
Low-grade cribriform cystadenocarcinoma	0	0	0	0	0	0	0	0	0
Lymphoepithelial ca.	0	1	1	5	24	0	0	3	34
Malig. fibrous histiocytoma**	0	0	0	0	0	0	0	0	0
Malig. lymphoma, NOS	5	0	0	12	2	9	2	10	40
Malig. melanoma, NOS	11	0	0	2	0	21	6	0	40
Mammary analogue secretory ca.	0	0	0	0	0	0	0	1	1
Mucoepidermoid ca.	10	2	1	7	0	1	2	36	59
Myoepithelial ca.	4	0	0	0	0	0	0	5	9
Neoplasm, malig.	3	3	4	1	0	1	1	5	18
Neuroendocrine ca., NOS	1	1	2	0	0	0	1	0	5
Olfactory neuroblastoma	0	0	0	0	0	20	1	0	21
Oncocytic ca.	0	0	0	0	0	0	0	0	0
Osteosarcoma, NOS	2	0	0	0	0	0	0	0	2
Papillary adenocarcinoma	0	0	0	0	0	0	0	0	0
Papillary S.C.C.	0	2	0	2	0	0	0	0	4
Plasmacytoma, NOS	0	0	0	0	0	2	1	0	3
Polymorphous low grade adenocarcinoma	0	0	0	1	0	0	0	1	2
Rhabdomyosarcoma, NOS	1	0	1	0	0	6	1	0	9
Salivary duct ca.	1	0	0	1	0	0	0	64	66
Sebaceous ca.	0	0	0	0	0	0	0	0	0
Small cell ca., NOS	0	2	2	5	0	8	3	1	21
Solitary fibrous tumor*, malig.	0	0	0	0	0	1	0	0	1
Spindle cell ca., NOS	2	5	5	1	1	1	4	0	19
S.C.C. in situ, NOS	45	77	67	33	2	1	0	0	225
S.C.C. in situ with quest. stromal invasion	1	6	4	0	0	0	0	0	11
S.C.C. kerat., NOS	90	64	54	46	4	3	2	0	263
S.C.C. large cell, nonkerat.	2	7	5	11	7	2	2	0	36
S.C.C. microinvasive	8	15	11	4	0	0	0	0	38
S.C.C., NOS	1212	1800	1713	1078	130	92	190	43	6258
S.C.C., small cell, nonkerat.	6	0	5	12	7	2	0	0	32
S.C.C. spindle cell	1	1	0	2	0	0	1	0	5
Transitionl cell ca., NOS	0	0	0	0	0	1	0	0	1
Verrucous ca., NOS	15	4	0	3	0	1	0	0	23
Total	1447	2013	1895	1255	206	211	237	310	7574

Nasal cavity, etc.: nasal cavity and paranasal sinuses (excluding the maillary sinus).

NOS: not otherwise specified.

undiff.: undifferentiated.

nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.

quest.: questionable.

*: Solitary fibrous tumor/Hemangiopericytoma

ca., Ca.: carcinoma.

malig., Malig.: malignant.

kerat.: keratinaizing.

**: Undifferentiated plemomorphic sa.

Head and Neck Cancer ----- 9527 Cases

Histological Distribution by Primary Site (Female)

Histologic type	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, etc.	(7) Maxil- lary sinus	(8) Major salivary glands	Total
Acinar cell ca.	2	0	0	2	0	0	0	14	18
Adenocarcinoma, NOS	0	1	0	0	3	5	2	8	19
Adenoid cystic ca.	14	1	1	11	5	8	7	55	102
Adenosquamous ca.	0	0	1	0	0	0	0	0	1
Basal cell adenocarcinoma	2	0	0	0	0	0	0	3	5
Basal cell ca., NOS	0	0	0	0	0	0	1	0	1
Basaloid S.C.C.	0	0	0	0	1	2	0	0	3
Ca. expleomorphic adenoma	2	0	0	1	0	0	0	19	22
Ca., NOS	2	0	1	1	7	6	3	7	27
Ca., undiff., NOS	0	0	0	2	7	1	0	1	11
Carcinoid tumor, NOS	0	1	0	0	0	0	0	0	1
Carcinosarcoma, NOS	1	0	0	0	0	0	1	2	4
Chondrosarcoma, NOS	1	2	0	0	0	1	0	0	4
Clear cell ca., NOS	0	0	0	1	1	0	0	1	3
Cysticadenocarcinoma	0	0	0	1	0	0	0	0	1
Epithelial-myoepithelial ca.	0	0	0	0	0	0	0	9	9
Ewing sa.	0	0	0	1	0	0	0	0	1
Fibrosarcoma, NOS	3	0	0	1	0	1	0	0	5
Glomangiopericytoma	0	0	0	0	0	0	0	0	0
Hemangiopericytoma*	0	0	0	0	0	0	0	0	0
Hemangiosarcoma	1	0	0	0	0	0	0	0	1
Large cell ca., NOS	0	0	0	0	0	0	0	0	0
Leiomyosarcoma, NOS	0	0	0	0	0	0	0	0	0
Liposarcoma, NOS	0	0	0	0	1	0	0	0	1
Low-grade cribriform cystadenocarcinoma	0	0	0	0	0	0	0	1	1
Lymphoepithelial ca.	0	0	0	0	10	0	0	2	12
Malig. fibrous histiocytoma**	0	0	0	0	0	0	1	1	2
Malig. lymphoma, NOS	1	2	1	6	2	4	3	7	26
Malig. melanoma, NOS	8	0	0	0	1	37	4	0	50
Mammary analogue secretory ca.	0	0	0	0	0	0	0	0	0
Mucoepidermoid ca.	15	0	0	5	2	0	1	39	62
Myoepithelial ca.	0	0	0	0	0	0	0	8	8
Neoplasm, malig.	1	0	0	1	0	2	0	2	6
Neuroendocrine ca., NOS	0	0	0	0	0	0	0	0	0
Olfactory neuroblastoma	0	0	0	0	0	16	0	0	16
Oncocytic ca.	0	0	0	0	0	0	0	2	2
Osteosarcoma, NOS	0	0	0	0	0	0	1	0	1
Papillary adenocarcinoma	0	0	0	0	0	1	0	0	1
Papillary S.C.C.	0	1	0	1	0	0	0	0	2
Plasmacytoma, NOS	1	0	0	0	1	0	0	0	2
Polymorphous low grade adenocarcinoma	0	0	0	0	0	0	0	0	0
Rhabdomyosarcoma, NOS	0	0	0	0	0	0	0	0	0
Salivary duct ca.	0	0	0	0	0	0	1	21	22
Sebaceous ca.	0	0	0	0	0	1	0	0	1
Small cell ca., NOS	0	0	0	1	0	4	0	0	5
Solitary fibrous tumor*, malig.	0	0	0	0	0	0	0	0	0
Spindle cell ca., NOS	1	0	0	2	0	1	3	0	7
S.C.C. in situ, NOS	34	9	6	6	0	1	0	0	56
S.C.C. in situ with quest. stromal invasion	0	2	1	1	0	0	0	0	4
S.C.C. kerat., NOS	58	6	7	6	1	1	0	1	80
S.C.C. large cell, nonkerat.	1	0	2	2	4	1	2	0	12
S.C.C. microinvasive	8	0	1	1	0	0	0	0	10
S.C.C., NOS	666	135	152	221	33	33	47	16	1303
S.C.C., small cell, nonkerat.	2	0	1	1	2	0	1	0	7
S.C.C. spindle cell	1	0	0	0	0	0	0	0	1
Transitionl cell ca., NOS	1	0	0	0	0	1	0	0	2
Verrucous ca., NOS	12	1	0	0	0	0	0	0	13
Total	838	161	174	275	81	127	78	219	1953

Nasal cavity, etc.: nasal cavity and paranasal sinuses (excluding the maillary sinus).

NOS: not otherwise specified.

undiff.: undifferentiated.

nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.

quest.: questionable.

*: Solitary fibrous tumor/Hemangiopericytoma

ca., Ca.: carcinoma.

malig., Malig.: malignant.

kerat.: keratinaizing.

**: Undifferentiated plemomorphic sa.

Head and Neck Cancer ----- 9527 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	9	0	1	1	0	0	0	0	0	0	2	13
Tis	220	1	0	0	0	1	0	0	0	5	1	228
T1	1108	91	19	32	135	21	19	1	5	4	10	1445
T1a	458	0	0	0	1	0	0	0	0	1	3	463
T1b	150	0	0	0	1	0	0	0	0	0	2	153
T2	1575	288	26	70	501	166	41	0	6	5	9	2687
T3	717	176	16	11	329	173	31	1	3	3	4	1464
T4	49	29	30	0	18	18	0	1	8	3	0	156
T4a	576	179	6	13	468	299	46	0	0	3	8	1598
T4b	127	29	0	1	65	62	12	0	0	0	2	298
TX	19	1	1	4	7	1	1	0	0	53	2	89
T-	86	4	1	1	7	6	1	1	0	4	822	933
Total	5094	798	100	133	1532	747	151	4	22	81	865	9527

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

T and N Status (M0 Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	9	0	1	1	0	0	0	0	0	0	1	12
Tis	218	1	0	0	0	1	0	0	0	1	0	221
T1	1096	88	19	31	133	18	17	1	5	0	5	1413
T1a	454	0	0	0	1	0	0	0	0	0	2	457
T1b	150	0	0	0	1	0	0	0	0	0	1	152
T2	1546	281	22	68	476	150	34	0	5	2	8	2592
T3	696	168	15	11	301	159	23	1	3	2	4	1383
T4	47	27	21	0	16	15	0	1	6	0	0	133
T4a	552	171	5	12	432	267	40	0	0	0	4	1483
T4b	114	27	0	1	53	51	10	0	0	0	2	258
TX	18	1	1	4	6	1	1	0	0	8	0	40
T-	83	4	1	0	6	5	1	0	0	2	3	105
Total	4983	768	85	128	1425	667	126	3	19	15	30	8249

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Head and Neck Cancer ----- 9527 Cases

T and N status (M1 Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0	0	0
T1	3	0	0	0	1	3	2	0	0	0	0	9
T2	6	3	4	1	17	15	5	0	1	0	0	52
T3	14	6	1	0	22	11	8	0	0	0	0	62
T4	2	1	9	0	1	2	0	0	1	1	0	17
T4a	15	5	1	0	23	29	5	0	0	0	1	79
T4b	10	1	0	0	10	7	2	0	0	0	0	30
TX	0	0	0	0	0	0	0	0	0	0	0	0
T-	2	0	0	0	1	0	0	0	0	0	0	3
Total	52	16	15	1	75	67	22	0	2	1	1	252

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

T and N status (MX & M- Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	1	1
Tis	2	0	0	0	0	0	0	0	0	4	1	7
T1	9	3	0	1	1	0	0	0	0	4	5	23
T1a	4	0	0	0	0	0	0	0	0	1	1	6
T1b	0	0	0	0	0	0	0	0	0	0	1	1
T2	23	4	0	1	8	1	2	0	0	3	1	43
T3	7	2	0	0	6	3	0	0	0	1	0	19
T4	0	1	0	0	1	1	0	0	1	2	0	6
T4a	9	3	0	1	13	3	1	0	0	3	3	36
T4b	3	1	0	0	2	4	0	0	0	0	0	10
TX	1	0	0	0	1	0	0	0	0	45	2	49
T-	1	0	0	1	0	1	0	1	0	2	819	825
Total	59	14	0	4	32	13	3	1	1	65	834	1026

M-: without reported M classification.

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Head and Neck cancer ----- 9527 Cases

Treatment Method for the Primary Lesion by Primary Site

Treatment method	(1) Oral cavity	(2) Larynx	(3) Hypo-pharynx	(4) Oro-pharynx	(5) Naso-pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major Salivary gl.	Total
Surgery									
Without	217	1245	1005	818	231	159	155	52	3882
With	1837	714	918	565	13	139	124	399	4709
Unknown	231	215	146	147	43	40	36	78	936
Radiotherapy									
Without	1620	626	779	466	22	96	62	238	3909
With	434	1333	1144	917	222	202	217	213	4682
Unknown	231	215	146	147	43	40	36	78	936
Chemotherapy									
Without	1661	1356	886	593	49	164	88	365	5162
With	393	603	1037	790	195	134	191	86	3429
Unknown	231	215	146	147	43	40	36	78	936
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maillary sinus).

Treatment Method for the Cervical Lymph Nodes by Primary Site

Treatment method	(1) Oral cavity	(2) Larynx	(3) Hypo-pharynx	(4) Oro-pharynx	(5) Naso-pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major Salivary gl.	Total
Surgery									
Without	1079	1623	1258	953	238	268	220	173	5812
With	952	334	665	429	6	29	59	272	2746
Unknown	254	217	146	148	43	41	36	84	969
Radiotherapy									
Without	1686	1539	977	580	61	260	197	295	5595
With	345	418	946	802	183	37	82	150	2963
Unknown	254	217	146	148	43	41	36	84	969
Chemotherapy									
Without	1703	1650	1024	679	74	261	202	378	5971
With	328	307	899	703	170	36	77	67	2587
Unknown	254	217	146	148	43	41	36	84	969
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maillary sinus).

Head and Neck Cancer ----- 9527 Cases

Sequence of Treatment Methods for the Primary Lesion by Primary Site

Sequence of treatment methods	(1) Oral cavity	(2) Larynx	(3) Hypo-pharynx	(4) Oro-pharynx	(5) Naso-pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
No treatment	42	30	54	43	8	9	7	8	201
A) Surg. alone	1419	552	582	345	5	60	33	206	3202
F) (Rad.+Chem.)	52	441	482	431	131	40	95	7	1679
B) Rad. alone	68	705	176	124	30	50	23	16	1192
AB) Surg.->Rad.	103	55	58	70	3	42	19	124	474
CF) Chem.->(Rad.+Chem.)	13	28	155	122	23	10	8	1	360
AF) Surg.->(Rad.+Chem.)	90	39	92	62	1	11	14	35	344
C) Chem. alone	28	13	58	40	6	16	11	14	186
CA) Chem.->Surg.	59	15	45	22	0	1	5	3	150
FA) (Rad.+Chem.)->Surg.	20	10	17	15	1	4	21	1	89
AC) Surg.->Chem.	40	7	17	6	1	8	2	4	85
CAF) Chem.->Surg.->(Rad.+Chem.)	20	6	30	13	0	2	4	1	76
CAB) Chem.->Surg.->Rad.	22	5	26	12	0	2	5	1	73
CB) Chem.->Rad.	1	6	24	26	2	8	2	2	71
FC) (Rad.+Chem.)->Chem.	1	6	14	8	20	11	4	1	65
CFC) Chem.->(Rad.+Chem.)->Chem.	2	1	14	3	4	4	0	0	28
D) (Surg.+Rad.)	7	1	6	3	1	0	2	3	23
G) Surg.+(Rad.+Chem.)	5	4	6	1	0	1	1	3	21
BC) Rad.->Chem.	2	6	2	3	1	4	0	2	20
ABC) Surg.->Rad.->Chem.	6	0	5	0	0	2	3	4	20
E) (Surg.+Chem.)	10	3	5	1	0	0	0	1	20
AFC) Surg.->(Rad.+Chem.)->Chem.	6	1	3	1	0	0	0	5	16
AA) Surg.->Surg.	8	1	3	0	0	1	0	2	15
BA) Rad.->Surg.	3	6	2	1	1	2	0	0	15
CCF) Chem.->Chem.->(Rad.+Chem.)	0	4	5	5	0	1	0	0	15
CAC) Chem.->Surg.->Chem.	5	1	4	1	0	0	1	0	12
Others	22	13	38	25	6	9	19	7	139
Unknown	231	215	146	147	43	40	36	78	936
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maillary sinus).

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Head and Neck Cancer ----- 9527 Cases

Surgical Methods for the Primary Lesion by Primary Site

Surgical method	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
No surgery	217	1244	1005	818	231	159	155	52	3881
A1) Partial glossectomy	750	0	0	0	0	0	0	0	750
G5) Total laryngectomy	0	351	11	1	0	0	0	0	363
F5) Total pharyngolaryngectomy	1	8	259	1	0	0	0	0	269
G2) Transoral resection	0	237	1	0	0	0	0	0	238
F1)G1) Endoscopic resection	0	46	177	7	0	2	1	0	233
F2) Transoral resection of the pharynx	0	7	198	13	0	0	0	0	218
E3) Unilateral resection of the lateral wall of oropharynx	1	0	1	201	0	0	0	0	203
F6) Total pharyngolaryngo-esophagectomy	0	5	149	2	0	0	0	0	156
A5) Subtotal glossectomy	150	0	0	3	0	0	0	1	154
C2) Resection of the floor of mouth	144	0	0	0	0	0	0	2	146
D1) Partial maxillectomy	97	0	0	1	0	14	28	0	140
B2) Segmental mandibulectomy	132	0	0	0	0	0	2	1	135
E9) Resection of the oropharynx, NOS	2	0	1	116	0	0	0	0	119
B1) Marginal mandibulectomy	104	0	0	2	0	0	0	2	108
C4) Resection of the buccal mucosa	97	0	0	0	0	0	0	0	97
H4) Total parotidectomy	0	0	0	0	0	0	0	97	97
H2) Superficial parotidectomy	0	0	0	0	0	0	0	91	91
H6) Total submandibulectomy	0	0	0	0	0	0	0	91	91
C9) Resection of oral cavity, NOS	84	0	0	1	0	0	0	1	86
A4) Hemiglossectomy	74	0	0	1	0	0	0	0	75
D2) Total maxillectomy	15	0	0	0	0	4	52	0	71
A2) Hemiglossectomy (anterior 2/3 ^{rds})	64	0	0	2	0	0	0	1	67
E1) Resection of the root of tongue	0	0	1	65	0	0	0	0	66
H5) Extended parotidectomy	0	1	0	0	0	0	0	50	51
E8) Resection of the soft palate	1	0	0	44	0	0	0	0	45
F3) Partial hypopharyngectomy	0	4	39	1	0	0	0	0	44
F4) Total laryngectomy+Partial pharyngectomy	0	2	37	0	0	0	0	0	39
A6) Total glossectomy	21	0	0	12	0	0	0	0	33
Others	100	54	44	92	12	119	41	62	524
V9)+ Unknown	231	215	146	147	44	40	36	78	937
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc.: nasal cavity and paranasal sinuses (excluding the maxillary sinus).

