

Report of Head and Neck Cancer Registry of Japan
Clinical Statistics of Registered Patients, 2014

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. Through the support of many institutions and the Japanese Society of Oral and Maxillofacial Surgeons, 3,219 treated cases in 2003 were registered in 2005.

Because the Act of the Protection of Personal Information (APPI) was enforced in 2005, JSHNC has decided to discontinue the registration of patients treated in 2004 and thereafter. After taking measures during a seven-year interval in accordance with the APPI, the JSHNC resumed the registry using the system of University hospital Medical Information Network (UMIN) Center in Japan. The online registration was initiated on May 25, 2012 after renewing the contents and methods of registration.

This supplement is for the fourth year report of the registration after the renewal. The importance of cancer registration has been recognized widely in Japan since the Act of Propulsion of Cancer Registration in 2013. And the number of participating institutions has been increasing 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. As a result, the number of cases has been the largest for 2014. This vast organ-based registry led by doctors would contribute to the more detailed understanding of the statistics and modes of treatment of head and neck cancer, besides the hospital-based or population-based cancer registry in Japan. The data collection will be expanded to include information on the prognosis and the data center and secretariat will be introduced to this registration system from 2017. The further development of this registry will be expected after the expansion of those data and organization are established.

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.

March 27, 2017

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

Cancer Registry Committee 2015,
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. More than one who expressed their cooperation in an institution could be a participant of 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 registered data of the cases in his institute to the INDICE system on line. The completed registration provides information regarding patients' age, gender, tumor pathology, TNM classification, therapies (surgery, radiation and chemotherapy), and prognosis. In this year, the third year of resumption, all the data stored in the INDICE system were reviewed by head and neck oncologists and analyzed from all aspects, except on the prognosis.

Registration was restricted to previously untreated malignant head and neck tumor cases which had pathological confirmation, 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).

The starting date of the initial therapy for 2014 cases was during the period from Jan. 1 to Dec. 31, 2014. A total of 10,161 cases were registered by 158 institutions from Feb. 20, 2014 to Nov. 25, 2015. Data correction by each institution is allowed only once by the system and the data, registered before Nov. 25, 2015, were checked and corrected after confirming with each institution, whereas, any date correction after the date by themselves were not verified. Six hundred and thirty six cases were excluded (because of the unknown presentation of diseases, unknown aim for therapies, previously treated cases, without reported pathology), making the total number of registered patients at 9,524.

List of 159 Institutions which participate in the Registry in 2014

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

List of 159 Institutions which participate in the Registry in 2014

30. Department of Head and Neck Surgery, Saitama Cancer Center
31. Department of Head and Neck Surgery, Saitama Medical University International Medical Center
32. Department of Otorhinolaryngology, National Defense Medical College Hospital
33. Department of Otorhinolaryngology, Chiba University Hospital
34. Division of Head and Neck Surgery, National Cancer Center Hospital East
35. Department of Otorhinolaryngology, Kameda Medical Center
36. Department of Otorhinolaryngology, Teikyo University Hospital
37. Division of Head and Neck Surgery, Nerima Hikarigaoka Hospital
38. Department of Oral Surgery, Tokyo Metropolitan Ohtsuka Hospital
39. Department of Otorhinolaryngology, Tokyo Metropolitan Cancer and Infectious Disease Center Komagome Hospital
40. Department of Otorhinolaryngology, Keio University Hospital
41. Department of Otorhinolaryngology, Nippon Medical School Hospital
42. Department of Otorhinolaryngology, The University of Tokyo Hospital
43. Department of Otorhinolaryngology, Juntendo University Hospital
44. Department of Maxillofacial Surgery, Faculty of Dentistry, Tokyo Medical and Dental University Hospital
45. Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Tokyo Medical and Dental University Hospital
46. Department of Otorhinolaryngology, Head and Neck Surgery, Faculty of Medicine, Tokyo Medical and Dental University Hospital
47. Department of Oral Surgery, Nippon Dental University Hospital
48. Department of Otorhinolaryngology, Tokyo Medical University Hospital
49. Department of Head and Neck Surgery, National Cancer Center Hospital
50. Department of Head and Neck Surgery, Cancer Institute Hospital
51. Department of Otorhinolaryngology, Jikei University Hospital
52. Head and Neck Oncology Center, International University of Health and Welfare Mita Hospital
53. Department of Otorhinolaryngology and Oral Surgery, Tokyo Medical Center

List of 159 Institutions which participate in the Registry in 2014

54. Department of Otorhinolaryngology, Showa University Hospital
55. Department of Otorhinolaryngology, NTT Medical Center Tokyo
56. Department of Otorhinolaryngology, Kyorin University Hospital
57. Department of Dentistry and Oral Surgery, Tokyo Metropolitan Tama Medical Center
58. Department of Otorhinolaryngology, Tokyo Metropolitan Tama Medical Center
59. Department of Otorhinolaryngology, Jikei University Daisan Hospital
60. Department of Otorhinolaryngology, Tokyo Medical University, Hachioji Medical Center
61. Department of Otorhinolaryngology, St. Marianna University School of Medicine Hospital
62. Department of Oral and Maxillofacial Surgery, Tsurumi University Dental Hospital
63. Department of Dentistry and Oral Surgery, Yokohama City University Hospital
64. Department of Otorhinolaryngology, Yokohama City University Hospital
65. Department of Otorhinolaryngology, Yokohama City University Medical Center
66. Department of Head and Neck Surgery, Kanagawa Cancer Center
67. Department of Otorhinolaryngology, Kitasato University Hospital
68. Department of Otorhinolaryngology, Tokai University Hospital
69. Department of Otorhinolaryngology, Yokosuka Kyosai Hospital
70. Department of Otorhinolaryngology, Yamanashi University Hospital
71. Department of Otorhinolaryngology and Oral surgery, Yamanashi Prefectural Central Hospital
72. Department of Otorhinolaryngology, Niigata University Medical and Dental Hospital
73. Department of Oral Reconstructive Surgery, Niigata University Medical and Dental Hospital
74. Department of Head and Neck Surgery, Niigata Cancer Center
75. Department of Otorhinolaryngology, Niigata City General Hospital
76. Department of Otorhinolaryngology, Japanese Red Cross Nagaoka Hospital
77. Department of Otorhinolaryngology, Shinshu University Hospital
78. Department of Dentistry and Oral Surgery, Kouseiren Takaoka Hospital

List of 159 Institutions which participate in the Registry in 2014

79. Department of Otorhinolaryngology, Kanazawa University Hospital
80. Department of Otorhinolaryngology, Kanazawa Medical University Hospital
81. Department of Otorhinolaryngology, University of Fukui Hospital
82. Department of Head and Neck Surgery, Shizuoka Cancer Center
83. Department of Otorhinolaryngology, Japanese Red Cross Shizuoka Hospital
84. Department of Otorhinolaryngology, Hamamatsu University Hospital
85. Department of Otorhinolaryngology, Seirei Hamamatsu General Hospital
86. Department of Otorhinolaryngology, Toyohashi Municipal Hospital
87. Department of Otorhinolaryngology, Fujita Health University Hospital
88. Department of Head and Neck Surgery, Aichi Cancer Center
89. Department of Otorhinolaryngology, Japanese Red Cross Nagoya Daiichi Hospital
90. Department of Otorhinolaryngology, Nagoya University Hospital
91. Department of Otorhinolaryngology, Gifu University Hospital
92. Department of Otorhinolaryngology, Ogaki Municipal Hospital
93. Department of Otorhinolaryngology, Mie University Hospital
94. Department of Otorhinolaryngology, Ise Red Cross Hospital
95. Department of Head and Neck Surgery, Kusatsu General Hospital
96. Department of Otorhinolaryngology, Shiga University of Medical Science Hospital
97. Department of Otorhinolaryngology, Kyoto University Hospital
98. Department of Otorhinolaryngology, Kyoto Prefectural University Hospital
99. Department of Otorhinolaryngology, Kyoto Medical Center
100. Department of Otorhinolaryngology, Japanese Red Cross Kyoto Daiichi Hospital
101. Department of Otorhinolaryngology and Oral Surgery, Nara Medical University
Hospital
102. Department of Otorhinolaryngology, Kinki University Nara Hospital
103. Department of Otorhinolaryngology, Tenri Hospital
104. Department of Oral Surgery, Osaka Dental University Hospital
105. Department of Otorhinolaryngology, Osaka Medical College Hospital
106. Department of Otorhinolaryngology, Osaka Center for Cancer and Cardiovascular
Disease

List of 159 Institutions which participate in the Registry in 2014

107. Department of Otorhinolaryngology, Japanese Red Cross Osaka Hospital
108. Department of Otorhinolaryngology, Osaka City University Hospital
109. Department of Otorhinolaryngology, Osaka City General Hospital
110. Department of Otorhinolaryngology, Osaka General Medical Center
111. Department of Otorhinolaryngology, Osaka University Hospital
112. Department of Otorhinolaryngology, Osaka Saiseikai Nakatsu Hospital
113. Department of Otorhinolaryngology, Osaka Rosai Hospital
114. Department of Otorhinolaryngology, Kansai Medical University Takii Hospital
115. Department of Oral and Maxillofacial Surgery, Kinki University Hospital
116. Department of Otorhinolaryngology, Kishiwada City Hospital
117. Department of Otorhinolaryngology, Kansai Rosai Hospital
118. Department of Oral Surgery and Otorhinolaryngology, Wakayama Medical
University Hospital
119. Department of Otorhinolaryngology, Japanese Red Cross Wakayama Medical
Center
120. Department of Otorhinolaryngology, Kobe University Hospital
121. Department of Otorhinolaryngology, Kobe City Medical Center General Hospital
122. Department of Otorhinolaryngology, Hyogo College of Medicine Hospital
123. Department of Head and Neck Surgery, Hyogo Cancer Center
124. Department of Otorhinolaryngology, Tottori University Hospital
125. Department of Otorhinolaryngology, Okayama University Hospital
126. Department of Otorhinolaryngology, Kurashiki Central Hospital
127. Department of Otorhinolaryngology, Kawasaki Medical School Hospital
128. Department of Otorhinolaryngology, Kure Medical Center and Chugoku Cancer
Center
129. Department of Otorhinolaryngology, Fukuyama City Hospital
130. Department of Otorhinolaryngology, Hiroshima University Hospital
131. Department of Otorhinolaryngology, Miyoshi Central Hospital
132. Department of Otorhinolaryngology, Hiroshima Red Cross Hospital & Atomic-
bomb Survivors Hospital

List of 159 Institutions which participate in the Registry in 2014

133. Department of Otorhinolaryngology, Kagawa Prefectural Central Hospital
134. Department of Otorhinolaryngology, Kagawa University Hospital
135. Department of Otorhinolaryngology, Tokushima Municipal Hospital
136. Department of Head and Neck Surgery, Shikoku Cancer Center
137. Department of Otorhinolaryngology, Ehime Prefectural Central Hospital
138. Department of Otorhinolaryngology, Kochi Health Sciences Center
139. Department of Otorhinolaryngology, Kochi Medical School Hospital
140. Department of Otorhinolaryngology, University of Occupational and
Environmental Health Hospital
141. Department of Otorhinolaryngology, Kyushu University Hospital
142. Department of Oral and Maxillofacial Surgery, Kyushu University Hospital
143. Department of Head and Neck Surgery, Kyushu Cancer Center
144. Department of Otorhinolaryngology, Fukuoka University Hospital
145. Department of Otorhinolaryngology, Oita University Hospital
146. Department of Otorhinolaryngology, Kyushu Medical Center
147. Department of Otorhinolaryngology, JCHO Kyushu Hospital
148. Department of Otorhinolaryngology, Kurume University Hospital
149. Department of Otorhinolaryngology, Saga University Hospital
150. Department of Otorhinolaryngology, Ureshino Medical Center
151. Department of Otorhinolaryngology, Sasebo City General Hospital
152. Department of Otorhinolaryngology, Nagasaki Medical Center
153. Department of Otorhinolaryngology, Nagasaki University Hospital
154. Department of Otorhinolaryngology, Kumamoto University Hospital
155. Department of Otorhinolaryngology, Kagoshima City Hospital
156. Department of Otorhinolaryngology, Kagoshima University Medical and Dental
Hospital
157. Department of Otorhinolaryngology, Kagoshima Medical Center
158. Department of Otorhinolaryngology, Ryukyu University Hospital
159. Department of Otorhinolaryngology, Okinawa Prefectural Chubu Hospital

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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 (2014)

9524 Cases

Head and Neck Cancer ——— 9524 Cases

Primary Site

Site	Number of patients (%)	
1) Oral cavity	2505	(26.3)
2) Larynx	2029	(21.3)
3) Hypopharynx	1902	(20.0)
4) Oropharynx	1569	(16.5)
5) Nasopharynx	282	(3.0)
6) Nasal cavity, etc	320	(3.4)
7) Maxillary sinus	352	(3.7)
8) Major salivary glands	565	(5.9)
Total	9524	(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	0	0
10 - 19	10	7	17
20 - 29	37	39	76
30 - 39	124	82	206
40 - 49	417	152	569
50 - 59	1080	288	1368
60 - 69	2683	522	3205
70 - 79	2441	498	2939
80 - 89	761	281	1042
90 - 99	56	45	101
100 - 109	1	0	1
Total	7610	1914	9524

Head and Neck Cancer ——— 9524 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.	1	0	0	1	0	1	0	39	42
Adenocarcinoma, NOS	3	0	3	7	0	16	2	57	88
Adenoid cystic ca.	28	2	1	23	3	22	18	84	181
Adenosquamous ca.	5	0	4	2	0	2	1	1	15
Basal cell adenocarcinoma	0	0	0	1	0	3	0	10	14
Basal cell ca., NOS	1	0	0	0	0	0	0	5	6
Basaloid S.C.C.	2	1	10	3	1	1	4	1	23
Carcinoid tumor, NOS	0	1	0	2	0	1	0	0	4
Ca. ex pleomorphic adenoma	3	0	0	1	0	0	0	47	51
Ca., NOS	12	5	7	4	11	7	8	21	75
Ca., undiff., NOS	2	1	2	1	21	6	4	3	40
Carcinosarcoma, NOS	1	6	1	1	1	3	1	2	16
Chondrosarcoma, NOS	0	3	0	0	0	0	1	0	4
Clear cell ca., NOS	3	0	0	0	0	1	0	1	5
Cystic adenocarcinoma	2	0	0	0	0	0	0	3	5
Epithelial-myoepithelial ca.	1	0	0	1	0	1	0	18	21
Ewing sa., NOS	0	0	0	0	0	1	0	0	1
Fibrosarcoma, NOS	0	0	0	0	1	1	1	0	3
Hemangiosarcoma	1	2	0	0	0	0	0	0	3
Interdigitating dendritic cell sa.	0	0	0	0	0	0	0	1	1
Large cell carcinoma, NOS	0	0	0	0	0	0	0	1	1
Leiomyosarcoma, NOS	1	0	1	3	0	2	0	0	7
Liposarcoma, NOS	2	1	1	1	0	0	0	0	5
Lymphoepithelial ca.	0	0	3	9	40	0	0	4	56
Malig.fibrous histiocytoma	0	0	0	0	0	0	2	0	2
Malig. lymphoma, NOS	4	0	0	10	1	6	2	16	39
Malig. melanoma, NOS	19	0	0	0	1	50	7	1	78
Mixed tumor, malig., NOS	0	0	0	0	0	0	0	1	1
Mucinous adenocarcinoma	1	0	0	0	0	0	0	1	2
Mucoepidermoid ca.	24	1	2	13	2	1	5	70	118
Myoepithelial ca.	1	0	0	3	1	2	1	10	18
Neoplasm, malig.	6	1	0	5	0	2	1	3	18
Neuroendocrine ca., NOS	0	0	0	0	0	3	0	0	3
Olfactory neuroblastoma	0	0	0	0	0	23	0	0	23
Oncocytic ca.	1	0	0	0	0	0	0	3	4
Osteosarcoma, NOS	4	0	0	0	0	1	4	1	10
Papillary cytadenocarcinoma, NOS	0	0	0	1	0	0	0	0	1
Papillary S.C.C.	4	4	0	0	0	1	1	0	10
Plasmacytoma, NOS	0	0	0	1	0	3	0	0	4
Pleomorphic ca.	0	0	0	1	0	0	0	0	1
Polymorphous low grade adenocarcinoma	3	0	0	1	0	1	0	0	5
Rhabdomyosarcoma, NOS	0	0	0	0	0	7	2	0	9
Salivary duct ca.	5	0	0	1	0	1	0	97	104
Sa., undiff., NOS	0	0	0	0	0	0	1	0	1
Sebaceous ca.	0	0	0	0	0	1	0	1	2
Small cell ca., NOS	3	2	2	2	0	10	5	1	25
Spindle cell ca., NOS	8	5	3	5	2	1	5	1	30
S.C.C. in situ with quest. stromal invasion	3	2	3	1	0	0	0	0	9
S.C.C. in situ, NOS	66	55	81	37	1	3	5	0	248
S.C.C. kerat., NOS	143	73	49	50	8	2	6	2	333
S.C.C. large cell, nonkerat.	5	2	5	4	9	0	1	0	26
S.C.C. microinvasive	21	15	32	10	0	0	0	0	78
S.C.C., NOS	2076	1839	1688	1346	169	127	259	59	7563
S.C.C., small cell, nonkera.	0	2	4	13	9	2	3	0	33
S.C.C. spindle cell	6	3	0	2	0	0	1	0	12
Transition cell ca., NOS	0	0	0	2	1	4	1	0	8
Verrucous ca., NOS	34	3		1	0	1	0	0	39
Total	2505	2029	1902	1569	282	320	352	565	9524

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

NOS: not otherwise specified.

undiff.: undifferentiated.

kerat.: keratinizing.

S.C.C.: squamous cell carcinoma.

sa., Sa.: sarcoma.

nonkerat.: nonkeratinizing.

ca., Ca.: carcinoma.

malig., Malig.: malignant.

quest.: questionable.