NOS: not otherwise specified.

Head and Neck Cancer ----- 9527 Cases

Reconstructive Surgery by Primary Site

Reconstructive surgery	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No reconstruction	1362	1910	1458	1217	244	270	213	352	7026
B) Free jejunal flap	1	21	387	10	0	0	0	0	419
E) Free ALT flap	179	7	17	65	0	5	9	24	306
D) Free RA MC flap	186	1	1	45	0	5	38	17	293
C) Free FA flap	93	3	13	21	0	2	0	5	137
5) PM MC flap	50	5	19	11	0	0	5	4	94
G) Free fibular OC flap	48	0	0	0	0	2	6	0	56
1) Skin graft	42	1	0	2	0	1	2	1	49
I) Free nerve graft	0	0	0	0	0	0	0	33	33
2) Local skin flap	15	2	2	3	0	3	1	5	31
F) Free scapular OC flap	17	0	0	0	0	0	1	2	20
4) DP flap	9	8	1	0	0	0	0	1	19
7) Gastric pull-up	0	0	18	0	0	0	0	0	18
3) Mucosal flap	4	0	0	4	0	3	0	0	11
8) Others	48	1	7	5	0	7	5	7	80
9) Unknown	231	215	146	147	43	40	35	78	935
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc.: nasal cavity and paranasal sinuses (excluding the maxillary sinus).

RA: rectus abdominis.

MC: musculocutaneous.

ALT: anterolateral thigh.

FA: forearm.

PM: pectoralis major.

OC: osteocutaneous.

DP: deltopectoral.

Head and Neck Cancer ----- 9527 Cases

Neck Dissection on the Ipsilateral Side by Primary Site

Neck dissection	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
0) No N.D.	1082	1623	1258	953	238	268	219	172	5813
1) Total N.D.	308	61	170	144	1	5	13	75	777
2) Selective N.D.	610	253	472	268	5	17	41	182	1848
3) Lymph node excision	8	2	3	3	0	0	1	8	25
8) Others	14	14	8	9	0	5	3	2	55
9) Unknown	263	221	158	153	43	43	38	90	1009
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maxillary sinus).

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Primary Site

Neck dissection	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
0) No N.D.	1697	1747	1479	1284	244	283	268	420	7422
1) Total N.D.	43	28	77	23	0	2	2	2	177
2) Selective N.D.	267	164	345	61	0	5	6	14	862
3) Lymph node excision	3	0	2	1	0	0	0	3	9
8) Others	12	14	8	8	0	5	1	1	49
9) Unknown	263	221	158	153	43	43	38	89	1008
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maxillary sinus).

N.D.: neck dissection.

Head and Neck Cancer ----- 9527 Cases

Radiotherapy by Primary Site

Type of radiotherapy	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No radiotherapy	1595	618	756	443	22	96	60	235	3825
1) X-ray (and/or electron beam)	422	1290	1096	907	209	162	209	201	4496
2) Particle beam	8	1	4	9	2	32	6	11	73
3) B.T.	13	0	0	0	0	0	0	0	13
4) X-ray + Particle beam	1	4	1	3	2	1	1	1	14
5) X-ray + B.T.	2	0	0	0	0	0	0	0	2
8) Others	0	0	0	0	0	1	0	0	1
Unknown type	11	42	65	20	9	6	3	2	158
9) Unknown	233	219	147	148	43	40	36	79	945
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maxillary sinus).

B.T.: brachytherapy.

Head and Neck Cancer ----- 9527 Cases

Chemotherapy by Primary site

Route of administration	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No chemotherapy	1646	1341	874	579	49	164	88	365	5106
1) I.V.	246	434	861	681	172	108	71	61	2634
3) Oral	97	123	53	45	5	7	10	16	356
2) I.A.	27	3	11	13	0	6	90	3	153
5) I.V.+Oral	11	10	48	33	9	4	2	3	120
4) I.V.+I.A.	9	2	1	1	0	1	11	0	25
6) I.A.+Oral	2	0	1	0	1	0	1	0	5
7) I.V.+I.A.+Oral	1	0	1	1	0	0	0	0	3
8) others	0	1	0	0	0	1	0	0	2
Unknow route	14	33	73	30	8	6	6	3	173
9) Unknown	232	227	146	147	43	41	36	78	950
Total	2285	2174	2069	1530	287	338	315	529	9527

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maillary sinus).

I.V.: intravenous.

I.A.: intraarterial.

Oral Cavity (2015)

2285 Cases

Carcinoma of the Oral Cavity ----- 2285 Cases

Primary Site

Site	Number of patients (%)	
1) Lip	22	(0.9)
2) Buccal mucosa	154	(6.7)
3) Retro-molar area	61	(2.8)
4) Lower gingiva	306	(13.4)
5) Upper gingiva	171	(7.5)
6) Hard palate	82	(3.6)
7) Floor of mouth	227	(9.9)
8) Tongue	1252	(54.8)
9) Oral cavity, NOS	10	(0.4)
Total	2285	(100.0)

NOS: not otherwise specified

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	1	1
10 - 19	3	1	4
20 - 29	14	7	21
30 - 39	53	41	94
40 - 49	115	73	188
50 - 59	225	104	329
60 - 69	418	176	594
70 - 79	442	236	678
80 - 89	158	180	338
90 - 99	19	18	37
100 - 109	0	1	1
Total	1447	838	2285

Carcinoma of the Oral Cavity ----- 2285 Cases

Carcinoma of the Lip**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	0	0	0
50 - 59	2	0	2
60 - 69	3	4	7
70 - 79	3	4	7
80 - 89	1	4	5
90 - 99	1	0	1
Total	10	12	22

Carcinoma of the Buccal Mucosa**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	4	1	5
50 - 59	7	6	13
60 - 69	17	11	28
70 - 79	38	23	61
80 - 89	20	22	42
90 - 99	2	3	5
Total	88	66	154

Carcinoma of the Retromolar Area**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	5	0	5
60 - 69	13	5	18
70 - 79	20	6	26
80 - 89	6	5	11
90 - 99	0	0	0
Total	45	16	61

Carcinoma of the Oral Cavity ----- 2285 Cases

Carcinoma of the Lower Gingiva**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	1	1
10 - 19	0	1	1
20 - 29	0	0	0
30 - 39	4	1	5
40 - 49	2	3	5
50 - 59	16	7	23
60 - 69	42	36	78
70 - 79	64	53	117
80 - 89	26	43	69
90 - 99	3	4	7
Total	157	149	306

Carcinoma of the Upper Gingiva**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	1	1
40 - 49	5	3	8
50 - 59	5	7	12
60 - 69	24	19	43
70 - 79	24	34	58
80 - 89	20	21	41
90 - 99	3	4	7
100-	0	1	1
Total	81	90	171

Carcinoma of the Hard Palate**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	0	1
20 - 29	1	0	1
30 - 39	1	1	2
40 - 49	5	7	12
50 - 59	5	6	11
60 - 69	14	2	16
70 - 79	16	5	21
80 - 89	7	9	16
90 - 99		2	2
Total	50	32	82

Carcinoma of the Oral Cavity ----- 2285 Cases

Carcinoma of the Floor of Mouth**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	1	2
40 - 49	12	2	14
50 - 59	40	7	47
60 - 69	67	7	74
70 - 79	50	16	66
80 - 89	15	5	20
90 - 99	2	2	4
Total	187	40	227

Carcinoma of the Tongue**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	2	0	2
20 - 29	13	7	20
30 - 39	47	37	84
40 - 49	86	57	143
50 - 59	143	71	214
60 - 69	235	92	327
70 - 79	227	94	321
80 - 89	61	69	130
90 - 99	8	3	11
100 - 109	0	0	0
Total	822	430	1252

Carcinoma of the Oral Cavity, NOS**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	0	0	0
50 - 59	2	0	2
60 - 69	3	0	3
70 - 79	0	1	1
80 - 89	2	2	4
90 - 99	0	0	0
Total	7	3	10

NOS: not otherwise specified

Carcionma of the Oral Cavity ----- 2285 Cases

Histological Distribution by Primary Site

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	Total
	Lip	Buccal mucosa	Retromolar area	Lower gingiva	Upper gingiva	Hard palate	Floor of mouth	Tongue	Oral cavity, NOS	
Acinar cell ca.	0	4	0	0	0	0	0	0	0	4
Adenocarcinoma, NOS	0	0	0	0	0	0	0	1	0	1
Adenoid cystic ca.	3	3	0	4	3	8	4	0	0	25
Adenosquamous ca.	0	0	0	0	0	0	0	1	0	1
Basal cell adenocarcinoma	0	1	0	0	0	0	0	1	0	2
Basal cell ca., NOS	0	0	0	0	0	1	0	0	0	1
Basaloid S.C.C.	0	0	0	0	0	0	3	0	0	3
Ca. expleomorphic adenoma	0	1	1	0	0	1	1	0	0	4
Ca., NOS	0	0	0	4	0	0	0	2	0	6
Carcinosarcoma,NOS	0	0	0	1	0	0	0	1	0	2
Chondrosarcoma,NOS	0	0	0	0	1	0	0	0	0	1
Fibrosarcoma, NOS	0	1	0	2	0	0	0	0	0	3
Hemangiosarcoma	0	0	0	0	0	0	0	1	0	1
Leiomyosarcoma,NOS	0	0	0	0	0	0	0	1	0	1
Malig. lymphoma, NOS	0	1	0	1	2	0	1	0	1	6
Malig. melanoma, NOS	1	0	0	5	7	5	1	0	0	19
Mucoepidermoid ca.	1	3	0	4	2	12	0	3	0	25
Myoepithelial ca.	0	0	0	0	0	2	1	1	0	4
Neoplasm, malig.	0	1	0	0	1	0	2	0	0	4
Neuroendocrine ca.,NOS	0	0	0	0	0	1	0	0	0	1
Osteosarcoma, NOS	0	0	0	0	0	1	0	0	1	2
Plasmacytoma,NOS	0	1	0	0	0	0	0	0	0	1
Rhabdomyosarcoma, NOS	0	0	0	0	0	0	0	1	0	1
Salivary duct ca.	0	1	0	0	0	0	0	0	0	1
Spindle cell ca., NOS	0	0	0	0	0	0	1	2	0	3
S.C.C. in situ, NOS	0	4	2	5	2	1	2	63	0	79
S.C.C. in situ with quest.Stromal invasion	0	0	0	0	0	0	0	1	0	1
S.C.C. kerat., NOS	1	10	5	18	10	2	11	90	1	148
S.C.C. large cell,nonkerat.,NOS	0	0	1	0	0	0	0	2	0	3
S.C.C. microinvasive	0	3	0	0	0	0	0	13	0	16
S.C.C., NOS	14	116	52	259	137	47	196	1050	7	1878
S.C.C. small cell, nonkerat.	0	1	0	1	2	0	2	2	0	8
S.C.C. spindle cell	1	0	0	0	0	0	0	1	0	2
Transitional cell ca.,NOS	0	0	0	0	0	0	0	1	0	1
Verrucous ca., NOS	1	3	0	2	4	1	2	14	0	27
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.
kerat :keratinizing.

ca., Ca.: carcinoma.
nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.

Malig., malig.: malignant.

Carcinoma of the Oral Cavity ----- 2285 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	3	0	0	0	0	0	0	0	0	3
Tis	39	0	0	0	0	0	0	2	0	41
T1	535 (1)	16	0	1	7	3	1	2	2	567
T2	496 (1)	83 (1)	1	4	92 (2)	19 (1)	0	2	4	701
T3	85 (1)	28 (1)	1	2	55 (1)	15	1	0	2	189
T4	15	2	6 (1)	0	8 (1)	4	0	2 (1)	0	37
T4a	187	77 (1)	4	2	125 (2)	59 (1)	6	0	3	463
T4b	16	4	0	1	15	10 (1)	0	0	1	47
TX	2	0	0	1	0	0	0	10	0	13
T-	8	0	0	0	0	2	0	0	214	224
Total	1386	210	12	11	302	112	8	18	226	2285

M1: 17 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Lip**T and N status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	5	0	0	0	0	0	0	0	1	6
T2	7 (1)	1	0	0	0	0	0	0	0	8
T3	2 (1)	0	0	0	0	0	0	0	0	2
T4	0	0	0	0	0	0	0	0	0	0
T4a	0	1	0	0	1	0	0	0	0	2
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	4	4
Total	14	2	0	0	1	0	0	0	5	22

M1: 2 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Oral Cavity ----- 2285 Cases

Carcinoma of the Buccal mucosa**T and N status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	29	0	0	0	0	0	0	0	0	29
T2	39	6	0	1	3	1	0	2	0	52
T3	8	6	0	0	5	0	0	0	0	19
T4	0	0	0	0	0	0	0	1	0	1
T4a	11	3	1	0	5	1 (1)	1	0	0	22
T4b	2	2	0	0	3	0	0	0	0	7
TX	0	0	0	0	0	0	0	2	0	2
T-	1	0	0	0	0	0	0	0	21	22
Total	90	17	1	1	16	2	1	5	21	154

M1: 1 case. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Retromolar Area**T and N status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	2	0	0	0	0	0	0	0	0	2
T1	10	1	0	0	0	0	1	0	0	12
T2	12	2	0	0	3	0	0	0	0	17
T3	2	4	0	0	2	0	0	0	0	8
T4	1	1	0	0	1	0	0	0	0	3
T4a	3	2	0	0	4	0	0	0	1	10
T4b	5	0	0	0	1	0	0	0	0	6
TX	0	0	0	0	0	0	0	0	0	0
T-	1	0	0	0	0	0	0	0	2	3
Total	36	10	0	0	11	0	1	0	3	61

M1: 0 case.

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Oral Cavity ----- 2285 Cases

Carcinoma of the Lower Gingiva**T and N status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	2	0	0	0	0	0	0	0	0	2
T1	27	0	0	1	0	0	0	0	0	28
T2	50	12	1	1	17 (1)	1	0	0	0	82
T3	5	1	1	1	5	0	0	0	0	13
T4	4	0	0	0	4 (1)	0	0	0	0	8
T4a	50	23	1	0	39 (1)	9	0	0	0	122
T4b	3	2	0	0	3	0	0	0	1	9
TX	1	0	0	1	0	0	0	0	0	2
T-	1	0	0	0	0	0	0	0	39	40
Total	143	38	3	4	68	10	0	0	40	306

M1: 3 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Upper Gingiva**T and N status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	2	0	0	0	0	0	0	0	0	2
T1	17	2	0	0	0	0	0	1	0	20
T2	21	5 (1)	0	0	6	1	0	0	0	33
T3	7	2	0	0	1	0	0	0	0	10
T4	3	0	2	0	0	0	0	0	0	5
T4a	38	7	2	0	12	5	0	0	2	66
T4b	2	0	0	1	6	3	0	0	0	12
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	1	0	0	22	23
Total	90	16	4	1	25	10	0	1	24	171

M1: 1 case. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Oral Cavity ----- 2285 Cases

Carcinoma of the Hard Palate**T and N status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	1	0	0	0	0	0	0	0	0	1
T1	15	2	0	0	1	0	0	0	0	18
T2	15	3	0	0	1	1	0	0	0	20
T3	5	0	0	0	0	1	0	0	0	6
T4	2	0	0	0	0	0	0	0	0	2
T4a	12	1	0	0	2	0	0	0	0	15
T4b	2	0	0	0	0	3	0	0	0	5
TX	0	0	0	0	0	0	0	1	0	1
T-	1	0	0	0	0	0	0	0	13	14
Total	53	6	0	0	4	5	0	1	13	82

M1: 0 case.

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Floor of Mouth**T and N status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	2	0	0	0	0	0	0	0	0	2
T1	51	1	0	0	1	2	0	1	0	56
T2	49	6	0	0	8	5 (1)	0	0	0	68
T3	6	1 (1)	0	0	4 (1)	3	0	0	0	14
T4	0	0	1	0	2	1	0	1 (1)	0	5
T4a	20	14 (1)	0	2	11	12	1	0	0	60
T4b	2	0	0	0	1	1	0	0	0	4
TX	0	0	0	0	0	0	0	1	0	1
T-	0	0	0	0	0	1	0	0	16	17
Total	130	22	1	2	27	25	1	3	16	227

M1: 5 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Oral Cavity ----- 2285 Cases

Carcinoma of the Tongue**T and N status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	3	0	0	0	0	0	0	0	0	3
Tis	30	0	0	0	0	0	0	2	0	32
T1	380 (1)	10	0	0	5	1	0	0	1	397
T2	303	48	0	2	54 (1)	10	0	0	4	421
T3	50	14	0	1	38	11	1	0	2	117
T4	5	1	3 (1)	0	1	3	0	0	0	13
T4a	48	25	0	0	51 (1)	32	4	0	0	160
T4b	0	0	0	0	1	3 (1)	0	0	0	4
TX	1	0	0	0	0	0	0	6	0	7
T-	4	0	0	0	0	0	0	0	94	98
Total	824	98	3	3	150	60	5	8	101	1252

M1: 5 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Oral Cavity, NOS**T and N status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	1	0	0	0	0	0	0	0	0	1
T2	0	0	0	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0	0	0	0
T4	0	0	0	0	0	0	0	0	0	0
T4a	5	1	0	0	0	0	0	0	0	6
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	3	3
Total	6	1	0	0	0	0	0	0	3	10

M1: 0 case.