Histological Distribution by Primary Site (Male)

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.	0	0	0	1	0	1	0	18	20
Adenocarcinoma, NOS	3	0	3	3	0	10	2	36	57
Adenoid cystic ca.	17	2	0	13	2	8	10	40	92
Adenosquamous ca.	3	0	3	2	0	1	1	1	11
Basal cell adenocarcinoma	0	0	0	1	0	2	0	4	7
Basal cell ca., NOS	1	0	0	0	0	0	0	3	4
Basaloid S.C.C.	2	1	9	3	1	1	3	1	21
Carcinoid tumor, NOS	0	1	0	2	0	0	0	0	3
Ca. ex pleomorphic adenoma	3	0	0	1	0	0	0	31	35
Ca., NOS	8	5	6	2	8	5	5	14	53
Ca., undiff., NOS	1	1	2	1	20	3	3	3	34
Carcinosarcoma, NOS	0	6	1	1	0	2	0	2	12
Chondrosarcoma, NOS	0	3	0	0	0	0	1	0	4
Clear cell ca., NOS	2	0	0	0	0	0	0	1	3
Cystic adenocarcinoma	1	0	0	0	0	0	0	0	1
Epithelial-myoepithelial ca.	0	0	0	1	0	1	0	10	12
Ewing sa., NOS	0	0	0	0	0	0	0	0	0
Fibrosarcoma, NOS	0	0	0	0	1	0	0	0	1
Hemangiosarcoma	0	2	0	0	0	0	0	0	2
Interdigitating dendritic cell sa.	0	0	0	0	0	0	0	0	0
Large cell carcinoma, NOS	0	0	0	0	0	0	0	1	1
Leiomyosarcoma, NOS	0	0	1	3	0	2	0	0	6
Liposarcoma, NOS	0	1	1	1	0	0	0	0	3
Lymphoepithelial ca.	0	0	3	6	34	0	0	4	47
Malig.fibrous histiocytoma	0	0	0	0	0	0	1	0	1
Malig. lymphoma, NOS	3	0	0	7	1	5	1	9	26
Malig. melanoma, NOS	13	0	0	0	0	22	1	1	37
Mixed tumor, malig., NOS	0	0	0	0	0	0	0	1	1
Mucinous adenocarcinoma	1	0	0	0	0	0	0	1	2
Mucoepidermoid ca.	9	1	2	8	0	0	3	34	57
Myoepithelial ca.	1	0	0	3	1	2	1	6	14
Neoplasm, malig.	2	1	0	5	0	2	0	2	12
Neuroendocrine ca., NOS	0	0	0	0	0	2	0	0	2
Olfactory neuroblastoma	0	0	0	0	0	12	0	0	12
Oncocytic ca.	1	0	0	0	0	0	0	1	2
Osteosarcoma, NOS	3	0	0	0	0	0	3	1	7
Papillary cytadenocarcinoma, NOS	0	0	0	1	0	0	0	0	1
Papillary S.C.C.	3	4	0	0	0	1	0	0	8
Plasmacytoma, NOS	0	0	0	1	0	0	0	0	1
Pleomorphic ca.	0	0	0	1	0	0	0	0	1
Polymorphous low grade adenocarcinoma	0	0	0	1	0	1	0	0	2
Rhabdomyosarcoma, NOS	0	0	0	0	0	3	0	0	3
Salivary duct ca.	5	0	0	1	0	1	0	79	86
Sa., undiff., NOS	0	0	0	0	0	0	1	0	1
Sebaceous ca.	0	0	0	0	0	0	0	0	0
Small cell ca., NOS	2	2	2	2	0	8	5	1	22
Spindle cell ca., NOS	5	5	3	2	2	1	4	1	23
S.C.C. in situ with quest. stromal invasion	1	2	3	1	0	0	0	0	7
S.C.C. in situ, NOS	38	48	76	34	1	1	5	0	203
S.C.C. kerat., NOS	89	67	42	39	4	2	5	2	250
S.C.C. large cell, nonkerat.	3	2	4	3	6	0	1	0	19
S.C.C. microinvasive	18	13	30	9	0	0	0	0	70
S.C.C., NOS	1369	1723	1558	1119	138	101	194	44	6246
S.C.C., small cell, nonkera.	0	2	4	13	7	2	3	0	31
S.C.C. spindle cell	3	0	0	1	0	0	1	0	5
Transitionl cell ca., NOS	0	0	0	2	1	3	0	0	6
Verrucous ca., NOS	19	3	0	1	0	1	0	0	24
Total	1629	1895	1753	1294	227	205	254	334	7611

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

NOS: not otherwise specified.

undiff.: undifferentiated.

kerat.: keratinizing.

S.C.C.: squamous cell carcinoma.

sa., Sa.: sarcoma.

nonkerat.: nonkeratinizing.

ca., Ca.: carcinoma.

malig., Malig.: malignant.

quest.: questionable.

Head and Neck Cancer ----- 9524 Cases

Histological Distribution by Primary Site (Female)

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.	1	0	0	0	0	0	0	21	22
Adenocarcinoma, NOS	0	0	0	4	0	6	0	21	31
Adenoid cystic ca.	11	0	1	10	1	14	8	44	89
Adenosquamous ca.	2	0	1	0	0	1	0	0	4
Basal cell adenocarcinoma	0	0	0	0	0	1	0	6	7
Basal cell ca., NOS	0	0	0	0	0	0	0	2	2
Basaloid S.C.C.	0	0	1	0	0	0	1	0	2
Carcinoid tumor, NOS	0	0	0	0	0	1	0	0	1
Ca. ex pleomorphic adenoma	0	0	0	0	0	0	0	16	16
Ca., NOS	4	0	1	2	3	2	3	7	22
Ca., undiff., NOS	1	0	0	0	1	3	1	0	6
Carcinosarcoma, NOS	1	0	0	0	1	1	1	0	4
Chondrosarcoma, NOS	0	0	0	0	0	0	0	0	0
Clear cell ca., NOS	1	0	0	0	0	1	0	0	2
Cystic adenocarcinoma	1	0	0	0	0	0	0	3	4
Epithelial-myoeptithelial ca.	1	0	0	0	0	0	0	8	9
Ewing sa., NOS	0	0	0	0	0	1	0	0	1
Fibrosarcoma, NOS	0	0	0	0	0	1	1	0	2
Hemangiosarcoma	1	0	0	0	0	0	0	0	1
Interdigitating dendritic cell sa.	0	0	0	0	0	0	0	1	1
Large cell carcinoma, NOS	0	0	0	0	0	0	0	0	0
Leiomyosarcoma, NOS	1	0	0	0	0	0	0	0	1
Liposarcoma, NOS	2	0	0	0	0	0	0	0	2
Lymphoepithelial ca.	0	0	0	3	6	0	0	0	9
Malig.fibrous histiocytoma	0	0	0	0	0	0	1	0	1
Malig. lymphoma, NOS	1	0	0	3	0	1	1	7	13
Malig. melanoma, NOS	6	0	0	0	1	28	6	0	41
Mixed tumor, malig., NOS	0	0	0	0	0	0	0	0	0
Mucinous adenocarcinoma	0	0	0	0	0	0	0	0	0
Mucoepidermoid ca.	15	0	0	5	2	1	2	36	61
Myoepithelial ca.	0	0	0	0	0	0	0	4	4
Neoplasm, malig.	4	0	0	0	0	0	1	1	6
Neuroendocrine ca., NOS	0	0	0	0	0	1	0	0	1
Olfactory neuroblastoma	0	0	0	0	0	11	0	0	11
Oncocytic ca.	0	0	0	0	0	0	0	2	2
Osteosarcoma, NOS	1	0	0	0	0	1	1	0	3
Papillary cyadenocarcinoma, NOS	0	0	0	0	0	0	0	0	0
Papillary S.C.C.	1	0	0	0	0	0	1	0	2
Plasmacytoma, NOS	0	0	0	0	0	3	0	0	3
Pleomorphic ca.	0	0	0	0	0	0	0	0	0
Polymorphous low grade adenocarcinoma	3	0	0	0	0	0	0	0	3
Rhabdomyosarcoma, NOS	0	0	0	0	0	4	2	0	6
Salivary duct ca.	0	0	0	0	0	0	0	18	18
Sa., undiff., NOS	0	0	0	0	0	0	0	0	0
Sebaceous ca.	0	0	0	0	0	1	0	1	2
Small cell ca., NOS	1	0	0	0	0	2	0	0	3
Spindle cell ca., NOS	3	0	0	3	0	0	1	0	7
S.C.C. in situ with quest. stromal invasion	2	0	0	0	0	0	0	0	2
S.C.C. in situ, NOS	28	7	5	3	0	2	0	0	45
S.C.C. kerat., NOS	54	6	7	11	4	0	1	0	83
S.C.C. large cell, nonkerat.	2	0	1	1	3	0	0	0	7
S.C.C. microinvasive	3	2	2	1	0	0	0	0	8
S.C.C., NOS	707	116	130	227	31	26	65	15	1317
S.C.C., small cell, nonkera.	0	0	0	0	2	0	0	0	2
S.C.C. spindle cell	3	3	0	1	0	0	0	0	7
Transitionl cell ca., NOS	0	0	0	0	0	1	1	0	2
Verrucous ca., NOS	15	0	0	0	0	0	0	0	15
Total	875	134	149	274	55	114	98	192	1913

Nasal cavity, etc.: nasal cavity and paranasal sinuses (excluding the maillary sinus).
 NOS: not otherwise specified.
 undiff.: undifferentiated.
 kerat.: keratinaizing.

S.C.C.: squamous cell carcinoma.
 sa., Sa.: sarcoma.
 nonkerat.: nonkeratinizing.

ca., Ca.: carcinoma.
 malig., Malig.: malignant.
 quest.: questionable.