NOS: not otherwise specified.

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Oral Cavity ----- 2285 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Surgery										
Without	0	28	14	28	33	18	23	71	2	217
With	19	106	43	240	115	54	180	1074	6	1837
Unknown	3	20	4	38	23	10	24	107	2	231
Radiotherapy										
Without	18	94	40	199	101	52	149	961	6	1620
With	1	40	17	69	47	20	54	184	2	434
Unknown	3	20	4	38	23	10	24	107	2	231
Chemotherapy										
Without	18	107	43	205	120	61	152	950	5	1661
With	1	27	14	63	28	11	51	195	3	393
Unknown	3	20	4	38	23	10	24	107	2	231
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Surgery										
Without	10	77	31	88	93	57	99	621	3	1079
With	8	54	26	175	54	14	103	513	5	952
Unknown	4	23	4	43	24	11	25	118	2	254
Radiotherapy										
Without	17	106	43	203	120	61	162	966	8	1686
With	1	25	14	60	27	10	40	168	0	345
Unknown	4	23	4	43	24	11	25	118	2	254
Chemotherapy										
Without	18	109	44	208	130	67	162	958	7	1703
With	0	22	13	55	17	4	40	176	1	328
Unknown	4	23	4	43	24	11	25	118	2	254
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.

Carcinoma of the Oral Cavity ----- 2285 Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
No treatment	0	7	2	6	7	4	3	13	0	42
A) Surg. alone	17	77	32	168	84	44	126	868	3	1419
AB) Surg.->Rad.	1	11	2	16	15	5	10	42	1	103
AF) Surg.->(Rad.+Chem.)	0	5	1	17	5	0	14	48	0	90
B) Rad. alone	0	11	4	8	11	7	8	19	0	68
CA) Chem.->Surg.	0	2	4	8	3	0	7	34	1	59
F) (Rad.+Chem.)	0	4	6	5	6	6	6	18	1	52
AC) Surg.->Chem.	1	2	0	7	3	2	5	20	0	40
C) Chem. alone	0	4	0	5	2	1	4	11	1	28
CAB) Chem.->Surg.->Rad.	0	1	1	2	1	1	2	14	0	22
FA) (Rad.+Chem.)->Surg.	0	1	1	6	1	0	5	6	0	20
CAF) Chem.->Surg.->(Rad.+Chem.)	0	1	0	4	0	0	2	13	0	20
CF) Chem.->(Rad.+Chem.)	0	1	0	2	3	0	1	6	0	13
E) Surg.+Chem.	0	0	0	1	0	0	3	6	0	10
AA) Surg.->Surg.	0	0	0	2	0	1	1	3	1	8
D) Surg.+Rad.	0	0	0	2	1	0	1	3	0	7
AFC) Surg.->(Rad.+Chem.)->Chem.	0	0	0	0	0	0	0	6	0	6
ABC) Surg.->Rad.->Chem.	0	2	0	0	1	1	0	2	0	6
CAC) Chem.->Surg.->Chem.	0	1	0	0	0	0	0	4	0	5
G) Surg.+Rad.+Chem.	0	0	0	3	0	0	0	2	0	5
Others	0	4	4	6	5	0	5	7	0	31
Unknown	3	20	4	38	23	10	24	107	2	231
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.

Surg.: surgery.

Chem.: chemotherapy.

Rad.: radiotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Oral Cavity ----- 2285 Cases

Surgical Methods for the Primary Lesion by Subsite

Surgical method	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	Total
	Lip	Buccal mucosa	Retro-molar area	Lower gingiva	Upper gingiva	Hard palate	Floor of mouth	Tongue	Oral cavity, NOS	
X0) No surgery	0	28	14	28	33	18	23	71	2	217
A1) Partial glossectomy	0	0	0	1	0	0	5	744	0	750
A5) Subtotal glossectomy	0	0	0	0	0	0	7	143	0	150
C2) Resection of the floor of mouth	0	0	0	2	0	2	139	1	0	144
B2) Segmental mandibulectomy	0	7	4	108	0	0	11	0	2	132
B1) Marginal mandibulectomy	0	3	9	89	0	0	3	0	0	104
D1) Partial maxillectomy	0	2	0	1	83	11	0	0	0	97
C4) Resection of the buccal mucosa	0	81	14	1	1	0	0	0	0	97
C9) Resction of oral cavity, NOS	1	9	16	1	16	32	6	0	3	84
A4) Hemiglossectomy	0	0	0	0	0	0	1	73	0	74
A2) Hemiglossectomy (anterior 2/3 ^{rds})	0	0	0	0	0	0	2	62	0	64
A3) Subtotal glossectomy (anterior 2/3 ^{rds})	0	0	0	0	0	0	2	20	0	22
A6) Total glossectomy	0	0	0	0	0	0	1	20	0	21
C1) Resection of the lip	18	1	0	0	0	1	0	0	0	20
C3) Resection of lower gingiva	0	0	0	18	1	0	0	0	0	19
D2) Total maxillectomy	0	0	0	0	12	2	0	0	1	15
B3) Hemimandibulectomy	0	0	0	14	0	0	0	0	0	14
A9) Resction of tongue, NOS	0	0	0	0	0	0	0	7	0	7
B9) Mandibulectomy,NOS	0	1	0	3	0	0	1	0	0	5
Others	0	2	0	2	2	6	2	4	0	18
Unknown	3	20	4	38	23	10	24	107	2	231
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.

Carcinoma of the Oral Cavity ----- 2285 Cases

Reconstructive Surgery by Subsite

Reconstructive surgery	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(8) Oral cavity, NOS	Total
0) No reconstruction	10	86	32	121	121	58	110	819	5	1362
D) Free RA MC flap	1	6	4	38	9	2	17	109	0	186
E) Free ALT flap	0	14	10	20	5	3	24	103	0	179
C) Free FA flap	1	7	3	9	1	3	10	59	0	93
5) PM MC flap	0	2	1	20	0	0	10	17	0	50
G) Free fibular OC flap	0	1	0	35	0	0	10	1	1	48
1) Skin graft	1	12	2	3	8	3	7	5	1	42
F) Free scapular OC flap	0	4	3	6	0	0	3	1	0	17
2) Local skin flap	5	0	0	1	0	0	6	3	0	15
4) DP flap	0	0	0	2	0	0	2	5	0	9
3) Mucosal flap	0	0	0	3	0	1	0	0	0	4
8)+ Others	1	2	2	10	4	2	4	23	1	49
9) Unknown	3	20	4	38	23	10	24	107	2	231
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.

ALT: anterolateral thigh.

PM: pectoralis major.

RA: rectus abdominis.

FA: forearm.

LD: latissimus dorsi.

MC: musculocutaneous.

OC: osteocutaneous.

DP: deltopectoral.

Carcinoma of the Oral Cavity ----- 2285 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No N.D.	10	77	31	90	93	57	99	622	3	1082
1) Total N.D.	0	11	8	67	13	1	36	171	1	308
2) Selective N.D.	7	40	18	105	38	12	65	323	2	610
3) Lymph node excision	0	0	0	0	2	1	1	3	1	8
8) Others	1	2	0	1	1	0	1	7	1	14
Unknown type	0	0	0	0	0	0	0	0	0	0
9) Unknown	4	24	4	43	24	11	25	126	2	263
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No N.D.	14	123	57	225	131	69	139	933	6	1697
1) Total N.D.	0	1	0	6	3	1	5	27	0	43
2) Selective N.D.	3	4	0	30	11	1	57	160	1	267
3) Lymph node excision	0	0	0	2	1	0	0	0	0	3
8) Others	1	2	0	0	1	0	1	6	1	12
Unknown type	0	0	0	0	0	0	0	0	0	0
9) Unknown	4	24	4	43	24	11	25	126	2	263
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Oral Cavity ----- 2285 Cases

Radiotherapy by Subsite

Type of radiotherapy	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(8) Oral cavity, NOS	Total
0) No radiotherapy	18	93	39	197	101	51	147	943	6	1595
1) X-ray (and/or electron beam)	1	39	18	70	42	18	54	178	2	422
3) B.T.	0	0	0	0	0	0	0	13	0	13
2) Particle beam	0	0	0	0	3	3	1	1	0	8
4) X-ray + Particle beam	0	0	0	0	0	0	0	1	0	1
5) X-ray + B.T.	0	0	0	0	0	0	0	2	0	2
8) Others	0	0	0	0	0	0	0	0	0	0
Unknown type	0	1	0	1	2	0	1	6	0	11
9) Unknown	3	21	4	38	23	10	24	108	2	233
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.

B.T.: brachytherapy.

Carcinoma of the Oral Cavity ----- 2285 Cases

Chemotherapy by Subsite

Route of administration	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No chemotherapy	18	106	42	203	120	61	151	940	5	1646
1) I.V.	0	10	8	45	11	7	38	127	0	246
3) Oral	1	12	6	17	8	0	9	42	2	97
2) I.A.	0	3	1	2	5	2	1	13	0	27
5) I.V.+Oral	0	1	0	0	0	0	2	8	0	11
4) I.V.+I.A.	0	0	0	1	0	0	1	6	1	9
6) I.A.+Oral	0	0	0	0	1	1	0	0	0	2
7) I.V.+I.A.+Oral	0	0	0	0	0	0	0	1	0	1
8) Others	0	0	0	0	0	0	0	0	0	0
Unknow route	0	2	0	0	3	0	1	8	0	14
9) Unknown	3	20	4	38	23	11	24	107	2	232
Total	22	154	61	306	171	82	227	1252	10	2285

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Larynx (2015)

2174 Cases

Carcinoma of the Larynx ----- 2174 Cases

Subsite

Subsite	Number of patients (%)	
Glottis	1562	(71.8)
Supraglottis	515	(23.7)
Subglottis	60	(2.8)
Larynx, NOS	37	(1.7)
Total	2174	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	1	0	1
30 - 39	7	3	10
40 - 49	35	4	39
50 - 59	207	22	229
60 - 69	733	42	775
70 - 79	735	62	797
80 - 89	278	25	303
90 - 100	17	3	20
Total	2013	161	2174

Carcinoma of the Larynx ----- 2174 Cases

Glottis**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	1	0	1
30 - 39	6	2	8
40 - 49	25	2	27
50 - 59	158	9	167
60 - 69	526	25	551
70 - 79	524	44	568
80 - 89	212	13	225
90 - 100	13	2	15
Total	1465	97	1562

Supraglottis**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	1	2
40 - 49	7	2	9
50 - 59	42	12	54
60 - 69	175	16	191
70 - 79	179	15	194
80 - 89	53	8	61
90 - 99	3	1	4
Total	460	55	515

Carcinoma of the Larynx ----- 2174 Cases

Subglottis**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	2	0	2
50 - 59	5	0	5
60 - 69	22	0	22
70 - 79	17	2	19
80 - 89	9	3	12
90 - 99	0	0	0
Total	55	5	60

Carcinoma of the Larynx, NOS**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	2	1	3
60 - 69	10	1	11
70 - 79	15	1	16
80 - 89	4	1	5
90 - 99	1	0	1
Total	33	4	37

NOS: not otherwise specified.

Carcinoma of the Larynx ----- 2174 Cases

Histological Distribution by Subsite

Histologic type	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Adenocarcinoma, NOS	0	0	1	0	1
Adenoid cystic ca.	0	2	0	0	2
Adenosquamous ca.	2	1	0	0	3
Basaloid S.C.C.	0	2	0	0	2
Carcinoid tumor, NOS	0	3	0	0	3
Ca., NOS	2	5	1	3	11
Carcinosarcoma, NOS	0	1	0	0	1
Chondrosarcoma, NOS	0	0	2	3	5
Lymphoepithelial ca.	0	1	0	0	1
Malig.lymphoma, NOS	0	2	0	0	2
Mucoepidermoid ca.	1	1	0	0	2
Neoplasm, malig.	0	1	1	1	3
Neuroendocrine ca., NOS	1	0	0	0	1
Papillary S.C.C.	3	0	0	0	3
Small cell ca., NOS	0	2	0	0	2
Spindle cell ca., NOS	5	0	0	0	5
S.C.C. in situ with quest. stromal invasion	5	2	1	0	8
S.C.C. in situ, NOS	73	12	1	0	86
S.C.C. kerat., NOS	56	14	0	0	70
S.C.C., large cell, nonkerat.	4	2	1	0	7
S.C.C. microinvasive	14	1	0	0	15
S.C.C., NOS	1391	462	52	30	1935
S.C.C. spindle cell	1	0	0	0	1
Verrucous Ca.	4	1	0	0	5
Total	1562	515	60	37	2174

NOS: not otherwise specified.
kerat. :keratinaizing.

ca., Ca.: carcinoma.
nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	2	0	0	0	0	0	0	0	2	4
Tis	75	0	0	0	0	0	0	2	0	77
T1	111 (1)	1	0	2	4	3 (1)	2	1	0	124
T1a	458	0	0	0	1	0	0	1	3	463
T1b	150	0	0	0	1	0	0	0	2	153
T2	456	30	1	4	28 (1)	13 (1)	1	0	2	535
T3	295 (3)	36	0	1	37 (4)	36 (1)	6 (2)	1	1	413
T4	2	0	0	0	1	3	0	0	0	6
T4a	93 (1)	20 (2)	0	2	33 (1)	36	3	2	0	189
T4b	1	0	0	0	0	0	0	0	0	1
TX	6	0	0	0	0	0	0	10	1	17
T-	8	1	0	0	0	1	0	0	182	192
Total	1657	88	1	9	105	92	12	17	193	2174

M1: 18 cases. Number in parentheses indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Larynx ----- 2174 Cases

Glottic Carcinoma**T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	2	0	0	0	0	0	0	0	1	3
Tis	64	0	0	0	0	0	0	2	0	66
T1	51	0	0	0	0	0	0	1	0	52
T1a	456	0	0	0	1	0	0	1	3	461
T1b	148	0	0	0	1	0	0	0	2	151
T2	367	7	0	0	3	0	0	0	0	377
T3	198	15	0	0	7 (1)	5	1	0	1	227
T4	2	0	0	0	1	1	0	0	0	4
T4a	50	10 (1)	0	0	12	11	1	0	0	84
T4b	0	0	0	0	0	0	0	0	0	0
TX	6	0	0	0	0	0	0	8	1	15
T-	4	1	0	0	0	0	0	0	117	122
Total	1348	33	0	0	25	17	2	12	125	1562

M1: 2 cases. Number in parentheses indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Supraglottic Carcinoma**T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	1	1
Tis	11	0	0	0	0	0	0	0	0	11
T1	54 (1)	1	0	2	4	3 (1)	2	0	0	66
T1a	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0
T2	73	22	1	4	24	13 (1)	1	0	1	139
T3	88 (2)	19	0	1	28 (3)	29 (1)	5 (2)	1	0	171
T4	0	0	0	0	0	2	0	0	0	2
T4a	25	6 (1)	0	1	14	21	2	1	0	70
T4b	1	0	0	0	0	0	0	0	0	1
TX	0	0	0	0	0	0	0	0	0	0
T-	4	0	0	0	0	1	0	0	49	54
Total	256	48	1	8	70	69	10	2	51	515

M1:12 cases. Number in parentheses indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Larynx ----- 2174 Cases

Subglottis Carcinoma**T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	5	0	0	0	0	0	0	0	0	5
T1b	1	0	0	0	0	0	0	0	0	1
T2	14	1	0	0	0	0	0	0	1	16
T3	5	1	0	0	0	1	0	0	0	7
T4	0	0	0	0	0	0	0	0	0	0
T4a	13 (1)	4	0	1	4	2	0	0	0	24
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	7	7
Total	38	6	0	1	4	3	0	0	8	60

M1: 1 case. Number in parentheses indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Larynx, NOS**T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
T1	1	0	0	0	0	0	0	0	0	1
T1a	2	0	0	0	0	0	0	0	0	2
T1b	1	0	0	0	0	0	0	0	0	1
T2	2	0	0	0	1 (1)	0	0	0	0	3
T3	4 (1)	1	0	0	2	1	0	0	0	8
T4	0	0	0	0	0	0	0	0	0	0
T4a	5	0	0	0	3 (1)	2	0	1	0	11
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	2	0	2
T-	0	0	0	0	0	0	0	0	9	9
Total	15	1	0	0	6	3	0	3	9	37

M1: 3 cases. Number in parentheses indicate numbers of M1 cases.

NOS: not otherwise specified.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the larynx ----- 2174 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Surgery					
Without	958	252	19	16	1245
With	466	203	34	11	714
Unknown	138	60	7	10	215
Radiotherapy					
Without	410	174	29	13	626
With	1014	281	24	14	1333
Unknown	138	60	7	10	215
Chemotherapy					
Without	1051	248	40	17	1356
With	373	207	13	10	603
Unknown	138	60	7	10	215
Total	1562	515	60	37	2174

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Glottis (C32.0)	Supra- glottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
No treatment	13	9	2	6	30
B) Rad. alone	621	75	7	2	705
A) Surg. alone	376	142	27	7	552
F) (Rad.+Chem.)	304	122	9	6	441
AB) Surg.->Rad.	32	18	4	1	55
AF) Surg.->(Rad.+Chem.)	21	15	2	1	39
CF) Chem.->(Rad.+Chem.)	6	22	0	0	28
CA) Chem.->Surg.	7	8	0	0	15
C) Chem. alone	4	9	0	0	13
FA) (Rad.+Chem.)->Surg.	6	4	0	0	10
AC) Surg.->Chem.	5	2	0	0	7
Others	29	29	2	4	64
Unknown	138	60	7	10	215
Total	1562	515	60	37	2174

NOS: not otherwise specified.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ----- 2174 Cases

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	1	22	536	429	201	35	3	18	1245
With	2	52	185	99	197	152	14	13	714
Unknown	1	3	19	7	15	9	0	161	215
Radiotherapy									
Without	3	51	172	74	180	117	14	15	626
With	0	23	549	454	218	70	3	16	1333
Unknown	1	3	19	7	15	9	0	161	215
Chemotherapy									
Without	3	73	655	245	210	129	16	25	1356
With	0	1	66	283	188	58	1	6	603
Unknown	1	3	19	7	15	9	0	161	215
Total	4	77	740	535	413	196	17	192	2174

T-: without reported T classification.

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	1	0	8	8	6	5	1	1	30
B) Rad. alone	0	21	467	161	36	8	1	11	705
A) Surg. alone	2	51	157	60	153	104	13	12	552
F) (Rad.+Chem.)	0	1	54	242	123	18	1	2	441
AB) Surg.->Rad.	0	1	20	12	12	9	1	0	55
AF) Surg.->(Rad.+Chem.)	0	0	3	12	5	18	0	1	39
CF) Chem.->(Rad.+Chem.)	0	0	1	8	17	1	0	1	28
CA) Chem.->Surg.	0	0	0	2	7	6	0	0	15
C) Chem.alone	0	0	4	1	7	0	0	1	13
FA) (Rad.+Chem.)->Surg.	0	0	0	5	5	0	0	0	10
AC) Surg.->Chem.	0	0	2	0	3	2	0	0	7
FC) (Rad.+Chem.)->Chem.	0	0	0	1	0	1	0	0	2
Others	0	0	5	16	24	15	0	2	62
Unknown	1	3	19	7	15	9	0	161	215
Total	4	77	740	535	413	196	17	192	2174

T-: without reported T classification.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ----- 2174 Cases

Glottic Carcinoma**Treatment Method for the Primary Lesion by T Classification**

Treatment method	T0	Tis	T1	T1a	T1b	T2	T3	T4	TX	T-	Total
Surgery											
Without	1	21	27	333	127	309	119	8	2	11	958
With	2	42	24	118	18	63	102	79	13	5	466
Unknown	0	3	1	10	6	5	6	1	0	106	138
Radiotherapy											
Without	3	41	23	109	14	43	96	63	12	6	410
With	0	22	28	342	131	329	125	24	3	10	1014
Unknown	0	3	1	10	6	5	6	1	0	106	138
Chemotherapy											
Without	3	63	22	433	125	172	122	63	13	15	1031
With	0	0	29	18	20	200	99	24	2	1	393
Unknown	0	3	1	10	6	5	6	1	0	106	138
Total	3	66	52	461	151	377	227	88	15	122	1562

T-: without reported T classification.

Glottic Carcinoma**Sequence of Treatment for the Primary Lesion by T Classification**

Sequence of treatment methods	T0	Tis	T1	T1a	T1b	T2	T3	T4	TX	T-	Total
No treatment	1	0	0	4	2	3	2	0	0	1	13
B) Rad. alone	0	21	19	313	106	122	28	2	1	9	621
A) Surg. alone	2	41	21	102	12	37	86	58	12	5	376
F) (Rad.+Chem.)	0	0	8	13	19	177	79	6	1	1	304
AB) Surg.->Rad.	0	1	1	11	5	7	3	3	1	0	32
AF) Surg.->(Rad.+Chem.)	0	0	0	2	1	9	2	7	0	0	21
CA) Chem.->Surg.	0	0	0	0	0	1	3	3	0	0	7
CF) Chem.->(Rad.+Chem.)	0	0	0	0	0	1	5	0	0	0	6
FA) (Rad.+Chem.)->Surg.	0	0	0	0	0	3	3	0	0	0	6
BA) Rad.->Surg.	0	0	0	1	0	3	1	0	0	0	5
Others	0	0	2	5	0	9	9	8	0	0	33
Unknown	0	3	1	10	6	5	6	1	0	106	138
Total	3	66	52	461	151	377	227	88	15	122	1562

T-: without reported T classification.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ----- 2174 Cases

Supraglottic Carcinoma**Treatment Method for the Primary Lesion by T Classification**

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	1	42	106	75	21	0	7	252
With	0	10	22	32	88	46	0	5	203
Unknown	1	0	2	1	8	6	0	42	60
Radiotherapy									
Without	0	10	22	27	75	34	0	6	174
With	0	1	42	111	88	33	0	6	281
Unknown	1	0	2	1	8	6	0	42	60
Chemotherapy									
Without	0	10	48	65	78	39	0	7	247
With	0	1	16	73	85	28	0	5	208
Unknown	1	0	2	1	8	6	0	42	60
Total	1	11	66	139	171	73	0	54	515

T-: without reported T classification.

Supraglottic Carcinoma**Sequence of Treatment for the Primary Lesion by T Classification**

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	1	4	2	2	0	0	9
A) Surg.	0	10	19	20	60	29	0	4	142
F) (Rad.+Chem.)	0	1	13	55	41	11	0	1	122
B) Rad. alone	0	0	25	36	7	5	0	2	75
CF) Chem.->(Rad.+Chem.)	0	0	1	7	12	1	0	1	22
AB) Surg.->Rad.	0	0	3	4	9	2	0	0	18
AF) Surg.->(Rad.+Chem.)	0	0	0	3	3	8	0	1	15
C) Chem. alone	0	0	2	0	6	0	0	1	9
CA) Chem.->Surg.	0	0	0	1	4	3	0	0	8
FC) (Rad.+Chem.)->Chem.	0	0	0	1	3	1	0	0	5
FA) (Rad.+Chem.)->Surg.	0	0	0	2	2	0	0	0	4
BA) Rad.->Surg.	0	0	0	0	0	1	0	0	1
Others	0	0	0	5	14	4	0	2	25
Unknown	1	0	2	1	8	6	0	42	60
Total	1	11	66	139	171	73	0	54	515

T-: without reported T classification.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ----- 2174 Cases

Subglottis Carcinoma**Treatment Method for the Primary Lesion by T Classification**

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	0	4	11	2	2	0	0	19
With	0	0	2	4	5	21	0	2	34
Unknown	0	0	0	1	0	1	0	5	7
Radiotherapy									
Without	0	0	2	4	6	15	0	2	29
With	0	0	4	11	1	8	0	0	24
Unknown	0	0	0	1	0	1	0	5	7
Chemotherapy									
Without	0	0	5	8	6	19	0	2	40
With	0	0	1	7	1	4	0	0	13
Unknown	0	0	0	1	0	1	0	5	7
Total	0	0	6	16	7	24	0	7	60

T-: without reported T classification.

Subglottic Carcinoma**Sequence of Treatment Methods for the Primary Lesion by T Classification**

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	1	1	0	0	0	2
A) Surg. alone	0	0	2	3	5	15	0	2	27
F) (Rad.+Chem.)	0	0	0	7	1	1	0	0	9
B) Rad. alone	0	0	3	3	0	1	0	0	7
Others	0	0	1	1	0	6	0	0	8
Unknown	0	0	0	1	0	1	0	5	7
Total	0	0	6	16	7	24	0	7	60

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ----- 2174 Cases

Carcinoma of the Larynx, NOS**Treatment Method for the Primary Lesion by T Classification**

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	0	3	3	5	4	1	0	16
With	0	0	1	0	2	6	1	1	11
Unknown	0	0	0	0	1	1	0	8	10
Radiotherapy									
Without	0	0	2	0	3	5	2	1	13
With	0	0	2	3	4	5	0	0	14
Unknown	0	0	0	0	1	1	0	8	10
Chemotherapy									
Without	0	0	3	0	4	7	2	1	17
With	0	0	1	3	3	3	0	0	10
Unknown	0	0	0	0	1	1	0	8	10
Total	0	0	4	3	8	11	2	9	37

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Larynx, NOS**Sequence of Treatment Methods for the Primary Lesion by T Classification**

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	1	0	1	3	1	0	6
A) Surg. alone	0	0	1	0	2	2	1	1	7
F) (Rad.+Chem.)	0	0	1	3	2	0	0	0	6
B) Rad. alone	0	0	1	0	1	0	0	0	2
Others	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	1	1	0	8	10
Total	0	0	4	3	7	6	2	9	31

NOS: not otherwise specified.

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Larynx ----- 2174 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method		Glottis (C32.0)	Supra- glottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
X0)	No surgery	957	252	19	16	1244
G5)	Total laryngectomy	186	131	27	7	351
G2) F2)	Transoral resection	201	40	3	0	244
G1)	Endoscopic resection	31	7	0	0	38
G3)	Partial laryngectomy	19	7	2	1	29
G4)	Subtotal laryngectomy	10	1	0	0	11
F1)	Endoscopic resection	6	2	0	0	8
F5)	Total pharyngolaryngectomy	2	4	0	2	8
F6)	Total laryngopharyngo- esophagectomy	0	3	1	1	5
F3)	Partial hypopharyngectomy	4	0	0	0	4
G9)X9)+	Laryngectomy, other type, Others	8	8	1	0	17
	Unknown	138	60	7	10	215
Total		1562	515	60	37	2174

NOS: not otherwise specified

Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	1	22	535	429	201	35	3	18	1244
G5)	Total laryngectomy	0	0	1	35	170	137	1	7	351
G2)F2)	Transoral resection	2	39	144	41	3	1	8	6	244
G1)	Endoscopic resection	0	11	19	4	0	0	4	0	38
G3)	Partial laryngectomy	0	0	8	9	11	1	0	0	29
G4)	Subtotal laryngectomy	0	0	0	6	5	0	0	0	11
F5)	Total pharyngolaryngectomy	0	0	0	0	4	4	0	0	8
F1)	Endoscopic resection	0	2	4	1	0	0	1	0	8
F6)	Total laryngopharyngo- esophagectomy	0	0	0	1	1	3	0	0	5
G9)	Laryngectomy, other type	0	0	0	0	3	2	0	0	5
	Laryngectomy, other type, Others	0	0	9	2	0	4	0	0	15
	Unknown	1	3	20	7	15	9	0	161	216
Total		4	77	740	535	413	196	17	192	2174

T-: without reported T classification.

Carcinoma of the Larynx ----- 2174 Cases

Glottic Carcinoma**Surgical Method for the Primary Lesion by T Classification**

Surgical method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0) No surgery	1	21	486	309	119	8	2	11	957
G2) F2) Transoral resection	2	34	126	26	2	0	8	3	201
G5) Total laryngectomy	0	0	1	18	89	76	0	2	186
G1) Endoscopic resection	0	7	18	2	0	0	4	0	31
G3) Partial laryngectomy	0	0	4	8	6	1	0	0	19
G4) Subtotal laryngectomy	0	0	0	6	4	0	0	0	10
F1) Endoscopic resection	0	1	3	1	0	0	1	0	6
F3) Partial hypopharyngectomy	0	0	2	2	0	0	0	0	4
F5) Total pharyngolaryngectomy	0	0	0	0	0	2	0	0	2
G9)X9) Laryngectomy, other type, Others	0	0	6	0	1	0	0	0	7
Unknown	0	3	18	5	6	1	0	106	139
Total	3	66	664	377	227	88	15	122	1562

T-: without reported T classification.

Supraglottic Carcinoma**Surgical Method for the Primary Lesion by T Classification**

Surgical method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0) No surgery	0	1	42	106	75	21	0	7	252
G5) Total laryngectomy	0	0	0	15	75	39	0	2	131
G2) F2) Transoral resection	0	5	17	13	1	1	0	3	40
G3) Partial laryngectomy	0	0	2	1	4	0	0	0	7
G1) Endoscopic resection	0	4	1	2	0	0	0	0	7
F5) Total pharyngolaryngectomy	0	0	0	0	4	0	0	0	4
F6) Total laryngopharyngo- esophagectomy	0	0	0	1	1	1	0	0	3
F1) Endoscopic resection	0	1	1	0	0	0	0	0	2
G4) Subtotal laryngectomy	0	0	0	0	1	0	0	0	1
F4) Total laryngectomy +Partial pharyngectomy	0	0	0	0	0	1	0	0	1
H5) Extended parotidectomy	0	0	0	0	0	1	0	0	1
G9)X9) Laryngectomy, other type, Others	0	0	1	0	2	3	0	0	6
Unknown	1	0	2	1	8	6	0	42	60
Total	1	11	66	139	171	73	0	54	515

T-: without reported T classification.

Carcinoma of the Larynx ----- 2174 Cases

Subglottic Carcinoma**Surgical Method for the Primary Lesion by T Classification**

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	0	4	11	2	2	0	0	19
G5)	Total laryngectomy	0	0	0	2	4	19	0	2	27
G2)	Transoral resection	0	0	1	2	0	0	0	0	3
G3)	Partial laryngectomy	0	0	1	0	1	0	0	0	2
F4)	Total laryngectomy +Partial pharyngectomy	0	0	0	0	0	1	0	0	1
F6)	Total laryngopharyngo- esophagectomy	0	0	0	0	0	1	0	0	1
	Unknown	0	0	0	1	0	1	0	5	7
Total		0	0	6	16	7	24	0	7	60

T-: without reported T classification.

Carcinoma of the Larynx, NOS**Surgical Method for the Primary Lesion by T Classification**

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	0	0	3	5	4	1	0	13
G5)	Total laryngectomy	0	0	3	0	2	3	1	1	10
F5)	Total pharyngolaryngectomy	0	0	0	0	0	2	0	0	2
G3)	Partial laryngectomy	0	0	1	0	0	0	0	0	1
F6)	Total laryngopharyngo- esophagectomy	0	0	0	0	0	1	0	0	1
	Unknown	0	0	0	0	1	1	0	8	10
Total		0	0	4	3	8	11	2	9	37

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the larynx ----- 2174 Cases

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Surgery					
Without	1269	305	30	19	1623
With	155	149	22	8	334
Unknown	138	61	8	10	217
Radiotherapy					
Without	1221	259	39	20	1539
With	203	195	13	7	418
Unknown	138	61	8	10	217
Chemotherapy					
Without	1291	293	44	22	1650
With	133	161	8	5	307
Unknown	138	61	8	10	217
Total	1562	515	60	37	2174

NOS: not otherwise specified.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Glottis (C32.0)	Supra-glottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No N.D.	1270	304	30	19	1623
1) Total N.D.	28	29	2	2	61
2) Selective N.D.	111	117	20	5	253
3) Lymph node excision	0	2	0	0	2
8) Others	12	1	0	1	14
9) Unknown type	3	1	0	0	4
Unknown	138	61	8	10	217
Total	1562	515	60	37	2174

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Larynx ----- 2174 Cases

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Glottis (C32.0)	Supra- glottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No N.D.	1331	355	41	20	1747
1) Total N.D.	13	13	0	2	28
2) Selective N.D.	65	84	11	4	164
8) Others	12	1	0	1	14
9) Unknown type	3	1	0	0	4
Unknown	138	61	8	10	217
Total	1562	515	60	37	2174

NOS: not otherwise specified.

N.D.: neck dissection.

Reconstructive Surgery for the Primary Lesion by Subsite

Reconstructive surgery	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No reconstruction	1415	421	50	24	1910
B) Free jejunal flap	3	14	1	3	21
5) PM MC flap	2	3	0	0	5
4) DP flap	0	6	2	0	8
E) Free ALT flap	1	6	0	0	7
7) Gastric pull up	0	0	0	0	0
C) Free FA flap	0	3	0	0	3
3) Mucosal flap	0	0	0	0	0
2) Local skin flap	2	0	0	0	2
D) Free RA MC flap	1	0	0	0	1
8) +Others	0	2	0	0	2
Unknown	138	60	7	10	215
Total	1562	515	60	37	2174

NOS: not otherwise specified.

PM: pectoralis major.

MC: musculocutaneous.

DP: deltopectoral.

ALT: anterolateral thigh.

FA: forearm.

RA: rectus abdominis.

Carcinoma of the Larynx ----- 2174 Cases

Radiotherapy by Subsite

Type of radiotherapy	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No radiotherapy	408	170	28	12	618
1) X-ray (and/or electron beam)	982	273	25	10	1290
2) Particle beam	1	0	0	0	1
4) X-ray+Particle beam	4	0	0	0	4
8) others	0	0	0	0	0
Unknown type	26	11	0	5	42
9) Unknown	141	61	7	10	219
Total	1562	515	60	37	2174

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No chemotherapy	1041	244	39	17	1341
1) I.V.	254	161	12	7	434
3) Oral	101	20	1	1	123
5) I.V.+Oral	3	7	0	0	10
2) I.A.	1	2	0	0	3
4) I.V.+I.A.	2	0	0	0	2
7) I.V.+I.A.+Oral	0	0	0	0	0
8) Others	0	1	0	0	1
Unknow route	13	18	0	2	33
9) Unknown	147	62	8	10	227
Total	1562	515	60	37	2174

NOS: not otherwise specified.

I.V.: Intravenous.

I.A.: intraarterial.