Head and Neck Cancer ——— 9524 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	11	0	0	0	2	0	0	0	0	0	0	13
Tis	179	1	0	0	0	0	0	0	0	0	0	180
T1	1084	78	35	31	132	20	17	0	4	6	11	1418
T1a	470	0	0	0	1	0	1	0	0	1	4	477
T1b	142	1	0	0	0	0	0	0	0	0	1	144
T2	1586	274	40	43	504	145	42	0	6	7	8	2655
T3	728	159	20	18	309	194	27	2	5	2	9	1473
T4	51	39	32	2	30	21	7	1	5	0	1	189
T4a	578	185	7	9	454	290	29	0	0	2	10	1564
T4b	118	25	0	4	68	69	10	0	0	1	2	297
TX	11	0	1	3	3	0	1	0	0	29	1	49
T-	23	9	1	0	7	0	2	0	0	1	1022	1065
Total	4981	771	136	110	1510	739	136	3	20	49	1069	9524

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	10	0	0	0	1	0	0	0	0	0	0	11
Tis	179	1	0	0	0	0	0	0	0	0	0	180
T1	1069	74	33	31	126	20	14	0	4	4	8	1383
T1a	464	0	0	0	1	0	1	0	0	0	2	468
T1b	137	1	0	0	0	0	0	0	0	0	0	138
T2	1563	266	35	42	483	133	34	0	4	4	7	2571
T3	703	153	15	18	294	170	23	2	4	2	8	1392
T4	44	33	28	1	28	17	5	0	3	0	0	159
T4a	555	179	5	8	425	257	27	0	0	2	6	1464
T4b	107	23	0	4	60	60	8	0	0	0	1	263
TX	11	0	1	2	3	0	1	0	0	2	1	21
T-	23	8	1	0	6	0	2	0	0	0	4	44
Total	4865	738	118	106	1427	657	115	2	15	14	37	8094

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 ----- 9524 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	1	4	2	0	3	0	3	0	0	0	0	13
T2	6	5	4	0	16	11	6	0	2	0	0	50
T3	9	2	4	0	12	24	4	0	1	0	0	56
T4	3	4	4	1	1	3	2	1	2	0	0	21
T4a	16	3	2	0	25	29	2	0	0	0	2	79
T4b	8	2	0	0	6	9	2	0	0	1	0	28
TX	0	0	0	0	0	0	0	0	0	1	0	1
T-	0	0	0	0	1	0	0	0	0	0	0	1
Total	43	20	16	1	64	76	19	1	5	2	2	249

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	1	0	0	0	1	0	0	0	0	0	0	2
Tis	0	0	0	0	0	0	0	0	0	0	0	0
T1	14	0	0	0	3	0	0	0	0	2	3	22
T1a	6	0	0	0	0	0	0	0	0	1	2	9
T1b	5	0	0	0	0	0	0	0	0	0	1	6
T2	17	3	1	1	5	1	2	0	0	3	1	34
T3	16	4	1	0	3		0	0	0	0	1	25
T4	1	1	0	0	0	1	0	0	0	0	1	4
T4a	10	4	0	1	5	4	0	0	0	0	2	26
T4b	3	0	0	0	2	0	0	0	0	0	1	6
TX	0	0	0	1	0	0	0	0	0	26	0	27
T-	0	1	0	0	0	0	0	0	0	1	1018	1020
Total	73	13	2	3	19	6	2	0	0	33	1030	1181

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 ----- 9524 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	252	1206	972	856	242	146	183	63	3920
With	1885	636	742	556	4	139	119	417	4498
Unknown	368	187	188	157	36	35	50	85	1106
Radiotherapy									
Without	1667	549	595	460	12	92	56	261	3692
With	470	1293	1119	952	234	193	246	220	4727
Unknown	368	187	188	157	36	35	50	84	1105
Chemotherapy									
Without	1666	1259	714	567	35	147	87	387	4862
With	471	583	1000	845	211	138	215	94	3557
Unknown	368	187	188	157	36	35	50	84	1105
Total	2505	2029	1902	1569	282	320	352	565	9524

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maxillary 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	1200	1529	1147	1022	242	252	259	175	5826
With	934	311	565	385	5	21	45	302	2568
Unknown	371	189	190	162	35	47	48	88	1130
Radiotherapy									
Without	1789	1435	773	575	33	218	219	321	5363
With	345	405	939	832	213	51	85	156	3026
Unknown	371	189	190	162	36	51	48	88	1135
Chemotherapy									
Without	1785	1538	856	638	46	218	220	399	5700
With	349	302	856	769	200	52	84	78	2690
Unknown	371	189	190	162	36	50	48	88	1134
Total	2505	2029	1902	1569	282	320	352	565	9524

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

Sequence of Treatment Methods for the Primary Lesion by Primary Site

Sequence of treatment methods	(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 treatment	39	24	36	32	3	10	8	8	160
A) Surg. alone	1455	467	432	329	1	65	28	226	3003
F) (Rad.+Chem.)	75	416	524	457	132	60	113	11	1788
B) Rad. alone	65	681	156	137	29	40	27	24	1159
AB) Surg.->Rad.	81	64	74	56	1	29	21	122	448
CF) Chem.->(Rad.+Chem.)	21	32	138	109	20	8	10	0	338
AF) Surg.->(Rad.+Chem.)	105	30	70	61	0	14	12	35	327
CA) Chem.->Surg.	86	23	54	27	0	2	5	0	197
C) Chem. alone	28	16	47	45	7	8	10	13	174
FA) (Rad.+Chem.)->Surg.	28	18	22	21	1	4	19	1	114
FC) (Rad.+Chem.)->Chem.	2	9	17	14	38	5	4	2	91
AC) Surg.->Chem.	31	6	6	13	0	2	3	11	72
CAF) Chem.->Surg.->(Rad.+Chem.)	25	3	25	10	0	6	2	0	71
CAB) Chem.->Surg.->Rad.	15	3	27	14	0	4	2	0	65
CB) Chem.->Rad.	5	7	18	25	1	4	3	2	65
BA) Rad.->Surg.	2	11	7	5	0	2	2	1	30
BC) Rad.->Chem.	6	6	4	2	1	5	4	1	29
CFC) Chem.->(Rad.+Chem.)->Chem.	1	3	7	9	8	0	1	0	29
AA) Surg.->Surg.	13	4	4	2	0	0	1	2	26
AFC) Surg.->(Rad.+Chem.)->Chem.	8	0	3	2	0	0	2	8	23
ABC) Surg.->Rad.->Chem.	3	0	2	2	0	3	1	8	19
CAC) Chem.->Surg.->Chem.	7	1	5	3	0	2	1	0	19
FAF) (Rad.+Chem.)->Surg.->(Rad.+Chem.)	9	2	3	3	0	0	2	0	19
CCF) Chem.->Chem.->(Rad.+Chem.)	0	0	9	3	0	1	1	0	14
Others	27	16	24	31	4	11	20	5	138
Unknown	368	187	188	157	36	35	50	85	1106
Total	2505	2029	1902	1569	282	320	352	565	9524

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

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Head and Neck Cancer ----- 9524 Cases

Surgical Methods for the Primary Lesion by Primary Site

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
Surgical method	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
No surgery	251	1206	972	854	242	146	182	63	3916
A1) Partial glossectomy	787	0	0	3	0	0	0	0	790
G5) Total laryngectomy	0	316	7	2	0	0	0	0	325
F5) Total pharyngolaryngectomy	0	9	227	1	0	0	0	0	237
D1) Partial maxillectomy	141	0	0	1	0	23	40	0	205
F1)(G1) Endoscopic resection	0	63	131	3	0	0	0	0	197
E3) Unilateral resection of the lateral wall of oropharynx	0	0	0	180	0	0	0	1	181
G2) Transoral resection	0	179	1	1	0	0	0	0	181
F2) Transoral resection of the pharynx	1	2	164	6	0	0	0	0	173
C2) Resection of the floor of mouth	168	0	0	0	0	0	0	2	170
A5) Subtotal glossectomy	139	0	0	5	0	0	0	1	145
F6) Total pharyngolaryngo-esophagectomy	0	7	121	1	0	0	0	0	129
B2) Segmental mandibulectomy	121	0	0	0	0	0	0	1	122
E9) Resection of the oropharynx, NOS	2	2	0	112	0	0	0	0	116
H4) Total parotidectomy	1	0	0	0	0	0	0	108	109
H6) Total submandibulectomy	0	0	0	1	0	0	0	96	97
C4) Resection of the buccal mucosa	96	0	0	0	0	0	0	0	96
H2) Superficial parotidectomy	0	0	0	0	0	0	0	92	92
B1) Marginal mandibulectomy	79	0	0	1	0	0	0	0	80
A4) Hemiglossectomy	75	0	0	2	0	0	0	0	77
C9) Resection of oral cavity, NOS	72	0	0	0	0	0	0	1	73
A2) Hemiglossectomy (anterior 2/3 rd s)	68	0	0	0	0	0	0	0	68
D2) Total maxillectomy	12	0	0	0	0	3	47	0	62
E1) Resection of the root of tongue	0	0	0	58	0	0	0	0	58
E8) Resection of the soft palate	1	0	0	53	1	0	0	0	55
H5) Extended parotidectomy	0	0	0	0	0	0	0	49	49
A6) Total glossectomy	27	0	0	8	0	0	0	0	35
E6) Resection of the posterior wall	0	0	0	35	0	0	0	0	35
Others	96	57	89	84	3	111	33	66	539
V9)+ Unknown	368	188	190	158	36	37	50	85	1112
Total	2505	2029	1902	1569	282	320	352	565	9524

Nasal cavity, etc.: nasal cavity and paranasal sinuses (excluding the maxillary sinus). NOS: not otherwise specified.