Hypopharynx (2015)

2069 Cases

Carcinoma of the Hypopharynx ----- 2069 Cases

Subsite

Subsite	Number of patients (%)	
Postcricoid	173	(8.4)
Pyriiform sinus	1496	(72.3)
Posterior wall	301	(14.5)
Hypopharynx, NOS	99	(4.8)
Total	2069	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	2	0	2
30 - 39	4	3	7
40 - 49	41	17	58
50 - 59	239	42	281
60 - 69	784	46	830
70 - 79	659	43	702
80 - 89	160	20	180
90 - 99	6	3	9
Total	1895	174	2069

Carcinoma of the Hypopharynx ----- 2069 Cases

Postcricoid**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	6	0	6
50 - 59	18	5	23
60 - 69	56	11	67
70 - 79	52	9	61
80 - 89	11	2	13
90 - 99	1	1	2
Total	145	28	173

Pyriform Sinus**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	2	0	2
30 - 39	3	2	5
40 - 49	30	12	42
50 - 59	164	25	189
60 - 69	574	29	603
70 - 79	496	25	521
80 - 89	118	9	127
90 - 99	5	2	7
Total	1392	104	1496

Carcinoma of the Hypopharynx ----- 2069 Cases

Posterior Wall**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	1	1
40 - 49	4	3	7
50 - 59	42	8	50
60 - 69	119	5	124
70 - 79	86	9	95
80 - 89	16	8	24
90 - 99	0	0	0
Total	267	34	301

Hypopharynx, NOS**Age Distribution by Gender**

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	2	3
50 - 59	15	4	19
60 - 69	35	1	36
70 - 79	25	0	25
80 - 89	15	1	16
90 - 99	0	0	0
Total	91	8	99

Carcinoma of the Hypopharynx ----- 2069 Cases

Histological Distribution by Subsite

Histologic type	Postcricoid	Pyrimform	Posterior	Hypophary	Total
	(C13.0)	sinus (C12.9) (C13.1)	wall (C13.2)	nx, NOS (C13.9)	
Adenocarcinoma, NOS	0	1	0	0	1
Adenoid cystic ca.	1	0	0	0	1
Adenosquamous ca.	1	0	1	0	2
Basaloid S.C.C.	2	2	0	0	4
Basal cell ca.,NOS	0	0	1	0	1
Ca., NOS	1	7	1	2	11
Chondrosarcoma,NOS	0	1	0	0	1
Ewing sa.	0	1	0	0	1
Lipisarcoma,NOS	0	0	1	0	1
Lymphoepithelial ca.	0	1	0	0	1
Malig. lymphoma,NOS	0	1	0	0	1
Mucoepidermoid ca.	0	1	0	0	1
Neoplasm, malig.	0	2	0	2	4
Neuroendocrine ca.,NOS	0	1	0	1	2
Rhabdomyosarcoma,NOS	1	0	0	0	1
Small cell ca., NOS	0	2	0	0	2
Spindle cell ca., NOS	0	4	1	0	5
S.C.C. in situ, NOS	5	54	10	4	73
S.C.C. in situ with quest. stromal invasion	1	3	1	0	5
S.C.C. kerat., NOS	7	39	8	7	61
S.C.C. large cell, nonkerat.	3	4	0	0	7
S.C.C. microinvasive	2	8	2	0	12
S.C.C., NOS	148	1359	275	83	1865
S.C.C. small cell, nonkerat.	1	5	0	0	6
Total	173	1496	301	99	2069

NOS: not otherwise specified.

S.C.C.: squamous cell carcinoma.

kerat. :keratinizing.

ca.,Ca.: carcinoma.

quest.:questionable

nonkerat.: nonkeratinizing.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	1
Tis	75	1	0	0	0	1	0	1	1	79
T1	216 (1)	15	0	9	49 (1)	7 (1)	9 (2)	0	7	312
T2	284 (1)	84 (1)	0	21	164 (3)	64 (5)	23 (5)	1	2	643
T3	104 (2)	51 (1)	1 (1)	5	131 (6)	74 (7)	13 (3)	2	1	382
T4	4 (1)	2	1	0	5	9 (2)	0	0	0	21
T4a	51 (1)	37 (1)	1	4	173 (14)	115 (18)	18 (2)	0	1	400
T4b	7 (1)	7	0	0	13 (2)	23 (3)	2 (1)	0	1	53
TX	2	0	0	0	2	0	0	5	0	9
T-	48 (1)	1	0	0	4	3	1	0	112	169
Total	792	198	3	39	541	296	66	9	125	2069

M1: 87 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Hypopharynx ----- 2069 Cases

Postcricoid
T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	2	0	0	0	0	0	0	0	0	2
T1	18	1	0	0	4	0	0	0	0	23
T2	26	14	0	2	15	13 (1)	4(1)	0	0	74
T3	15	3	0	0	2	9 (3)	2	0	0	31
T4	0	0	0	0	0	2	0	0	0	2
T4a	3	0	0	0	7 (2)	14 (2)	1	0	0	25
T4b	1	1	0	0	1 (1)	0	0	0	0	3
TX	0	0	0	0	0	0	0	0	0	0
T-	6(1)	0	0	0	0	2	0	0	5	13
Total	71	19	0	2	29	40	7	0	5	173

M1: 11 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Pyriiform Sinus
T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	55	0	0	0	0	1	0	1	0	57
T1	159(1)	11	0	9	42 (1)	4 (1)	9(2)	0	4	238
T2	186	57(1)	0	18	125 (3)	41 (3)	15(2)	1	2	445
T3	63(2)	36	1(1)	5	116 (6)	50 (3)	9(2)	1	1	282
T4	3(1)	2	0	0	5	5 (2)	0	0	0	15
T4a	40(1)	32	1	2	150(12)	76(12)	17(2)	0	1	319
T4b	2	1	0	0	9 (1)	12 (2)	2(1)	0	1	27
TX	0	0	0	0	1	0	0	3	0	4
T-	33	0	0	0	4	1	1	0	70	109
Total	541	139	2	34	452	190	53	6	79	1496

M1: 62 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Hypopharynx ----- 2069 Cases

Posterior Wall**T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	1
Tis	14	1	0	0	0	0	0	0	1	16
T1	31	3	0	0	3	2	0	0	2	41
T2	56 (1)	10	0	0	20	6 (1)	3 (1)	0	0	95
T3	20	9 (1)	0	0	8	12 (1)	2 (1)	0	0	51
T4	0	0	1	0	0	2	0	0	0	3
T4a	6	3 (1)	0	0	11	16 (3)	0	0	0	36
T4b	4 (1)	5	0	0	3	9 (1)	0	0	0	21
TX	2	0	0	0	0	0	0	0	0	2
T-	9	1	0	0	0	0	0	0	25	35
Total	143	32	1	0	45	47	5	0	28	301

M1: 12 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Hypopharynx, NOS**T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
Tis	4	0	0	0	0	0	0	0	0	4
T1	8	0	0	0	0	1	0	0	1	10
T2	16	3	0	1	4	4	1 (1)	0	0	29
T3	6	3	0	0	5	3	0	1	0	18
T4	1	0	0	0	0	0	0	0	0	1
T4a	2	2	0	2	5	9 (1)	0	0	0	20
T4b	0	0	0	0	0	2	0	0	0	2
TX	0	0	0	0	1	0	0	2	0	3
T-	0	0	0	0	0	0	0	0	12	12
Total	37	8	0	3	15	19	1	3	13	99

NOS: not otherwise specified.

M1: 2 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Hypopharynx ----- 2069 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Postericoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
Without	89	749	123	44	1005
With	79	654	146	39	918
Unknown	5	93	32	16	146
Radiotherapy					
Without	67	549	122	41	779
With	101	854	147	42	1144
Unknown	5	93	32	16	146
Chemotherapy					
Without	73	635	135	43	886
With	95	768	134	40	1037
Unknown	5	93	32	16	146
Total	173	1496	301	99	2069

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Postericoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
Without	114	901	185	58	1258
With	54	502	84	25	665
Unknown	5	93	32	16	146
Radiotherapy					
Without	79	692	149	57	977
With	89	711	120	26	946
Unknown	5	93	32	16	146
Chemotherapy					
Without	79	727	165	53	1024
With	89	676	104	30	899
Unknown	5	93	32	16	146
Total	173	1496	301	99	2069

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 2069 Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods		Postcricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
	No treatment	5	36	6	7	54
A)	Surg. alone	49	411	97	25	582
F)	(Rad.+Chem.)	44	369	56	13	482
B)	Rad. alone	13	138	17	8	176
CF)	Chem.->(Rad.+Chem.)	17	111	21	6	155
AF)	Surg.->(Rad.+Chem.)	7	72	11	2	92
AB)	Surg.->Rad.	4	41	13	0	58
C)	Chem. alone	5	40	9	4	58
CA)	Chem.->Surg.	5	33	5	2	45
CAF)	Chem.->Surg.->(Rad.+Chem.)	4	20	4	2	30
CAB)	Chem.->Surg.->Rad.	3	17	2	4	26
CB)	Chem.->Rad.	2	17	2	3	24
FA)	(Rad.+Chem.)->Surg.	3	13	2	0	18
AC)	Surg.->Chem.	1	13	2	1	17
FC)	(Rad.+Chem.)->Chem.	0	9	5	0	14
CFC)	Chem.->(Rad.+Chem.)->Chem.	1	10	3	0	14
CC)	Chem.->Chem.	1	5	1	0	7
D)	Surg.+Rad.	2	1	2	1	6
G)	Surg.+Rad.+Chem.	0	6	0	0	6
	Others	2	41	11	5	59
	Unknown	5	93	32	16	146
Total		173	1496	301	99	2069

Carcinoma of the Hypopharynx ----- 2069 Cases

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	5	111	434	207	229	3	16	1005
With	1	71	193	194	168	235	3	53	627
Unknown	0	3	8	15	7	10	3	100	146
Radiotherapy									
Without	1	71	191	166	136	157	4	53	779
With	0	5	113	462	239	307	2	16	1144
Unknown	0	3	8	15	7	10	3	100	146
Chemotherapy									
Without	1	73	226	229	137	160	4	56	886
With	0	3	78	399	238	304	2	13	1037
Unknown	0	3	8	15	7	10	3	100	146
Total	1	79	312	643	382	474	9	169	2069

T-: without reported T classification.

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of Treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	7	9	16	20	1	1	54
A) Surg. alone	1	70	173	120	80	84	3	51	582
F) (Rad.+Chem.)	0	2	48	255	96	74	2	5	482
B) Rad. alone	0	2	42	82	20	28	0	2	176
CF) Chem.->(Rad.+Chem.)	0	0	4	46	46	57	0	2	155
AF) Surg.->(Rad.+Chem.)	0	0	10	15	22	45	0	0	92
AB) Surg.->Rad.	0	1	4	13	15	23	0	2	58
C) Chem. alone	0	1	7	15	11	23	0	1	58
CA) Chem.->Surg.	0	0	2	12	16	15	0	0	45
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	1	3	4	22	0	0	30
CAB) Chem.->Surg.->Rad.	0	0	0	4	6	16	0	0	26
CB) Chem.->Rad.	0	0	2	12	4	5	0	1	24
FA) (Rad.+Chem.)->Surg.	0	0	0	8	3	6	0	0	17
AC) Surg.->Chem.	0	0	2	3	4	8	0	0	17
FC) (Rad.+Chem.)->Chem.	0	0	0	7	4	3	0	0	14
CFC) Chem.->(Rad.+Chem.)->Chem.	0	0	0	3	2	8	0	1	14
CC) Chem.->Chem.	0	0	0	1	2	4	0	0	7
Others	0	0	2	20	24	23	0	3	72
Unknown	0	3	8	15	7	10	3	100	146
Total	1	79	312	643	382	474	9	169	2069

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 2069 Cases

Postcricoid**Treatment Method for the Primary Lesion by T Classification**

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	0	6	50	16	15	0	2	89
With	0	2	17	24	15	15	0	6	79
Unknown	0	0	0	0	0	0	0	5	5
Radiotherapy									
Without	0	2	17	20	15	9	0	5	68
With	0	0	6	54	16	21	0	3	100
Unknown	0	0	0	0	0	0	0	5	5
Chemotherapy									
Without	0	2	23	23	14	6	0	6	74
With	0	0	0	51	17	24	0	2	94
Unknown	0	0	0	0	0	0	0	5	5
Total	0	2	23	74	31	30	0	13	173

T-: without reported T classification.

Postcricoid**Sequence of Treatment Methods for the Primary Lesion by T Classification**

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	2	2	1	0	0	5
A) Surg. alone	0	2	16	16	9	1	0	5	49
F) (Rad.+Chem.)	0	0	0	32	6	5	0	1	44
CF) Chem.->(Rad.+Chem.)	0	0	0	9	4	4	0	0	17
B) Rad. alone	0	0	6	4	1	2	0	0	13
AF) Surg.->(Rad.+Chem.)	0	0	1	2	1	3	0	0	7
C) Chem. Alone	0	0	0	0	2	3	0	0	5
CA) Chem.->Surg.	0	0	0	1	1	3	0	0	5
AB) Surg.->Rad.	0	0	0	1	1	1	0	1	4
CAB) Chem.->Surg.->Rad.	0	0	0	0	1	2	0	0	3
Others	0	0	0	7	3	5	0	1	16
Unknown	0	0	0	0	0	0	0	5	5
Total	0	2	23	74	31	30	0	13	173

T-: without reported T classification.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 2069 Cases

Pyriform Sinus

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	4	93	315	162	164	2	9	749
With	0	52	139	122	114	190	1	36	654
Unknown	0	1	6	8	6	7	1	64	93
Radiotherapy									
Without	0	52	143	103	93	118	2	38	549
With	0	4	89	334	183	236	1	7	854
Unknown	0	1	6	8	6	7	1	64	93
Chemotherapy									
Without	0	53	167	154	93	129	2	37	635
With	0	3	65	283	183	225	1	8	768
Unknown	0	1	6	8	6	7	1	64	93
Total	0	57	238	445	282	361	4	109	1496

T-: without reported T classification.

Pyriform Sinus

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	6	5	10	13	1	1	36
A) Surg. alone	0	51	126	70	54	73	1	36	411
F) (Rad.+Chem)	0	2	41	188	77	57	1	3	369
B) Rad. alone	0	1	34	65	16	22	0	0	138
CF) Chem.->(Rad.+Chem.)	0	0	2	30	38	39	0	2	111
AF) Surg.->(Rad.+Chem.)	0	0	6	9	16	41	0	0	72
AB) Surg.->Rad.	0	1	1	10	10	19	0	0	41
C) Chem. alone	0	1	7	10	8	13	0	1	40
CA) Chem.->Surg.	0	0	2	10	13	8	0	0	33
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	1	1	3	15	0	0	20
CAB) Chem.->Surg.->Rad.	0	0	0	3	4	10	0	0	17
CB) Chem.->Rad.	0	0	2	8	3	4	0	0	17
AC) Surg.->Chem.	0	0	2	2	3	6	0	0	13
FA) (Rad.+Chem.)->Surg.	0	0	0	5	1	6	0	0	12
CFC) Chem.->(Rad.+Chem.)->Chem.	0	0	0	2	2	5	0	1	10
FC) (Rad.+Chem.)->Chem.	0	0	0	4	2	3	0	0	9
G) (Surg.+Rad.+Chem.)	0	0	0	0	0	6	0	0	6
Others	0	0	2	15	16	14	0	1	48
Unknown	0	1	6	8	6	7	1	64	93
Total	0	57	238	445	282	361	4	109	1496

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 2069 Cases

Posterior Wall**Treatment Method for the Primary Lesion by T Classification**

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	0	9	50	21	38	0	5	123
With	1	15	32	39	29	19	1	10	146
Unknown	0	1	0	6	1	3	1	20	32
Radiotherapy									
Without	1	15	28	32	16	20	1	9	122
With	0	0	13	57	34	37	0	6	147
Unknown	0	1	0	6	1	3	1	20	32
Chemotherapy									
Without	1	15	31	41	18	16	1	12	135
With	0	0	10	48	32	41	0	3	134
Unknown	0	1	0	6	1	3	1	20	32
Total	1	16	41	95	51	60	2	35	301

T-: without reported T classification.

Posterior Wall**Sequence of Treatment Methods for the Primary Lesion by T Classification**

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	1	0	1	4	0	0	6
A) Surg. alone	1	15	27	27	10	7	1	9	97
F) (Rad.+Chem.)	0	0	6	25	13	11	0	1	56
CF) Chem.->(Rad.+Chem.)	0	0	2	5	2	12	0	0	21
B) Rad. alone	0	0	0	11	2	2	0	2	17
AB) Surg.->Rad.	0	0	3	2	4	3	0	1	13
AF) Surg.->(Rad.+Chem.)	0	0	2	3	5	1	0	0	11
C) Chem. Alone	0	0	0	3	1	5	0	0	9
CA) Chem.->Surg.	0	0	0	1	2	2	0	0	5
FC) (Rad. +Chem.)->Chem.	0	0	0	3	2	0	0	0	5
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	0	4	0	0	4
Others	0	0	0	9	8	6	0	2	25
Unknown	0	1	0	6	1	3	1	20	32
Total	1	16	41	95	51	60	2	35	301

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 2069 Cases

Hypopharynx, NOS**Treatment Method for the Primary Lesion by T Classification**

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	1	3	19	8	12	1	0	44
With	0	2	5	9	10	11	1	1	39
Unknown	0	1	2	1	0	0	1	11	16
Radiotherapy									
Without	0	2	4	11	12	10	1	1	41
With	0	1	4	17	6	13	1	0	42
Unknown	0	1	2	1	0	0	1	11	16
Chemotherapy									
Without	0	3	6	11	12	9	1	1	43
With	0	0	2	17	6	14	1	0	40
Unknown	0	1	2	1	0	0	1	11	16
Total	0	4	10	29	18	23	3	12	99

NOS: not otherwise specified.

T-: without reported T classification.

Hypopharynx, NOS**Sequence of Treatment Methods for the Primary Lesion by T Classification**

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	2	3	2	0	0	7
A) Surg. alone	0	2	4	7	7	3	1	1	25
B) Rad. alone	0	1	2	2	1	2	0	0	8
F) (Rad.+Chem.)	0	0	1	10	0	1	1	0	13
CF) Chem.->(Rad.+Chem.)	0	0	0	2	2	2	0	0	6
C) Chem. alone	0	0	0	2	0	2	0	0	4
CAB) Chem.->Surg.->Rad.	0	0	0	0	1	3	0	0	4
Others	0	0	1	3	4	8	0	0	16
Unknown	0	1	2	1	0	0	1	11	16
Total	0	4	10	29	18	23	3	12	99

NOS: not otherwise defined.

T-: without reported T classification.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 2069 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method	Postcricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypophar- ynx, NOS (C13.9)	Total
X0) No surgery	89	749	123	44	1005
F5) Total pharyngolaryngectomy	24	188	39	8	259
F2)G2) Transoral resection	18	141	37	3	199
F1)G1) Endoscopic resection	13	120	34	10	177
F6) Total pharyngolaryngo- esophagectomy	15	105	18	11	149
F3) Partial hypopharyngectomy	1	29	8	1	39
F4) Total laryngectomy +Partial pharyngectomy	4	30	2	1	37
F7) Hypopharyngectomy +Cervical esophagectomy	1	20	3	2	26
G5) Total laryngectomy	2	9	0	0	11
F9)+ Others	1	12	5	3	21
Unknown	5	93	32	16	146
Total	173	1496	301	99	2069

NOS: not otherwise specified

Surgical Method for the Primary Lesion by T Classification

Surgical method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0) No surgery	0	5	111	434	207	229	3	16	1005
F5) Total pharyngolaryngectomy	0	1	5	39	89	122	0	3	259
F2)G2) Transoral resection	0	35	67	42	6	2	1	46	199
F1)G1) Endoscopic resection	0	34	106	33	2	0	1	1	177
F6) Total pharyngolaryngo- esophagectomy	0	0	1	29	40	78	0	1	149
F3) Partial hypopharyngectomy	0	0	8	24	5	2	0	0	39
F4) Total laryngectomy +Partial pharyngectomy	0	0	1	12	14	10	0	0	37
F7) Hypopharyngectomy +Cervical esophagectomy	0	0	0	2	6	18	0	0	26
G5) Total laryngectomy	0	0	0	4	5	2	0	0	11
F9)+ Others	1	1	5	9	1	1	1	2	21
Unknown	0	3	8	15	7	10	3	100	146
Total	1	79	312	643	382	474	9	169	2069

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 2069 Cases

Postcricoid**Surgical Method for the Primary Lesion by T Classification**

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	0	6	50	16	15	0	2	89
F5)	Total pharyngolaryngectomy	0	0	1	7	7	9	0	0	24
F2)	Transoral resection	0	0	7	5	1	0	0	5	18
F6)	Total pharyngolaryngo- esophagectomy	0	0	0	5	5	4	0	1	15
F1)	Endoscopic resection	0	2	7	3	0	0	0	0	12
F4)	Total laryngectomy +Partial pharyngectomy	0	0	0	2	2	0	0	0	4
F9)	Others	0	0	2	2	0	2	0	0	6
	Unknown	0	0	0	0	0	0	0	5	5
Total		0	2	23	74	31	30	0	13	173

T-: without reported T classification.

Pyriform sinus**Surgical Method for the Primary Lesion by T Classification**

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	4	93	315	162	164	2	9	749
F5)	Total pharyngolaryngectomy	0	0	2	24	59	101	0	2	188
F2)G2)	Transoral resection	0	27	49	27	3	1	1	33	141
F1)G1)	Endoscopic resection	0	24	78	17	1	0	0	0	120
F6)	Total pharyngolaryngo- esophagectomy	0	0	1	16	26	62	0	0	105
F4)	Total laryngectomy	0	0	0	8	12	10	0	0	30
F3)	Partial pharyngectomy	0	0	7	19	2	1	0	0	29
F7)	Hypopharyngectomy	0	0	0	1	5	14	0	0	20
G5)	Total laryngectomy +Cervical esophagectomy	0	0	0	3	5	1	0	0	9
F9)+	Others	0	1	2	7	1	0	0	1	12
	Unknown	0	1	6	8	6	7	1	64	93
Total		0	57	238	445	282	361	4	109	1496

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 2069 Cases

Posterior wall**Surgical Method for the Primary Lesion by T Classification**

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	0	9	50	21	38	0	5	123
F5)	Total pharyngolaryngectomy	0	0	2	7	21	8	0	1	39
F2)	Transoral resection	0	8	10	8	2	1	0	8	37
F1)	Endoscopic resection	0	7	16	10	0	0	0	1	34
F6)	Total pharyngolaryngo- esophagectomy	0	0	0	7	4	7	0	0	18
F3)	Partial pharyngectomy	0	0	1	4	2	1	0	0	8
F9)+	Others	1	0	3	3	0	2	1	0	10
	Unknown	0	1	0	6	1	3	1	20	32
Total		1	16	41	95	51	60	2	35	301

T-: without reported T classification.

Hypopharynx, NOS**Surgical Method for the Primary Lesion by T Classification**

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	1	3	19	8	12	1	0	44
F6)	Total pharyngolaryngo- esophagectomy	0	0	0	1	5	5	0	0	11
F1)G1)	Endoscopic resection	0	1	4	3	1	0	1	0	10
F5)	Total pharyngolaryngectomy	0	1	0	1	2	4	0	0	8
F2)G2)	Transoral resection	0	0	1	2	0	0	0	0	3
	Others	0	0	0	2	2	2	0	1	7
	Unknown	0	1	2	1	0	0	1	11	16
Total		0	4	10	29	18	23	3	12	99

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 2069 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Postcricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	114	902	185	57	1258
1) Total N.D.	11	134	19	6	170
2) Selective N.D.	43	353	60	16	472
3) Lymph node excision	0	2	1	0	3
8) Others	0	4	3	1	8
Unknown type	0	0	0	0	0
9) Unknown	5	101	33	19	158
Total	173	1496	301	99	2069

NOS: not otherwise specified.
N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Postcricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	130	1086	202	61	1479
1) Total N.D.	6	56	9	6	77
2) Selective N.D.	32	249	52	12	345
3) Lymph node excision	0	0	2	0	2
8) Others	0	4	3	1	8
9) Unknown	5	101	33	19	158
Total	173	1496	301	99	2069

NOS: not otherwise specified.
N.D.: neck dissection.

Carcinoma of the Hypopharynx ----- 2069 Cases

Reconstructive Surgery by Subsite

Reconstructive surgery	Postericoid (C13.0)	Pyriiform sinus (C12.9)(C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No reconstruction	127	1065	204	62	1458
B) Free jejunal flap	34	279	56	18	387
5) PM MC flap	2	17	0	0	19
7) Gastric pull-up	4	10	2	2	18
E) Free ALT flap	0	15	2	0	17
C) Free FA flap	0	10	3	0	13
2) Local skin lap	0	1	1	0	2
4) DP flap	0	1	0	0	1
8) Others	1	5	1	1	8
Unknown	5	93	32	16	146
Total	173	1496	301	99	2069

NOS: not otherwise specified.
MC: musculocutaneous.

FA: forearm.
ALT: anterolateral thigh.

PM: pectoralis major.
DP: deltopectoral.

Carcinoma of the Hypopharynx ----- 2069 Cases

Radiotherapy by Subsite

Type of radiotherapy	Postericoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No radiotherapy	65	534	117	40	756
1) X-ray (and/or electron beam)	97	831	136	32	1096
2) Particle beam	0	2	0	2	4
4) X-ray+Particle beam	0	1	0	0	1
Unknown type	6	34	16	9	65
9) Unknown	5	94	32	16	147
Total	173	1496	301	99	2069

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Postericoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No chemotherapy	72	625	135	42	874
1) I.V.	81	646	103	31	861
3) Oral	4	42	5	2	53
5) I.V. + Oral	5	33	9	1	48
2) I.A.	0	11	0	0	11
4) I.V.+ I.A.	0	1	0	0	1
6) I.A. + Oral	0	1	0	0	1
7) I.V.+ I.A.+ Oral	0	1	0	0	1
Unknow route	6	43	17	7	73
9) Unknown	5	93	32	16	146
Total	173	1496	301	99	2069

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Oropharynx (2015)

1530 Cases

Carcinoma of the Oropharynx ----- 1530 Cases

Subsite

Subsite	Number of patients (%)	
Superior wall	117	(7.6)
Lateral wall	869	(56.8)
Posterior wall	106	(7.0)
Anterior wall	379	(24.8)
Oropharynx, NOS	59	(3.8)
Total	1530	(100)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	1	1
10 - 19	0	0	0
20 - 29	1	3	4
30 - 39	5	4	9
40 - 49	90	22	112
50 - 59	209	49	258
60 - 69	482	105	587
70 - 79	349	61	410
80 - 89	111	27	138
90 - 99	8	3	11
Total	1255	275	1530

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
Tis	29	0	0	0	0	0	0	0	0	29
T0	2	0	0	1	0	0	0	0	0	3
T1	125	32	0	20	67	7 (1)	3	0	0	254
T2	173 (1)	67 (1)	0	39	191 (4)	65 (5)	17	0	1	553
T3	62 (1)	27 (2)	1	3	69 (4)	46 (3)	8 (3)	0	0	216
T4	2	2	1	0	2	2	0	1	0	10
T4a	45 (1)	27	0	5	81 (1)	79 (6)	18 (3)	0	3 (1)	258
T4b	6	5	0	0	16 (3)	20 (3)	9 (1)	0	0	56
TX	1	0	1	3	3	1	1	9	0	19
T-	8	0	0	1	3 (1)	0	0	0	120	132
Total	453	160	3	72	432	220	56	10	124	1530

M1: 45 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Carcinoma of the Oropharynx ----- 1530 Cases

Histological Distribution by Subsite

Histologic type	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Acinar cell ca.	2	2	0	0	0	4
Adenocarcinoma, NOS	0	2	1	1	0	4
Adenoid cystic ca.	7	0	0	12	0	19
Adenosquamous ca.	0	0	0	2	0	2
Basal cell adenocarcinoma	0	0	0	1	0	1
Basaloid S.C.C.	0	6	0	0	0	6
Ca. expleomorphic adenoma	1	0	0	0	0	1
Ca., NOS	1	2	1	2	0	6
Ca., undiff., NOS	0	2	0	0	1	3
Clear cell ca.,NOS	0	0	0	1	0	1
Cystadenocarcinoma	0	0	0	1	0	1
Ewing sa.	0	0	0	1	0	1
Fibrosarcoma,NOS	0	0	0	1	0	1
Lymphoepithelial ca.	1	3	0	1	0	5
Malig. Lymphoma, NOS	1	14	0	3	0	18
Malig.malanoma,NOS	1	0	0	0	1	2
Mucoepidermoid ca.	2	4	0	6	0	12
Neoplasm, malig.	0	1	0	1	0	2
Papillary S.C.C.	0	3	0	0	0	3
Polymorphous low grade adenocarcinoma	1	0	0	0	0	1
Salivary duct ca.	1	0	0	0	0	1
Small cell ca., NOS	1	2	0	3	0	6
Spindle cell ca., NOS	0	3	0	0	0	3
S.C.C. in situ, NOS	10	11	9	7	2	39
S.C.C. in situ with quest. stromal invasion	0	1	0	0	0	1
S.C.C. kerat., NOS	7	28	5	11	1	52
S.C.C. large cell, nonkerat.	0	9	3	0	1	13
S.C.C. microinvasive	1	2	1	1	0	5
S.C.C., NOS	78	765	85	319	52	1299
S.C.C., small cell, nonkerat.	1	6	1	4	1	13
S.C.C. spindle cell	1	1	0	0	0	2
Verrucous ca., NOS	0	2	0	1	0	3
Total	117	869	106	379	59	1530

NOS: not otherwise specified.

Malig., malig.: malignant.

kerat. : keratinizing.

S.C.C.: squamous cell carcinoma.

quest.: questionable.

nonkerat.: nonkeratinizing.

ca., Ca.: carcinoma.

undiff.: undifferentiated.

Carcinoma of the Oropharynx ----- 1530 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
Without	34	486	54	217	27	818
With	70	307	46	127	15	565
Unknown	13	76	6	35	17	147
Radiotherapy						
Without	65	230	45	109	17	466
With	39	563	55	235	25	917
Unknown	13	76	6	35	17	147
Chemotherapy						
Without	76	300	55	147	15	593
With	28	493	45	197	27	790
Unknown	13	76	6	35	17	147
Total	117	869	106	379	59	1530

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
Without	77	528	86	232	30	953
With	26	265	14	112	12	429
Unknown	14	76	6	35	17	148
Radiotherapy						
Without	71	291	56	140	22	580
With	32	502	44	204	20	802
Unknown	14	76	6	35	17	148
Chemotherapy						
Without	79	344	66	169	21	679
With	24	449	34	175	21	703
Unknown	14	76	6	35	17	148
Total	117	869	106	379	59	1530

NOS: not otherwise specified.

Carcinoma of the Oropharynx ----- 1530 Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
No treatment	1	21	2	16	3	43
F) (Rad.+Chem.)	15	256	28	117	15	431
A) Surg. alone	60	161	36	80	8	345
B) Rad. alone	8	66	14	34	2	124
CF) Chem.->(Rad.+Chem.)	6	84	4	27	1	122
AB) Surg.->Rad.	6	43	3	16	2	70
AF) Surg.->(Rad.+Chem.)	0	43	3	13	3	62
C) Chem. alone	0	24	5	7	4	40
CB) Chem.->Rad.	1	18	0	7	0	26
CA) Chem.->Surg.	1	14	1	5	1	22
FA) (Rad.+Chem.)->Surg.	1	9	1	4	0	15
CAF) Chem.->Surg.->(Rad.+Chem.)	1	9	0	3	0	13
CAB) Chem.->Surg.->Rad.	0	7	0	4	1	12
FC) (Rad.+Chem.)->Chem.	0	6	0	2	0	8
AC) Surg.->Chem.	1	4	1	0	0	6
CCF) Chem.->Chem.->(Rad.+Chem.)	0	2	0	2	1	5
FAF) (Rad.+Chem.)->Surg.->(Rad.+Chem.)	0	2	1	1	0	4
Others	3	24	1	6	1	35
Unknown	13	76	6	35	17	147
Total	117	869	106	379	59	1530

NOS: not otherwise specified.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Oropharynx ----- 1530 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method		Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
X0)	No surgery	34	486	54	217	27	818
E3)	Unilateral resection of the lateral wall of the oropharynx	1	195	0	2	3	201
E9)	Resection of the oropharynx, other type	6	68	10	26	6	116
E1)	Resection of the base of tongue	0	0	0	65	0	65
E8)	Resection of the soft palate	38	6	0	0	0	44
E4)	Unilateral resection of the lateral wall of the oropharynx and soft	9	19	0	0	1	29
E6)	Resection of the posterior wall	0	0	28	0	0	28
F2)G2)	Transoral resection	1	4	5	3	0	13
E7)	Resection of the uvula	12	0	0	0	0	12
A6)	Total glossectomy	0	1	0	11	0	12
E5)	Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	1	6	0	1	0	8
F1)	Endoscop Endoscopic resection	1	0	2	2	1	6
E2)	Resection of the base of tongue and epiglottis	0	0	0	4	0	4
A5)	Subtotal glossectomy	0	0	0	3	0	3
	Others	1	8	1	10	4	24
	Unknown	13	76	6	35	17	147
Total		117	869	106	379	59	1530

NOS: not otherwise specified.

Carcinoma of the Oropharynx ----- 1530 Cases

Reconstructive Surgery by Subsite

Reconstructive surgery	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No reconstruction	90	707	93	288	39	1217
E) Free ALT flap	6	41	1	17	0	65
D) Free RA MC flap	1	20	0	23	1	45
C) Free FA flap	4	13	0	3	1	21
5) PM MC flap	0	3	0	8	0	11
B) Free jejunal flap	0	2	5	2	1	10
3) Mucosal flap	2	2	0	0	0	4
2) Local skin flap	0	2	0	1	0	3
Others	1	3	1	2	0	7
Unknown	13	76	6	35	17	147
Total	117	869	106	379	59	1530

NOS: not otherwise specified.
MC: musculocutaneous.

ALT: anterolateral thigh.
FA: forearm.

RA: rectus abdominis.
PM: pectoralis major.

Carcinoma of the Oropharynx ----- 1530 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	77	527	86	233	30	953
1) Total N.D.	8	88	4	42	2	144
2) Selective N.D.	17	170	7	67	7	268
3) Lymph node excision	0	2	0	1	0	3
8) Others	1	3	3	0	2	9
9) Unknown type	0	2	0	1	1	4
Unknown	14	77	6	35	17	149
Total	117	869	106	379	59	1530

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	94	762	93	298	37	1284
1) Total N.D.	2	5	1	14	1	23
2) Selective N.D.	6	21	3	30	1	61
3) Lymph node excision	0	0	0	1	0	1
8) Others	1	2	3	0	2	8
9) Unknown type	0	2	0	1	1	4
Unknown	14	77	6	35	17	149
Total	117	869	106	379	59	1530

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Oropharynx ----- 1530 Cases

Radiotherapy by Subsite

Type of radiotherapy	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No radiotherapy	63	214	45	104	17	443
1) X-ray (and/or electron beam)	39	561	54	229	24	907
2) Particle beam.	2	2	0	5	0	9
4) X-ray+Particle beam.	0	1	0	2	0	3
Others	0	0	0	0	0	0
Unknown type	0	14	1	4	1	20
Unknown	13	77	6	35	17	148
Total	117	869	106	379	59	1530

NOS: not otherwise specified.

B.T.: brachytherapy.