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	1461	1768	1292	1250	246	256	240	378	6891
B) Free jejunal flap	1	21	337	12	0	0	0	0	371
D) Free RA MC flap	177	6	2	44	0	6	41	12	288
E) Free ALT flap	182	5	7	63	1	2	0	18	278
C) Free FA flap	90	2	19	17	0	4	1	3	136
5) PM MC flap	40	8	11	13	0	0	0	7	79
G) Free fibular OC flap	55	0	0	0	0	0	4	1	60
2) Local skin flap	28	6	2	4	0	5	0	9	54
1) Skin graft	43	0	0	0	0	0	4	1	48
I) Free nerve graft	0	0	0	0	0	0	0	31	31
F) Free scapular OC flap	18	0	0	1	0	0	0	0	19
7) Gastric pull-up	0	1	17	0	0	0	0	0	18
3) Mucosal flap	6	0	1	3	0	3	0	0	13
4) DP flap	1	5	3	0	0	0	0	4	13
8) Others	34	3	5	2	0	9	6	13	72
9) Unknown	369	204	206	160	35	35	56	88	1153
Total	2505	2029	1902	1569	282	320	352	565	9524

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

RA: rectus abdominis.

FA: forearm.

DP: deltopectoral.

MC: musclocutaneous.

PM: pectoralis major.

ALT: anterolateral thigh.

OC: osteocutaneous.

Head and Neck Cancer ——— 9524 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.	1204	1530	1149	1025	242	250	257	177	5834
1) Total N.D.	283	90	187	149	1	4	12	101	827
2) Selective N.D.	618	212	372	220	4	17	33	180	1656
3) Lymph node excision	13	4	0	8	0	0	2	14	41
8) Others	4	1	0	1	0	1	0	1	8
Unknown type	12	3	4	4	0	1	0	4	28
9) Unknown	371	189	190	162	35	47	48	88	1130
Total	2505	2029	1902	1569	282	320	352	565	9524

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.	1822	1650	1335	1319	246	268	299	457	7396
1) Total N.D.	46	37	72	20	0	0	1	2	178
2) Selective N.D.	246	149	299	61	1	3	4	14	777
3) Lymph node excision	4	1	1	2	0	0	0	0	8
8) Others	3	0	0	1	0	1	0	0	5
Unknown type	0	0	5	4	0	1	0	4	14
9) Unknown	384	192	190	162	35	47	48	88	1146
Total	2505	2029	1902	1569	282	320	352	565	9524

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

N.D.: neck dissection.

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	1629	535	578	448	11	90	53	251	3595
1) X-ray (and/or electron beam)	436	1276	1116	915	230	161	224	217	4575
2) Particle beam	11	2	0	7	1	26	17	8	72
3) B.T.	18	0	0	1	0	0	0	0	19
4) X-ray + Particle beam	5	1	0	2	1	0	2	0	11
5) X-ray + B.T.	4	0	0	1	0	0	0	0	5
8) Others	3	2	2	4	0	5	0	4	20
Unknown type	31	26	17	33	4	3	8	0	122
9) Unknown	368	187	189	158	35	35	48	85	1105
Total	2505	2029	1902	1569	282	320	352	565	9524

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

Head and Neck Cancer ----- 9524 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	1631	1245	696	556	35	132	87	382	4764
1) I.V.	310	458	882	709	182	113	82	76	2812
3) Oral	96	90	48	34	4	4	7	11	294
2) I.A.	42	8	12	19	1	9	102	0	193
5) I.V.+Oral	24	25	53	54	19	3	2	6	186
4) I.V.+I.A.	8	1	0	2	2	1	15	0	29
6) I.A.+Oral	1	0	0	2	0	1	2	0	6
7) I.V.+I.A.+Oral	1	0	0	0	0	0	1	0	2
8) others	2	0	0	0	0	2	0	1	5
Unknown route	21	13	22	32	4	7	6	4	109
9) Unknown	369	189	189	161	35	48	48	85	1124
Total	2505	2029	1902	1569	282	320	352	565	9524

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maxillary sinus).
I.V.: intravenous.
I.A.: intraarterial.

Oral Cavity (2014)

2505 Cases

Carcinoma of the Oral Cavity ----- 2505 Cases

Primary Site

Site	Number of patients (%)	
1) Lip	20	(0.8)
2) Buccal mucosa	156	(6.2)
3) Retro-molar area	51	(2.0)
4) Lower gingiva	296	(11.8)
5) Upper gingiva	226	(9.0)
6) Hard palate	77	(3.1)
7) Floor of mouth	285	(11.4)
8) Tongue	1382	(55.2)
9) Oral cavity, NOS	12	(0.5)
Total	2505	(100.0)

NOS: not otherwise specified

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	1	3	4
20 - 29	16	16	32
30 - 39	65	44	109
40 - 49	124	59	183
50 - 59	274	115	389
60 - 69	496	197	693
70 - 79	457	253	710
80 - 89	176	159	335
90 - 99	18	31	49
Total	1628	877	2505

Carcinoma of the Oral Cavity ----- 2505 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	1	1	2
50 - 59	0	1	1
60 - 69	5	2	7
70 - 79	1	2	3
80 - 89	2	2	4
90 - 99	3	0	3
Total	12	8	20

Carcinoma of the Buccal Mucosa**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	0	0	0
40 - 49	3	2	5
50 - 59	14	7	21
60 - 69	23	15	38
70 - 79	34	25	59
80 - 89	12	14	26
90 - 99	1	4	5
Total	89	67	156

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

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	2	1	3
50 - 59	6	1	7
60 - 69	13	2	15
70 - 79	12	4	16
80 - 89	4	3	7
90 - 99	0	1	1
Total	38	13	51

Carcinoma of the Oral Cavity ----- 2505 Cases

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

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	2	1	3
40 - 49	10	1	11
50 - 59	19	8	27
60 - 69	49	29	78
70 - 79	53	43	96
80 - 89	35	35	70
90 - 99	3	7	10
Total	172	124	296

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	1	1
30 - 39	1	1	2
40 - 49	7	3	10
50 - 59	15	11	26
60 - 69	30	24	54
70 - 79	39	33	72
80 - 89	20	35	55
90 - 99	1	5	6
Total	113	113	226

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

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	0	2	2
30 - 39	3	0	3
40 - 49	6	0	6
50 - 59	5	8	13
60 - 69	12	2	14
70 - 79	13	13	26
80 - 89	7	2	9
90 - 99	1	2	3
Total	47	30	77

Carcinoma of the Oral Cavity ——— 2505 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	1	1
30 - 39	0	3	3
40 - 49	5	7	12
50 - 59	42	9	51
60 - 69	103	13	116
70 - 79	65	13	78
80 - 89	13	10	23
90 - 99	1	0	1
Total	229	56	285

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

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	15	12	27
30 - 39	58	38	96
40 - 49	89	43	132
50 - 59	170	70	240
60 - 69	257	109	366
70 - 79	239	120	359
80 - 89	83	58	141
90 - 99	8	12	20
Total	919	463	1382

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	1	1
40 - 49	1	1	2
50 - 59	3	0	3
60 - 69	4	1	5
70 - 79	1	0	1
80 - 89	0	0	0
90 - 99	0	0	0
Total	9	3	12

NOS: not otherwise specified

Carcinoma of the Oral Cavity ----- 2505 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	0	0	0	0	1	0	0	0	1
Adenocarcinoma, NOS	0	1	0	0	0	0	1	1	0	3
Adenoid cystic ca.	0	5	1	1	1	9	6	5	0	28
Adenosquamous ca.	0	1	1	0	1	0	1	1	0	5
Basal cell ca., NOS	0	0	0	0	0	0	1	0	0	1
Basaloid S.C.C.	0	0	0	0	0	0	1	1	0	2
Ca. ex pleomorphic adenoma	0	0	0	1	1	1	0	0	0	3
Ca., NOS	0	0	0	1	2	1	2	4	2	12
Ca. undiff., NOS	0	0	0	1	0	0	1	0	0	2
Carcinosarcoma, NOS	0	0	0	0	0	0	0	1	0	1
Clear cell ca., NOS	0	0	0	2	0	1	0	0	0	3
Cystic adenocarcinoma	0	1	0	0	0	0	0	1	0	2
Epithelial-myoeipithelial ca.	0	0	0	0	0	1	0	0	0	1
Hamangiosarcoma	0	0	0	0	1	0	0	0	0	1
Leiomyosarcoma, NOS	0	0	0	0	0	0	0	1	0	1
Liposarcoma, NOS	0	1	0	0	1	0	0	0	0	2
Malig. lymphoma, NOS	0	0	0	0	1	1	0	2	0	4
Malig. melanoma, NOS	2	5	0	1	4	5	0	1	1	19
Mucinous adenocarcinoma	0	0	0	0	0	0	1	0	0	1
Mucoepidermoid ca.	0	3	2	5	0	9	2	3	0	24
Myoeipithelial ca.	0	1	0	0	0	0	0	0	0	1
Neoplasm, malig.	0	0	1	0	1	1	3	0	0	6
Oncocytic ca.	0	1	0	0	0	0	0	0	0	1
Osteosarcoma, NOS	0	0	0	4	0	0	0	0	0	4
Papillary S.C.C.	0	1	0	0	0	0	0	3	0	4
Polymorphous low grade adenocarcinoma	0	0	1	0	0	2	0	0	0	3
Salivary duct ca.	0	5	0	0	0	0	0	0	0	5
Small cell ca., NOS	0	0	0	1	1	1	0	0	0	3
Spindle cell ca., NOS	0	0	0	0	1	0	0	7	0	8
S.C.C. in situ with quest. stromal invasion	0	0	0	0	0	0	1	2	0	3
S.C.C. in situ, NOS	0	5	1	5	5	5	4	41	0	66
S.C.C. kerat., NOS	2	6	3	14	16	2	11	89	0	143
S.C.C. large cell, nonkerat. NOS	0	0	0	0	0	0	0	4	1	5
S.C.C. microinvasive	0	0	0	1	1	0	4	15	0	21
S.C.C., NOS	16	115	41	253	185	36	242	1180	8	2076
S.C.C. spindle cell	0	0	0	3	0	0	0	3	0	6
Verrucous ca., NOS	0	5	0	3	4	1	4	17	0	34
Total	20	156	51	296	226	77	285	1382	12	2505

NOS: not otherwise specified.

ca., Ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

undiff.: undifferentiated.

quest.: questionable.

kerat.: keratinizing.

nonkerat.: nonkeratinizing.

Carcinoma of the Oral Cavity ----- 2505 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	6	0	0	0	0	0	0	0	0	6
Tis	33	0	0	0	0	0	0	0	0	33
T1	538	16	0	0	19 (1)	5	1	2	6	587
T2	532 (1)	80	0	2	81	14	2 (2)	5	4	720
T3	99	31 (1)	4	2	33 (1)	13 (1)	1	0	3	186
T4	10	8	3	0	12	11 (1)	0	0	1	45
T4a	183 (1)	72 (1)	3	1	135 (2)	62 (3)	5	1	4	466
T4b	19 (2)	7	0	1	14	7 (1)	0	0	1	49
TX	2	0	0	0	0	0	0	9	0	11
T-	7	0	0	0	3	0	0	0	392	402
Total	1429	214	10	6	297	112	9	17	411	2505

M1: 18 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	7	0	0	0	0	1	0	0	0	8
T2	5	0	0	0	0	0	0	0	0	5
T3	3	0	0	0	0	0	0	0	0	3
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	3	3
Total	16	0	0	0	0	1	0	0	3	20

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 ----- 2505 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	2	0	0	0	0	0	0	0	0	2
T1	22	2	0	0	2	0	0	0	0	26
T2	33	2	0	0	13	0	0	0	0	48
T3	16	3	0	0	2	0	0	0	0	21
T4	0	1	1	0	0	0	0	0	0	2
T4a	5	4	0	0	2	1	0	0	0	12
T4b	1	3	0	0	5	2	0	0	0	11
TX	0	0	0	0	0	0	0	0	0	0
T-	2	0	0	0	1	0	0	0	31	34
Total	81	15	1	0	25	3	0	0	31	156

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 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	1	0	0	0	0	0	0	0	0	1
T1	4	0	0	0	1	0	0	0	0	5
T2	9	2	0	0	2	1	0	0	0	14
T3	1	2	0	0	1	1	1	0	0	6
T4	1	0	0	0	0	0	0	0	0	1
T4a	6 *	3	0	0	3	0	0	0	0	12
T4b	5	1	0	0	2	0	0	0	0	8
TX	0	0	0	0	0	0	0	0	0	0
T-	1	0	0	0	0	0	0	0	3	4
Total	28	8	0	0	9	2	1	0	3	51

M1: 1 case.

* signifies M1 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 ----- 2505 Cases

Carcinoma of the Lower Gingiva**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	1	0	0	0	0	0	0	0	0	1
T1	25	2	0	0	2	1	0	0	1	31
T2	43	4	0	0	5	0	0	0	0	52
T3	12	4	0	1	3	0	0	0	0	20
T4	5	3	1	0	4	0	0	0	0	13
T4a	60	10	1	0	34	8 *	0	1	1	115
T4b	3	2	0	0	3	0	0	0	0	8
TX	0	0	0	0	0	0	0	1	0	1
T-	0	0	0	0	0	0	0	0	54	54
Total	150	25	2	1	51	9	0	2	56	296

M1: 1 cases. * signifies one M1 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 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	1	0	0	0	0	0	0	0	0	1
T1	22	0	0	0	2	0	0	1	0	25
T2	33	11	0	1	2	0	0	0	0	47
T3	11	1	0	0	0	1	0	0	0	13
T4	2	0	1	0	0	0	0	0	1	4
T4a	44	17 *	1	0	10	2	0	0	0	74
T4b	8 *	1	0	1	2	0	0	0	1	13
TX	1	0	0	0	0	0	0	0	0	1
T-	0	0	0	0	0	0	0	0	48	48
Total	122	30	2	2	16	3	0	1	50	226

M1: 2 cases. Each * signifies one M1 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 ——— 2505 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	13	0	0	0	0	0	0	0	1	14
T2	14	3	0	0	0	0	0	0	0	17
T3	8	0	0	0	0	0	0	0	0	8
T4	1	1	0	0	1	0	0	0	0	3
T4a	8	0	0	0	2	2	0	0	0	12
T4b	2 *	0	0	0	0	1	0	0	0	3
TX	0	0	0	0	0	0	0	2	0	2
T-	0	0	0	0	0	0	0	0	17	17
Total	47	4	0	0	3	3	0	2	18	77

M1: 1 cases. * signifies one M1 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	1	0	0	0	0	0	0	0	0	1
T1	61	1	0	0	4	0	0	0	1	67
T2	58 *	12	0	0	20	7	2 **	0	1	100
T3	6	3 *	2	0	2	2	0	0	0	15
T4	5 *	0	0	0	0	0	0	0	0	5
T4a	20	9	0	1	20	10 *	2	0	1	63
T4b	0	0	0	0	2	3 *	0	0	0	5
TX	0	0	0	0	0	0	0	1	0	1
T-	0	0	0	0	0	0	0	0	28	28
Total	151	25	2	1	48	22	4	1	31	285

M1: 7 cases. Each * signifies one M1 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 ----- 2505 Cases

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

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	5	0	0	0	0	0	0	0	0	5
Tis	26	0	0	0	0	0	0	0	1	27
T1	383	11	0	0	8 *	3	1	1	3	410
T2	335	45	0	1	39	6	0	5	3	434
T3	41	18	2	1	25 *	9 *	0	0	3	99
T4	1	3	0	0	7	6	0	0	0	17
T4a	37	29	1	0	64 **	39 *	3	0	2	175
T4b	0	0	0	0	0	1	0	0	0	1
TX	1	0	0	0	0	0	0	5	0	6
T-	4	0	0	0	2	0	0	0	202	208
Total	833	106	3	2	145	64	4	11	214	1382

M1: 6 cases. Each * signifies one M1 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, 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	2	0	0	0	0	0	0	0	0	2
T3	1	0	0	0	0	0	0	0	0	1
T4	0	0	0	0	0	0	0	0	0	0
T4a	2	0	0	0	0	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	6	6
Total	6	0	0	0	0	0	0	0	6	12

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 ----- 2505 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	7	22	16	40	34	18	34	79	2	252
With	11	110	31	206	152	42	213	1114	6	1885
Unknown	2	24	4	50	40	17	38	189	4	368
Radiotherapy										
Without	12	84	22	185	128	39	179	1013	5	1667
With	6	48	25	61	58	21	68	180	3	470
Unknown	2	24	4	50	40	17	38	189	4	364
Chemotherapy										
Without	16	90	28	180	139	48	174	985	6	1666
With	2	42	19	66	47	12	73	208	2	471
Unknown	2	24	4	50	40	17	38	189	4	368
Total	20	156	51	296	226	77	285	1382	12	2505

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	14	75	26	96	125	54	122	683	5	1200
With	4	56	21	150	61	6	125	508	3	934
Unknown	2	25	4	50	40	17	38	191	4	371
Radiotherapy										
Without	17	101	27	202	155	54	190	1037	6	1789
With	1	30	20	44	31	6	57	154	2	345
Unknown	2	25	4	50	40	17	38	191	4	371
Chemotherapy										
Without	18	104	30	202	158	55	188	1023	7	1785
With	0	27	17	44	28	5	59	168	1	349
Unknown	2	25	4	50	40	17	38	191	4	371
Total	20	156	51	296	226	77	285	1382	12	2505

NOS: not otherwise specified.