Chemotherapy by Subsite

Route of administration	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No chemotherapy	75	291	55	143	15	579
1) I.V.	24	428	36	173	20	681
3) Oral	3	26	5	8	3	45
5) I.V.+Oral	1	25	2	3	2	33
2) I.A.	0	3	1	9	0	13
4) I.V.+I.A.	0	0	0	1	0	1
7) I.V.+I.A.+Oral	0	1	0	0	0	1
Unknow route	1	20	1	6	2	30
Unknown	13	75	6	36	17	147
Total	117	869	106	379	59	1530

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Nasopharynx (2015)

287 Cases

Carcinoma of the Nasopharynx ----- 287 Cases

Subsite

Subsite	Number of patients (%)	
Posterior-superior wall	119	(41.5)
Lateral wall	123	(42.9)
Inferior wall	3	(1.0)
Nasopharynx, NOS	42	(14.6)
Total	287	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	6	2	8
20 - 29	7	3	10
30 - 39	7	4	11
40 - 49	18	8	26
50 - 59	43	17	60
60 - 69	72	20	92
70 - 79	34	19	53
80 - 89	19	7	26
90 - 99	0	1	1
Total	206	81	287

Carcinoma of the Nasopharynx ----- 287 Cases

Histological Distribution by Subsite

Histologic type	Postero- superior wall	Lateral wall	Inferior wall	Nasophar- ynx, NOS	Total
Adenocarcinoma,NOS	5	1	0	0	6
Adenoid cystic ca.	4	2	0	0	6
Basaloid S.C.C	0	1	0	0	1
Ca., NOS	6	13	0	3	22
Ca., undiff., NOS	6	8	0	3	17
Clear cell ca., NOS	0	1	0	0	1
Liposarcoma, NOS	0	1	0	0	1
Lymphoepithelial ca.	18	12	0	4	34
Malig. Lymphoma, NOS	1	1	0	2	4
Malig.melanoma	0	0	1	0	1
Mucoepidermoid ca.	0	2	0	0	2
Plasmacytoma, NOS	0	0	0	1	1
Spindle cell ca., NOS	0	1	0	0	1
S.C.C. in situ,NOS	0	2	0	0	2
S.C.C. kerat., NOS	3	1	0	1	5
S.C.C. large cell, nonkerat.	4	6	0	1	11
S.C.C., NOS	65	69	2	27	163
S.C.C., small cell, nonkerat.	7	2	0	0	9
Total	119	123	3	42	287

Adenoca., adenoca.: adenocarcinoma. NOS: not otherwise specified.
ca., Ca.: carcinoma. undiff.: undifferentiated. Malig.: malignant.
S.C.C.: squamous cell carcinoma. kerat. : keratinizing. nonkerat.: nonkeratinizing.

T and N Status

	N0	N1	N2	N3	N3a	N3b	NX	N-	Total
T0	0	0	1	0	0	0	0	0	1
T1	18	27	19	3	1	5	0	0	73
T2	14 (2)	14	24 (4)	0	0	6 (1)	0	0	58
T3	6	18 (1)	13	2	1	3	0	0	43
T4	14 (1)	21	22 (8)	0	1	8 (1)	0	0	66
T4a	1	0	0	0	0	0	0	0	1
TX	2	1	0	0	0	0	1	0	4
T-	0	1	1	0	1	0	0	38	41
Total	55	82	80	5	4	22	1	38	287

M1: 18 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: without reported N classification.

Carcinoma of the Nasopharynx ----- 287 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
Without	101	101	1	28	231
With	7	5	1	0	13
Unknown	11	17	1	14	43
Radiotherapy					
Without	8	8	1	5	22
With	100	98	1	23	222
Unknown	11	17	1	14	43
Chemotherapy					
Without	18	24	1	6	49
With	90	82	1	22	195
Unknown	11	17	1	14	43
Total	119	123	3	42	287

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
Without	106	104	2	26	238
With	2	2	0	2	6
Unknown	11	17	1	14	43
Radiotherapy					
Without	22	27	1	11	61
With	86	79	1	17	183
Unknown	11	17	1	14	43
Chemotherapy					
Without	27	36	1	10	74
With	81	70	1	18	170
Unknown	11	17	1	14	43
Total	119	123	3	42	287

NOS: not otherwise specified.

Carcinoma of the Nasopharynx ----- 287 Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
No treatment	3	1	0	4	8
F) (Rad.+Chem.)	67	50	1	13	131
B) Rad. alone	8	20	0	2	30
CF) Chem.->(Rad.+Chem.)	10	10	0	3	23
FC) (Rad.+Chem.)->Chem.	9	10	0	1	20
C) Chem. alone	0	5	0	1	6
A) Surg. alone	3	1	1	0	5
CFC) Chem.->(Rad.+Chem.)->Chem	2	0	0	2	4
Others	6	9	0	2	17
Unknown	11	17	1	14	43
Total	119	123	3	42	287

NOS: not otherwise specified.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Nasopharynx ----- 287 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
X0) No surgery	101	101	1	28	231
X9) Others	7	4	1	0	12
Unknown	11	18	1	14	44
Total	119	123	3	42	287

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstructive surgery	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No reconstruction	108	106	2	28	244
Unknown	11	17	1	14	43
Total	119	123	3	42	287

NOS: not otherwise specified.

ALT: anterolateral thigh.

Carcinoma of the Nasopharynx ----- 287 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	106	104	2	26	238
1) Total N.D.	0	0	0	1	1
2) Selective N.D.	2	2	0	1	5
9) Unknown	11	17	1	14	43
Total	119	123	3	42	287

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	108	106	2	28	244
9) Unknown	11	17	1	14	43
Total	119	123	3	42	287

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Nasopharynx ----- 287 Cases

Radiotherapy by Subsite

Type of radiotherapy	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No radiotherapy	8	8	1	5	22
1) X-ray (and/or electron beam)	97	90	1	21	209
2) Particle beam	0	2	0	0	2
4) X-ray + Particle beam	1	1	0	0	2
Unknown type	2	5	0	2	9
9) Unknown	11	17	1	14	43
Total	119	123	3	42	287

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No chemotherapy	18	24	1	6	49
1) I.V.	80	73	1	18	172
5) I.V.+ Oral	4	3	0	2	9
3) Oral	3	2	0	0	5
6) I.A.+ Oral	0	1	0	0	1
Unknown route	3	3	0	2	8
9) Unknown	11	17	1	14	43
Total	119	123	3	42	287

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Nasal Cavity and Paranasal Sinuses
(Excluding the Maxillary Sinus)
(2015)

338 Cases

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 338 Cases

Subsite

Subsite	Number of patients (%)	
Nasal cavity	189	(55.9)
Ethmoid sinus	77	(22.8)
Frontal sinus	8	(2.4)
Sphenoid sinus	13	(3.8)
Paranasal sinus, NOS	51	(15.1)
Total	338	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	2	0	2
20 - 29	4	0	4
30 - 39	10	7	17
40 - 49	34	15	49
50 - 59	26	10	36
60 - 69	56	37	93
70 - 79	53	38	91
80 - 89	24	17	41
90 - 99	2	3	5
100 - 109	0	0	0
Total	211	127	338

Nasal cavity and Paranasal Sinuses ----- 338 Cases

Histological Distribution by Subsite

Histologic type	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
Acinar cell ca.	1	0	0	0	0	1
Adenocarcinoma,NOS	6	0	0	2	1	9
Adenoid cystic ca.	12	1	0	2	1	16
Basaloid S.C.C.	2	0	0	0	0	2
Ca. expleomorphic adenoma	2	0	0	0	0	2
Ca.,NOS	6	4	0	0	0	10
Ca.,undiff.,NOS	3	6	0	0	2	11
Carcinosarcoma,NOS	1	1	0	0	0	2
Chondrosarcoma,NOS	2	0	0	0	0	2
Clear cell ca.,NOS	0	0	0	1	0	1
Fibrosarcoma,NOS	0	1	0	0	0	1
Glomangioperi cytoma	0	0	0	0	1	1
Hemangiopericytoma*	1	0	0	0	0	1
Hemangiosarcoma	1	0	0	1	0	2
Leiomyosarcoma,NOS	0	1	0	0	1	2
Malig. lymphoma,NOS	6	3	1	0	3	13
Malig. melanoma,NOS	38	6	0	0	14	58
Mucoepidermoid ca.	0	1	0	0	0	1
Neoplasm,malig.	3	0	0	0	0	3
Olfactory neuroblastoma	20	7	0	0	9	36
Papillary adenocarcinoma	1	0	0	0	0	1
Plasmacytoma,NOS	1	0	0	0	1	2
Rhabdomyosarcoma,NOS	3	3	0	0	0	6
Sebaceous ca.	1	0	0	0	0	1
Small cell ca.,NOS	2	8	0	1	1	12
Solitary fibrous tumor*, malig.	1	0	0	0	0	1
Spindle cell ca.,NOS	2	0	0	0	0	2
S.C.C. in situ.,NOS	2	0	0	0	0	2
S.C.C. kerat.,NOS	2	1	0	1	0	4
S.C.C. large cell,nonkerat.,NOS	2	1	0	0	0	3
S.C.C.,NOS	65	31	7	5	17	125
S.C.C.small cell,nonkerat.	0	2	0	0	0	2
Transitional cell ca.,NOS	2	0	0	0	0	2
Verrucous ca.,NOS	1	0	0	0	0	1
Total	189	77	8	13	51	338

NOS: not otherwise specified.
Malig. malig.: malignant.
nonkerat.: nonkeratinizing.

ca., Ca.: carcinoma.
S.C.C.: squamous cell carcinoma.
*: Solitary fibrous tumor/Hemangiopericytoma

undiff.: undifferentiated.
kerat.: keratinizing.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	2	0	0	0	0	0	0	0	0	2
T1	40	0	0	0	1	1	0	0	1	43
T2	28	1	0	0	0	1	0	0	0	30
T3	44 (1)	2	0	0	0	0	0	0	0	46
T4	7	1	0	0	1	0	0	0	0	9
T4a	43 (1)	1	0	0	4 (1)	0	1	0	0	49
T4b	60 (4)	7	0	0	9 (3)	5	0	0	0	81
TX	4	0	0	0	0	0	0	8	0	12
T-	11	1	0	0	0	0	0	4	50	66
Total	239	13	0	0	15	7	1	12	51	338

M1: 10 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: not within defined T classification or without reported T classification.

N-: not within defined N classification or without reported N classification.

Nasal cavity and Paranasal Sinuses ----- 338 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
Surgery						
Without	70	52	4	9	24	159
With	96	18	2	2	21	139
Unknown	23	7	2	2	6	40
Radiotherapy						
Without	64	13	1	3	15	96
With	102	57	5	8	30	202
Unknown	23	7	2	2	6	40
Chemotherapy						
Without	109	19	2	5	29	164
With	57	51	4	6	16	134
Unknown	23	7	2	2	6	40
Total	189	77	8	13	51	338

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
Surgery						
Without	148	65	5	11	39	268
With	17	5	1	0	6	29
Unknown	24	7	2	2	6	41
Radiotherapy						
Without	150	58	5	7	40	260
With	15	12	1	4	5	37
Unknown	24	7	2	2	6	41
Chemotherapy						
Without	152	56	5	8	40	261
With	13	14	1	3	5	36
Unknown	24	7	2	2	6	41
Total	189	77	8	13	51	338

NOS: not otherwise specified.

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 338 Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
No treatment	5	2	0	0	2	9
A) Surg. alone	44	5	0	2	9	60
B) Rad.alone	28	8	1	3	10	50
AB) Surg.->Rad.	30	3	1	0	8	42
F) (Rad.+Chem.)	14	18	1	2	5	40
C) Chem. alone	8	5	1	1	1	16
AF) Surg.->(Rad.+Chem.)	5	5	0	0	1	11
FC) (Rad.+Chem.)->Chem.	1	7	0	2	1	11
CF) Chem.->(Rad.+Chem.)	5	2	1	1	1	10
CB) Chem.->Rad.	3	4	0	0	1	8
AC) Surg.->Chem.	5	1	0	0	2	8
BC) Rad.->Chem.	2	2	0	0	0	4
FA) (Rad.+Chem.)->Surg.	3	0	0	0	1	4
CFC) Chem.->(Rad.+Chem.)->Chem.	1	3	0	0	0	4
Others	12	5	1	0	3	21
Unknown	23	7	2	2	6	40
Total	189	77	8	13	51	338

NOS: not otherwise specified.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 338 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
X0) No surgery	70	52	4	9	24	159
D1) Partial maxillectomy	11	1	0	0	2	14
D4) Skull base surgery	6	5	1	0	0	12
D9) Maxillectomy, other type	7	2	0	0	2	11
D2) Total maxillectomy	4	0	0	0	0	4
D3) Extended maxillectomy	1	1	0	0	0	2
F1) Endoscopic resection	0	0	0	0	2	2
X9) Others	67	9	1	2	15	94
Unknown	23	7	2	2	6	40
Total	189	77	8	13	51	338

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstructive surgery	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No reconstruction	151	64	5	11	39	270
D) Free RA MC flap	0	4	1	0	0	5
E) Free ALT flap	4	0	0	0	1	5
2) Local skin flap	2	0	0	0	1	3
3) Local mucosal flap	1	1	0	0	1	3
C) Free FA flap	1	0	0	0	1	2
G) Free fibular OC flap	2	0	0	0	0	2
1) Skin graft	1	0	0	0	0	1
8) Others	4	1	0	0	2	7
Unknown	23	7	2	2	6	40
Total	189	77	8	13	51	338

NOS: not otherwise specified.

MC: musculocutaneous.

FA: forearm.

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 338 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No N.D.	148	65	5	11	39	268
1) Total N.D.	2	2	0	0	1	5
2) Selective N.D.	11	2	1	0	3	17
8) Others	3	1	0	0	1	5
9) Unknown type	1	0	0	0	1	2
Unknown	24	7	2	2	6	41
Total	189	77	8	13	51	338

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No N.D.	155	68	6	11	43	283
1) Total N.D.	1	1	0	0	0	2
2) Selective N.D.	5	0	0	0	0	5
8) Others	3	1	0	0	1	5
9) Unknown type	1	0	0	0	1	2
Unknown	24	7	2	2	6	41
Total	189	77	8	13	51	338

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 338 Cases

Radiotherapy by Subsite

Type of radiotherapy	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No radiotherapy	64	13	1	3	15	96
1) X-ray (and/or electron beam)	80	49	5	7	21	162
2) Particle beam	19	4	0	1	8	32
4) X-ray+Particle beam	0	1	0	0	0	1
8) Others	1	0	0	0	0	1
Unknown source	2	3	0	0	1	6
9) Unknown	23	7	2	2	6	40
Total	189	77	8	13	51	338

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Nasal cavity (C11.3) (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No chemotherapy	109	19	2	5	29	164
1) I.V.	49	36	4	5	14	108
3) Oral	2	5	0	0	0	7
2) I.A.	1	5	0	0	0	6
5) I.V.+Oral	1	2	0	1	0	4
4) I.V.+I.A.	0	0	0	0	1	1
8) Others	1	0	0	0	0	1
Unknow route	2	3	0	0	1	6
9) Unknown	24	7	2	2	6	41
Total	189	77	8	13	51	338

NOS: not otherwise specified.

I.A.: intraarterial.

Maxillary Sinus (2015)

315 Cases

Carcinoma of the Maxillary Sinus ----- 315 Cases

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	1	0	1
30 - 39	7	2	9
40 - 49	17	4	21
50 - 59	33	10	43
60 - 69	93	18	111
70 - 79	69	29	98
80 - 89	14	14	28
90 - 99	3	1	4
Total	237	78	315

Histological Distribution

Histologic type	Number of patients (%)	
Acinar cell ca.	1	(0.3)
Adenocarcinoma, NOS	3	(1.0)
Adenoid cystic ca.	16	(5.1)
Basal cell ca.,NOS	1	(0.3)
Ca., NOS	6	(1.9)
Ca., undiff., NOS	3	(1.0)
Ca. expleomorphic adenoma	1	(0.3)
Carcinosarcoma,NOS	2	(0.6)
Leiomyosarcoma,NOS	1	(0.3)
Malig. fibrous histiocyoma*	1	(0.3)
Malig. lymphoma,NOS	5	(1.6)
Malig. Melanoma, NOS	10	(3.2)
Mucoepidermoid ca.	3	(1.0)
Neoplasm,malig.	1	(0.3)
Neuroendocrine ca.,NOS	1	(0.3)
Olfactory neuroblastoma	1	(0.3)
Osteosarcoma,NOS	1	(0.3)
Plasmacytoma,NOS	1	(0.3)
Rhabdomyosarcoma,NOS	1	(0.3)
Salivary duct ca.	1	(0.3)
Small cell ca., NOS	3	(1.0)
Spindle cell ca., NOS	7	(2.2)
S.C.C. kerat., NOS	2	(0.6)
S.C.C. large cell, nonkerat.	4	(1.3)
S.C.C., NOS	237	(75.2)
S.C.C. small cell, nonkerat.	1	(0.3)
S.C.C., spindle cell	1	(0.3)
Total	315	(100.0)

NOS: not otherwise specified.
undiff.: undifferentiated.
S.C.C.: squamous cell carcinoma.
nonkerat.: nonkeratinizing.

ca., Ca.: carcinoma.
Malig., malig.: malignant.
kerat :keratinaizing.
*: Undifferentiated plemomorphic sarcoma.

Carcinoma of the Maxillary Sinus ----- 315 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	5	0	0	0	0	0	0	0	0	5
T2	10	1	0	0	0	0	0	0	0	11
T3	67 (1)	4	0	0	7	2 (1)	0	0	0	80
T4	3	1	0	0	0	0	0	0	0	4
T4a	109 (9)	6 (1)	0	0	15 (2)	6	0	1	1	138
T4b	29 (1)	5	0	0	9	4	1	0	0	48
TX	0	0	0	0	0	0	0	0	0	0
T-	1 (1)	0	0	0	0	0	0	0	28	29
Total	224	17	0	0	31	12	1	1	29	315

M1: 16 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: without reported N classification.

Treatment Method for the Primary Lesion

Treatment method	Number of patients (%)	
Surgery	Without	155 (49.2)
	With	124 (39.4)
	Unknown	36 (11.4)
Radiotherapy	Without	62 (19.7)
	With	217 (68.9)
	Unknown	36 (11.4)
Chemotherapy	Without	88 (27.9)
	With	191 (60.7)
	Unknown	36 (11.4)
Total	315 (100.0)	

Treatment Method for the Cervical Lymph Nodes

Treatment method	Number of patients (%)	
Surgery	Without	220 (69.8)
	With	59 (18.7)
	Unknown	36 (11.4)
Radiotherapy	Without	197 (62.5)
	With	82 (26.0)
	Unknown	36 (11.4)
Chemotherapy	Without	202 (64.2)
	With	77 (24.4)
	Unknown	36 (11.4)
Total	315 (100.0)	

Carcinoma of the Maxillary Sinus ----- 315 Cases

Sequence of Treatment Methods for the Primary Lesion

Sequence of treatment methods	Number of patients (%)
No treatment	7 (2.2)
F) (Rad.+Chem.)	95 (30.0)
A) Surg. alone	33 (10.5)
B) Rad. alone	23 (7.3)
FA) (Rad.+Chem.) -> Surg.	21 (6.7)
AB) Surg. -> Rad.	19 (6.0)
AF) Surg. -> (Rad.+Chem.)	14 (4.4)
C) Chem.	11 (3.5)
CF) Chem.-> (Rad.+Chem.)	8 (2.5)
CA) Chem.-> Surg.	5 (1.6)
CAB) Chem.-> Surg.->Rad.	5 (1.6)
CAF) Chem.-> Surg.->(Rad.+Chem.)	4 (1.3)
FC) (Rad.+Chem.)->Chem.	4 (1.3)
ABC) Surg. -> Rad.->Chem.	3 (1.0)
CFA) Chem.-> (Rad.+Chem.)->Surg.	3 (1.0)
CB) Chem.->Rad.	2 (0.7)
AC) Surg.->Chem.	2 (0.7)
Others	20 (6.3)
Unknown	36 (11.4)
Total	315 (100.0)

Rad.: radiotherapy. Chem.: chemotherapy. Surg.: surgery.
Treatment methods in parentheses were given concurrently.

Surgical Method for the Primary Lesion

Surgical method	Number of patients (%)
0) No surgery	155 (49.3)
D2) Total maxillectomy	52 (16.5)
D1) Partial maxillectomy	28 (8.9)
D3) Extended total maxillectomy	25 (7.9)
D9) Maxillectomy, other type	11 (3.5)
D4) Extended total maxillectomy with skullbase surgery	2 (0.6)
B2) Segmental mandibulectomy	2 (0.6)
X9) Others	4 (1.3)
Unknown	36 (11.4)
Total	315 (100.0)

Carcinoma of the Maxillary Sinus ----- 315 Cases

Neck Dissection on the Ipsilateral Side

Neck dissection	Number of patients (%)
0) No N.D.	219 (65.7)
1) Total N.D.	13 (3.8)
2) Selective N.D.	41 (13.0)
3) Lymph node excision	1 (0.4)
8) Others	3 (0.9)
9) Unknown	38 (16.2)
Total	315 (100.0)

N.D.: neck dissection.

Neck Dissection on the Contralateral Side

Neck dissection	Number of patients (%)
0) No N.D.	268 (85.1)
1) Total N.D.	2 (0.6)
2) Selective N.D.	6 (1.9)
8) Others	1 (0.3)
9) Unknown	38 (12.1)
Total	315 (100.0)

N.D.: neck dissection.

Reconstructive Surgery

Reconstructive surgery	Number of patients (%)
0) No reconstruction	213 (67.6)
D) Free RA MC flap	38 (12.1)
1) Skin graft	2 (0.6)
G) Free fibular OC flap	6 (1.9)
2) Local skin flap	1 (0.3)
C) Free FA flap	5 (1.6)
E) Free ALT flap	9 (2.9)
F) Free scapular OC flap	1 (0.3)
8) Others	5 (1.6)
Unknown	35 (11.1)
Total	315 (100.0)

RA: rectus abdominis.

OC: osteocutaneous.

FA: forearm.

MC: musculocutaneous.

LD: Lattismus dorsi.

Carcinoma of the Maxillary Sinus ----- 315 Cases

Radiotherapy

Type of radiotherapy	Number of patients (%)	
0) No radiotherapy	60	(19.0)
1) X-ray (and/or electron beam)	209	(66.3)
3) Particle beam	6	(1.9)
4) X-ray+particle beam	1	(0.3)
Unknown type	3	(1.1)
9) Unknown	36	(11.4)
Total	315	(100.0)

Chemotherapy

Route of administration	Number of patients (%)	
0) No chemotherapy	88	(27.9)
1) I.V.	71	(22.5)
2) I.A.	90	(28.7)
4) I.V.+ I.A.	11	(3.5)
3) Oral	10	(3.2)
5) I.V.+ Oral	2	(0.6)
6) I.A. + Oral	1	(0.3)
Unknown route	6	(1.9)
9) Unknown	36	(11.4)
Total	315	(100.0)

I.A.: intraarterial.

I.V.: intravenous.

Major Salivary Glands (2015)

529 Cases

Carcinoma of the Major Salivary Glands ----- 529 Cases

Primary site

Site	Number of patients (%)	
Parotid gland	374	(70.7)
Submandibular gland	125	(23.6)
Sublingual gland	26	(4.9)
Major salivary gland, NOS	4	(0.8)
Total	529	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	5	3	8
20 - 29	6	11	17
30 - 39	19	15	34
40 - 49	30	31	61
50 - 59	46	35	81
60 - 69	94	50	144
70 - 79	67	43	110
80 - 89	41	29	70
90 - 99	2	2	4
Total	310	219	529

Carcinoma of the Major Salivary Glands ----- 529cases

Parotid Gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	5	2	7
20 - 29	5	9	14
30 - 39	18	11	29
40 - 49	21	25	46
50 - 59	33	24	57
60 - 69	57	31	88
70 - 79	52	32	84
80 - 89	26	19	45
90 - 99	2	2	4
Total	219	155	374

Submandibular Gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	1	1	2
30 - 39	1	4	5
40 - 49	7	3	10
50 - 59	9	7	16
60 - 69	29	17	46
70 - 79	14	10	24
80 - 89	12	9	21
90 - 99	0	0	0
Total	73	52	125

Carcinoma of the Major Salivary Glands ----- 564 Cases

Sublingual Gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	1	1
30 - 39	0	0	0
40 - 49	1	3	4
50 - 59	4	4	8
60 - 69	6	2	8
70 - 79	1	1	2
80 - 89	2	1	3
90 - 99	0	0	0
Total	14	12	26

Major Salivary Gland, NOS

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	0	0	0
60 - 69	2	0	2
70 - 79	0	0	0
80 - 89	1	0	1
90 - 99	0	0	0
Total	4	0	4

Carcinoma of the Major Salivary Glands ----- 529 Cases

Histological Distribution by Primary Site

Histologic type	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Acinar cell ca.	24	2	0	0	26
Adenocarcinoma, NOS	32	9	0	0	41
Adenoid cystic ca.	32	42	18	1	93
Adenosquamous ca.	1	0	0	0	1
Basal cell adenocarcinoma	6	2	0	0	8
Basal cell ca., NOS	1	0	0	0	1
Ca. ex pleomorphic adenoma	36	13	0	1	50
Ca., NOS	10	4	0	0	14
Ca., undiff., NOS	3	0	0	0	3
Carcinosarcoma, NOS	2	1	0	0	3
Clear cell ca., NOS	0	0	1	0	1
Epithelial-myoepithelial ca.	15	1	0	0	16
Hemangiosarcoma	1	0	0	0	1
Large cell ca., NOS	1	0	0	0	1
Leiomyosarcoma, NOS	0	0	0	1	1
Low-grade cribriform cystadenocarcinoma	1	0	0	0	1
Lymphoepithelial ca.	4	0	1	0	5
Malig. fibrous histiocytoma*	0	1	0	0	1
Malig. Lymphoma, NOS	12	5	0	0	17
Mammary analogue secretory ca.	1	0	0	0	1
Mucoepidermoid ca.	65	8	2	0	75
Myoepithelial ca.	11	2	0	0	13
Neoplasm, malig.	6	1	0	0	7
Oncocytic ca.	1	1	0	0	2
Polymorphous low grade aden	1	0	0	0	1
Salivary duct ca.	60	24	1	0	85
Small cell ca., NOS	1	0	0	0	1
S.C.C. kerat., NOS	0	0	1	0	1
S.C.C., NOS	47	9	2	1	59
Total	374	125	26	4	529

ca., Ca.: carcinoma.

Malig., malig.: malignant.

*: Undifferentiated plemomorphic sa.

NOS: not otherwise specified.

sa.:sarcoma.

undiff: undifferentiated

S.C.C.: squamous cell carcinoma.

Carcinoma of the Major Salivary Glands ----- 529 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	1
T1	58	0	0	0	7	0	1	1	0	67
T2	114 (1)	8	0	2 (1)	26 (7)	4 (3)	0	2	0	156
T3	54 (5)	10 (1)	0	0	30 (7)	0	1	0	0	95
T4	2 (1)	0	0	0	1	0	0	0	0	3
T4a	47 (2)	11	1 (1)	0	37 (4)	4 (3)	0	0	0	100
T4b	8 (4)	1 (1)	0	0	3	0	0	0	0	12
TX	2	0	0	0	2	0	0	10	1	15
T-	2	0	0	0	0	0	0	0	78	80
Total	288	30	1	2	106	8	2	13	79	529

M1: 41 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: without reported N classification.

Parotid Gland

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	1
T1	33	0	0	0	5	0	1	1	0	40
T2	84 (1)	4	0	0	17 (4)	1 (1)	0	1	0	107
T3	34 (1)	7	0	0	18 (3)	0	0	0	0	59
T4	2 (1)	0	0	0	1	0	0	0	0	3
T4a	40 (2)	9	1 (1)	0	30 (2)	2 (1)	0	0	0	82
T4b	4 (2)	1 (1)	0	0	3	0	0	0	0	8
TX	2	0	0	0	0	0	0	9	1	12
T-	1	0	0	0	0	0	0	0	61	62
Total	201	21	1	0	74	3	1	11	62	374

M1: 20 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: without reported N classification.

Carcinoma of the Major Salivary Glands ----- 529 Cases

Submandibular Gland

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
T1	22	0	0	0	1	0	0	0	0	23
T2	20	4	0	2 (1)	7 (3)	2 (2)	0	1	0	36
T3	17 (3)	3 (1)	0	0	12 (4)	0	1	0	0	33
T4	0	0	0	0	0	0	0	0	0	0
T4a	5	2	0	0	6 (2)	2 (2)	0	0	0	15
T4b	2 (1)	0	0	0	0	0	0	0	0	2
TX	0	0	0	0	2	0	0	1	0	3
T-	1	0	0	0	0	0	0	0	12	13
Total	67	9	0	2	28	4	1	2	12	125

M1: 19 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: without reported N classification.

Sublingual Gland

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
T1	3	0	0	0	1	0	0	0	0	4
T2	9	0	0	0	2	1	0	0	0	12
T3	2 (1)	0	0	0	0	0	0	0	0	2
T4	0	0	0	0	0	0	0	0	0	0
T4a	1	0	0	0	1	0	0	0	0	2
T4b	2 (1)	0	0	0	0	0	0	0	0	2
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	4	4
Total	17	0	0	0	4	1	0	0	4	26

M1: 2 cases. Number in parentheses indicate numbers of M1 cases

T-: not within defined T classification or without reported T classification.

N-: without reported N classification.

Major salivary gland, NOS

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0	0	0	0
T2	1	0	0	0	0	0	0	0	0	1
T3	1	0	0	0	0	0	0	0	0	1
T4	0	0	0	0	0	0	0	0	0	0
T4a	1	0	0	0	0	0	0	0	0	1
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	1	1
Total	3	0	0	0	0	0	0	0	1	4

M1: 0 case.

T-: not within defined T classification or without reported T classification.

N-: without reported N classification.

Carcinoma of the Major Salivary Glands ----- 529 Cases

Treatment Method for the Primary Lesion by Primary Site

Treatment method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Surgery					
Without	37	11	4	0	52
With	279	98	19	3	399
Unknown	58	16	3	1	78
Radiotherapy					
Without	173	49	14	2	238
With	143	60	9	1	213
Unknown	58	16	3	1	78
Chemotherapy					
Without	262	84	17	2	365
With	54	25	6	1	86
Unknown	58	16	3	1	78
Total	374	125	26	4	529

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Primary Site

Treatment method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Surgery					
Without	138	26	8	1	173
With	174	83	13	2	272
Unknown	62	16	5	1	84
Radiotherapy					
Without	217	59	16	3	295
With	95	50	5	0	150
Unknown	62	16	5	1	84
Chemotherapy					
Without	272	86	17	3	378
With	40	23	4	0	67
Unknown	62	16	5	1	84
Total	374	125	26	4	529

NOS: not otherwise specified.

Carcinoma of the Major Salivary Glands ----- 529 Cases

Sequence of Treatment Methods for the Primary Site

Sequence of treatment methods	Parotid gland (C07.9)	Submandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
No treatment	8	0	0	0	8
A) Surg. alone	150	44	10	2	206
AB) Surg.->Rad.	86	32	6	0	124
AF) Surg.->(Rad.+Chem.)	23	10	1	1	35
B) Rad. alone	11	4	1	0	16
C) Chem. alone	7	5	2	0	14
F) Rad.+Chem.	5	2	0	0	7
AFC) Surg.->(Rad.+Chem.)->Chem.	4	1	0	0	5
AC) Surg.->Chem.	4	0	0	0	4
ABC) Surg.->Rad.->Chem.	2	2	0	0	4
CA) Chem.->Surg.	1	0	2	0	3
AAB) Surg.->Surg.->Rad.	1	2	0	0	3
D) Surg.+Rad.	2	1	0	0	3
G) Surg.+Rad.+Chem.	1	2	0	0	3
Others	11	4	1	0	16
Unknown	58	16	3	1	78
Total	374	125	26	4	529

NOS: not otherwise specified.

Carcinoma of the Major Salivary Glands ----- 529 Cases

Surgical Method for the Primary Site

Surgical method	Parotid gland (C07.9)	Submandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
X0) No surgery	37	11	4	0	52
H4) Total parotidectomy	97	0	0	0	97
H6) Submandibulectomy	0	91	0	0	91
H2) Superficial parotidectomy	91	0	0	0	91
H5) Extended total parotidectomy	50	0	0	0	50
H1) Partial parotidectomy	20	0	0	0	20
H3) Deep lobe resection of the parotid gland	15	0	0	0	15
H7) Resection of the sublingual gland	0	0	13	1	14
H9) Paroticectomy,NOS	4	1	0	2	7
Others	2	6	6	0	14
Unknown	58	16	3	1	78
Total	374	125	26	4	529

NOS: not otherwise specified.

Carcinoma of the Major Salivary Glands ----- 529 Cases

Reconstructive Surgery by Primary Site

Reconstructive surgery	Parotid gland (C07.9)	Submandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No reconstruction	232	102	16	2	352
I) Nerve graft	33	0	0	0	33
E) Free ALT flap	20	1	2	1	24
D) Free RA MC flap	13	3	1	0	17
2) Local skin flap	5	0	0	0	5
C) Free FA flap	1	1	3	0	5
5) PM MC flap	4	0	0	0	4
H) Vascularized nerve graft (I+H)	2	0	0	0	2
F) Free scapular OC flap	0	1	1	0	2
4) DP flap	0	1	0	0	1
1) Skin graft	1	0	0	0	1
8) Others	5	0	0	0	5
Unknown	58	16	3	1	78
Total	374	125	26	4	529

NOS: not otherwise specified.
MC: musculocutaneous.
FA: forearm.

ALT: anterolateral thigh.
PM: pectoralis major.
OC: osteocutaneous.

RA: rectus abdominis.
DP: deltopectral

Carcinoma of the Major Salivary Glands ----- 529 Cases

Neck Dissection on the Ipsilateral Side by Primary Site

Neck dissection	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No N.D.	137	26	8	1	172
1) Total N.D.	52	21	2	0	75
2) Selective N.D.	108	61	11	2	182
3) Lymph node excision	8	0	0	0	8
8) Others	2	0	0	0	2
Unknown dissection	0	1	0	0	1
9) Unknown	67	16	5	1	89
Total	374	125	26	4	529

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Primary Site

Neck dissection	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No N.D.	298	101	18	3	420
1) Total N.D.	1	1	0	0	2
2) Selective N.D.	4	7	3	0	14
3) Lymph node excision	3	0	0	0	3
8) Others	1	0	0	0	1
9) Unknown	67	16	5	1	89
Total	374	125	26	4	529

N.D.: neck dissection.

Carcinoma of the Major Salivary Glands ----- 529 Cases

Radiotherapy by Primary Site

Type of radiotherapy	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No radiotherapy	172	47	14	2	235
1) X-ray (and/or electron beam)	129	62	9	1	201
2) Particle beam	11	0	0	0	11
4) X-ray + Particle beam	1	0	0	0	1
Unknown type	2	0	0	0	2
9) Unknown	59	16	3	1	79
Total	374	125	26	4	529

NOS: not otherwise specified

Chemotherapy by Primary Site

Route of administration	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No chemotherapy	262	84	17	2	365
1) I.V.	41	17	3	0	61
2) I.A.	2	1	0	0	3
3) Oral	6	6	3	1	16
5) I.V.+Oral	2	1	0	0	3
Unknown route	3	0	0	0	3
9) Unknown	58	16	3	1	78
Total	374	125	26	4	529

NOS: not otherwise specified.

I.V.: intravenous.