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	1	0	10	5	0	6	17	0	39
A) Surg. alone	11	74	19	152	110	35	149	901	4	1455
AF) Surg.->(Rad.+Chem.)	0	8	4	15	5	1	18	54	0	105
CA) Chem.->Surg.	0	3	2	12	6	1	17	45	0	86
AB) Surg.->Rad.	0	8	4	7	11	5	11	34	1	81
F) (Rad.+Chem.)	1	10	6	15	10	2	10	21	0	75
B) Rad. alone	5	6	4	7	11	8	5	18	1	65
AC) Surg.->Chem.	0	3	0	4	3	0	1	20	0	31
C) Chem. alone	1	2	0	2	3	3	4	12	1	28
FA) (Rad.+Chem.)->Surg.	0	0	1	4	10	0	3	10	0	28
CAF) Chem.->Surg.->(Rad.+Chem.)	0	6	1	2	0	0	5	11	0	25
CF) Chem.->(Rad.+Chem.)	0	1	2	3	1	1	7	6	0	21
CAB) Chem.->Surg.->Rad.	0	3	0	1	2	0	2	7	0	15
AA) Surg.->Surg.	0	0	0	1	0	0	1	11	0	13
FAF) (Rad.+Chem.)->Surg.->(Rad+Chem.)	0	0	0	3	2	0	1	3	0	9
AFC) Surg.->(Rad.+Chem.)->Chem.	0	0	0	2	0	0	1	5	0	8
CAC) Chem.->Surg.->Chem.	0	1	0	2	0	0	0	4	0	7
BC) Rad.->Chem.	0	0	1	0	2	2	0	1	0	6
CB) Chem.->Rad.	0	1	0	0	1	0	1	2	0	5
ABC) Surg.->Rad.->Chem.	0	1	0	0	0	0	1	1	0	3
Others	0	4	3	4	4	2	4	10	1	32
Unknown	2	24	4	50	40	17	38	189	4	368
Total	20	156	51	296	226	77	285	1382	12	2505

NOS: not otherwise specified.

Surg.: surgery.

Chem.: chemotherapy.

Rad.: radiotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Oral Cavity ----- 2505 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	7	22	16	39	34	18	34	79	2	251
A1) Partial glossectomy	0	0	0	0	0	0	3	784	0	787
C2) Resection of the floor of mouth	0	1	0	1	0	0	166	0	0	168
D1) Partial maxillectomy	0	4	0	2	124	10	0	0	1	141
A5) Subtotal glossectomy	0	0	0	0	0	0	4	135	0	139
B2) Segmental mandibulectomy	0	2	8	104	0	0	7	0	0	121
C4) Resection of the buccal mucosa	0	84	9	2	1	0	0	0	0	96
B1) Marginal mandibulectomy	0	4	4	63	0	0	7	0	1	79
A4) Hemiglossectomy	0	0	0	0	0	0	2	73	0	75
C9) Resection of oral cavity, NOS	0	9	7	4	12	25	11	1	3	72
A2) Hemiglossectomy (anterior 2/3 rd s)	0	0	0	0	0	0	3	65	0	68
A3) Subtotal glossectomy (anterior 2/3 rd s)	0	0	0	0	0	0	5	22	0	27
A6) Total glossectomy	0	0	0	0	0	0	2	25	0	27
C3) Resection of lower gingiva	0	1	0	19	1	0	0	0	0	21
C1) Resection of the lip	11	2	0	0	0	0	0	0	0	13
D2) Total maxillectomy	0	1	0	0	8	3	0	0	0	12
A9) Resection of tongue, NOS	0	0	0	0	0	0	1	9	0	10
B3) Hemimandibulectomy	0	0	2	6	0	0	1	0	1	10
D9) Resection of maxilla, NOS	0	0	0	0	6	1	0	0	0	7
Others	0	2	1	6		3	1	0	0	13
Unknown	2	24	4	50	40	17	38	189	4	368
Total	20	156	51	296	226	77	285	1382	12	2505

NOS: not otherwise specified.

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	13	76	27	121	159	50	141	869	5	1461
E) Free ALT flap	1	19	5	19	3	2	30	102	1	182
D) Free RA MC flap	1	7	7	12	6	1	25	118	0	177
C) Free FA flap	0	9	0	5	2	0	21	53	0	90
G) Free fibular OC flap	0	2	4	42	2	1	3	1	0	55
1) Skin graft	0	6	0	7	10	3	6	10	1	43
5) PM MC flap	0	0	1	17	0	0	5	17	0	40
2) Local skin flap	3	6	1	2	1	0	7	7	1	28
F) Free scapular OC flap	0	0	2	13	0	0	3	0	0	18
3) Mucosal flap	0	0	0	2	1	1	2	0	0	6
4) DP flap	0	0	0	0	0	0	1	0	0	1
8)+Others	0	7	0	6	2	2	3	15	0	35
9) Unknown	2	24	4	50	40	17	38	190	4	369
Total	20	156	51	296	226	77	285	1382	12	2505

NOS: not otherwise specified.

MC: musculocutaneous.

PM: pectoralis major.

ALT: anterolateral thigh.

FA: forearm.

LD: latissimus dorsi.

RA: rectus abdominis.

OC: osteocutaneous.

DP: deltopectoral.

Carcinoma of the Oral Cavity ----- 2505 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.	14	77	25	96	126	54	122	685	5	1204
1) Total N.D.	1	17	3	41	19	2	40	159	1	283
2) Selective N.D.	2	35	18	107	36	4	85	329	2	618
3) Lymph node excision	1	1	1	1	5	0	0	4	0	13
8) Others	0	1	0	0	0	0	0	3	0	4
Unknown type	0	0	0	1	0	0	0	11	0	12
9) Unknown	2	25	4	50	40	17	38	191	4	371
Total	20	156	51	296	226	77	285	1382	12	2505

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.	18	123	45	214	178	58	176	1003	7	1822
1) Total N.D.	0	2	0	6	0	1	13	23	1	46
2) Selective N.D.	0	5	2	25	6	1	58	149	0	246
3) Lymph node excision	0	1	0	0	1	0	0	2	0	4
8) Others	0	0	0	0	0	0	0	3	0	3
Unknown type	0	0	0	0	0	0	0	0	0	0
9) Unknown	2	25	4	51	41	17	38	202	4	384
Total	20	156	51	296	226	77	285	1382	12	2505

NOS: not otherwise specified.

N.D.: neck dissection.

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	12	82	21	183	126	39	176	985	5	1629
1) X-ray (and/or electron beam)	3	40	22	57	51	15	67	179	2	436
3) B.T.	2	0	1	0	0	1	0	14	0	18
2) Particle beam	0	0	2	0	3	4	0	2	0	11
4) X-ray + Particle beam	0	2	0	0	1	0	0	2	0	5
5) X-ray + B.T.	0	1	1	0	0	0	0	2	0	4
8) Others	0	0	0	0	2	1	0	0	0	3
Unknown type	1	7	0	5	3	0	4	10	1	31
9) Unknown	2	24	4	51	40	17	38	188	4	368
Total	20	156	51	296	226	77	285	1382	12	2505

NOS: not otherwise specified.

B.T.: brachytherapy.

Carcinoma of the Oral Cavity ----- 2505 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	16	90	27	178	135	47	171	961	6	1631
1) I.V.	1	27	17	41	23	11	52	138	0	310
3) Oral	0	3	1	13	12	1	13	52	1	96
2) I.A.	1	4	1	7	10	0	6	13	0	42
5) I.V.+Oral	0	2	1	2	1	0	3	15	0	24
4) I.V.+I.A.	0	1	0	0	3	0	1	3	0	8
6) I.A.+Oral	0	0	0	0	0	0	0	0	1	1
7) I.V.+I.A.+Oral	0	0	0	0	0	0	0	1	0	1
8) Others	0	0	0	0	1	1	0	0	0	2
Unknown route	0	5	0	4	1	0	1	10	0	21
9) Unknown	2	24	4	51	40	17	38	189	4	369
Total	20	156	51	296	226	77	285	1382	12	2505

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Larynx (2014)

2029 Cases

Carcinoma of the Larynx ----- 2029 Cases

Subsite

Subsite	Number of patients (%)	
Glottis	1416	(69.8)
Supraglottis	509	(25.1)
Subglottis	57	(2.8)
Larynx, NOS	47	(2.3)
Total	2029	(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	0	1	1
30 - 39	8	2	10
40 - 49	38	1	39
50 - 59	189	20	209
60 - 69	654	34	688
70 - 79	719	50	769
80 - 89	276	20	296
90 - 100	14	3	17
Total	1898	131	2029

Carcinoma of the Larynx ----- 2029 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	0	0	0
50 - 59	3	0	3
60 - 69	19	1	20
70 - 79	24	2	26
80 - 89	8	0	8
90 - 99	0	0	0
Total	54	3	57

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	2	0	2
50 - 59	5	0	5
60 - 69	17	1	18
70 - 79	13	0	13
80 - 89	8	0	8
90 - 99	1	0	1
Total	46	1	47

NOS: not otherwise specified.

Carcinoma of the Larynx -----2029 Cases

Glottis**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	6	2	8
40 - 49	27	1	28
50 - 59	137	10	147
60 - 69	462	23	485
70 - 79	499	27	526
80 - 89	193	16	209
90 - 100	10	2	12
Total	1334	82	1416

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	2	0	2
40 - 49	9	0	9
50 - 59	44	10	54
60 - 69	156	9	165
70 - 79	183	21	204
80 - 89	67	4	71
90 - 99	3	1	4
Total	464	45	509

Carcinoma of the Larynx ——— 2029 Cases

Histological Distribution by Subsite

Histologic type	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Adenoid cystic ca.	0	2	0	0	2
Basaloid S.C.C.	0	1	0	0	1
Carcinoid tumor, NOS	0	1	0	0	1
Ca., NOS	1	2	1	1	5
Ca., undiff., NOS	1	0	0	0	1
Carcinosarcoma, NOS	3	2	0	1	6
Chondrosarcoma, NOS	0	0	1	2	3
Hemangiosarcoma	0	1	0	1	2
Liposarcoma, NOS	0	1	0	0	1
Mucoepidermoid ca.	1	0	0	0	1
Neoplasm, malig.	1	0	0	0	1
Papillary S.C.C.	2	2	0	0	4
Small cell ca., NOS	1	1	0	0	2
Spindle cell ca., NOS	2	2	1	0	5
S.C.C. in situ with quest. stromal invasion	2	0	0	0	2
S.C.C. in situ, NOS	46	8	0	1	55
S.C.C. kerat., NOS	52	19	1	1	73
S.C.C., large cell, nonkerat.	2	0	0	0	2
S.C.C. microinvasive	12	3	0	0	15
S.C.C., NOS	1284	463	52	40	1839
S.C.C., small cell, nonkerat.	2	0	0	0	2
S.C.C. spindle cell	1	1	1	0	3
Verrucous ca.	3	0	0	0	3
Total	1416	509	57	47	2029

NOS: not otherwise specified.

undiff.: undifferentiated.

kerat.:keratinizing.

ca., Ca.: carcinoma.

malig.: malignant.

nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.

quest.: questionable.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	2	0	0	0	0	0	0	0	0	2
Tis	41	0	0	0	0	0	0	0	0	41
T1	96	4	1	1	9	1	0	0	1	113
T1a	470	0	0	0	1	0	1	1	4	477
T1b	142	1	0	0	0	0	0	0	1	144
T2	415	27 (1)	0	2	29 (2)	23 (2)	3 (1)	0	2	501
T3	264 (1)	32	0	6	41	37 (5)	4 (1)	0	2	386
T4	8 (1)	2	1	0	4 (1)	2 (1)	0	0	0	17
T4a	95 (1)	20	0	0	32 (2)	37 (3)	0	0	2	186
T4b	0	0	0	0	0	1	1	0	0	2
TX	2	0	0	0	0	0	0	3	0	5
T-	5	4	0	0	0	0	1	0	145	155
Total	1540	90	2	9	116	101	10	4	157	2029

M1: 22 cases. Number in parentheses indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Larynx ——— 2029 Cases

Glottic Carcinoma

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	35	0	0	0	0	0	0	0	0	35
T1	37	1	1	0	2	0	0	0	0	41
T1a	460	0	0	0	1	0	1	1	4	467
T1b	138	1	0	0	0	0	0	0	1	140
T2	320	5	0	0	2	2	0	0	2	331
T3	171 (1)	13	0	2	15	8 (2)	0	0	2	211
T4	5 (1)	1	0	0	2 (1)	1	0	0	0	9
T4a	50 (1)	5	0	0	11	13 (1)	0	0	1	80
T4b	0	0	0	0	0	0	1	0	0	1
TX	2	0	0	0	0	0	0	3	0	5
T-	3	1	0	0	0	0	0	0	91	95
Total	1222	27	1	2	33	24	2	4	101	1416

M1: 7 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	1	0	0	0	0	0	0	0	0	1
Tis	5	0	0	0	0	0	0	0	0	5
T1	48	3	0	1	6	1	0	0	1	60
T1a	4	0	0	0	0	0	0	0	0	4
T1b	1	0	0	0	0	0	0	0	0	1
T2	77	20 (1)	0	2	26 (1)	20 (2)	3 (1)	0	0	148
T3	79	18	0	4	26	25 (1)	4 (1)	0	0	156
T4	1	0	1	0	1	1 (1)	0	0	0	4
T4a	26	12	0	0	19 (2)	22 (2)	0	0	1	80
T4b	0	0	0	0	0	1	0	0	0	1
TX	0	0	0	0	0	0	0	0	0	0
T-	2	3	0	0	0	0	1	0	43	49
Total	244	56	1	7	78	70	8	0	45	509

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 ——— 2029 Cases

Subglottic 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	1	0	0	0	0	0	0	0	0	1
T1	4	0	0	0	0	0	0	0	0	4
T2	17	1	0	0	1 (1)	1	0	0	0	20
T3	7	0	0	0	0	3 (1)	0	0	0	10
T4	0	0	0	0	1	0	0	0	0	1
T4a	12	3	0	0	0	2	0	0	0	17
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	41	4	0	0	2	6	0	0	4	57

M1: 2 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	7	0	0	0	1	0	0	0	0	8
T1a	6	0	0	0	0	0	0	0	0	6
T1b	3	0	0	0	0	0	0	0	0	3
T2	1	1	0	0	0	0	0	0	0	2
T3	7	1	0	0	0	1 (1)	0	0	0	9
T4	2	1	0	0	0	0	0	0	0	3
T4a	7	0	0	0	2	0	0	0	0	9
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	7	7
Total	33	3	0	0	3	1	0	0	7	47

M1: 1 case. 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 ----- 2029 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	893	267	30	16	1206
With	400	191	25	20	636
Unknown	123	51	2	11	187
Radiotherapy					
Without	346	158	25	20	549
With	947	300	30	16	1293
Unknown	123	51	2	11	187
Chemotherapy					
Without	966	235	28	30	1259
With	327	223	27	6	583
Unknown	123	51	2	11	187
Total	1416	509	57	47	2029

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) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
No treatment	10	8	3	3	24
B) Rad. alone	591	74	7	9	681
A) Surg. alone	308	126	17	16	467
F) (Rad.+Chem.)	263	132	17	4	416
AB) Surg.->Rad.	39	23	0	2	64
CF) Chem.->(Rad.+Chem.)	7	24	1	0	32
AF) Surg.->(Rad.+Chem.)	17	11	2	0	30
CA) Chem.->Surg.	13	8	2	0	23
FA) (Rad.+Chem.)->Surg.	8	9	1	0	18
C) Chem. alone	5	11	0	0	16
BA) Rad.->Surg.	9	2	0	0	11
FC) (Rad.+Chem.)->Chem.	3	5	1	0	9
CB) Chem.>Rad.	5	2	0	0	7
Others	15	23	4	2	44
Unknown	123	51	2	11	187
Total	1416	509	57	47	2029

NOS: not otherwise specified.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ----- 2029 Cases

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	13	498	420	193	53	2	27	1206
With	1	26	202	69	184	145	2	7	636
Unknown	1	2	34	12	9	7	1	121	187
Radiotherapy									
Without	1	25	182	62	153	119	0	7	549
With	0	14	518	427	224	79	4	27	1293
Unknown	1	2	34	12	9	7	1	121	187
Chemotherapy									
Without	1	37	657	232	182	127	4	19	1259
With	0	2	43	257	195	71	0	15	583
Unknown	1	2	34	12	9	7	1	121	187
Total	2	41	734	501	386	205	5	155	2029

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	0	8	7	8	0	1	24
B) Rad. alone	0	12	454	168	25	9	2	11	681
A) Surg. alone	1	24	178	41	127	90	0	6	467
F) (Rad.+Chem.)	0	1	36	212	133	20	0	14	416
AB) Surg.->Rad.	0	1	19	7	18	17	2	0	64
CF) Chem.->(Rad.+Chem.)	0	0	1	10	15	6	0	0	32
AF) Surg.->(Rad.+Chem.)	0	0	1	5	11	13	0	0	30
CA) Chem.->Surg.	0	1	0	1	10	11	0	0	23
FA) (Rad.+Chem.)->Surg.	0	0	0	7	7	4	0	0	18
C) Chem.alone	0	0	1	6	5	4	0	0	16
BA) Rad.->Surg.	0	0	3	3	2	2	0	1	11
FC) (Rad.+Chem.)->Chem.	0	0	0	3	3	2	0	1	9
CB) Chem.>Rad.	0	0	3	3	1	0	0	0	7
Others	0	0	4	15	13	12	0	0	44
Unknown	1	2	34	12	9	7	1	121	187
Total	2	41	734	501	386	205	5	155	2029

T-: without reported T classification.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ----- 2029 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	0	13	21	318	111	283	106	13	2	16	883
With	1	21	16	134	21	40	101	72	2	2	410
Unknown	0	1	4	15	8	8	4	5	1	77	123
Radiotherapy											
Without	1	20	15	120	20	30	86	53	0	1	346
With	0	14	22	332	112	293	121	32	4	17	947
Unknown	0	1	4	15	8	8	4	5	1	77	123
Chemotherapy											
Without	1	32	35	438	116	164	102	61	4	13	966
With	0	2	2	14	16	159	105	24	0	5	327
Unknown	0	1	4	15	8	8	4	5	1	77	123
Total	1	35	41	467	140	331	211	90	5	95	1416

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	0	0	0	0	0	3	4	3	0	0	10
B) Rad. alone	0	12	19	304	94	129	16	4	2	11	591
A) Surg. alone	1	19	15	118	18	24	70	42	0	1	308
F) (Rad.+Chem.)	0	1	1	11	13	146	80	6	0	5	263
AB) Surg.->Rad.	0	1	1	12	2	3	8	10	2	0	39
AF) Surg.->(Rad.+Chem.)	0	0	0	1	0	3	6	7	0	0	17
CA) Chem.->Surg.	0	1	0	0	0	0	7	5	0	0	13
BA) Rad.->Surg.	0	0	0	2	1	2	2	1	0	1	9
FA) (Rad.+Chem.)->Surg.	0	0	0	0	0	4	3	1	0	0	8
CF) Chem.->(Rad.+Chem.)	0	0	1	0	0	2	2	2	0	0	7
C) Chem. alone	0	0	0	0	1	1	3	0	0	0	5
CB) Chem.>Rad.	0	0	0	1	2	1	1	0	0	0	5
FC) (Rad.+Chem.)->Chem.	0	0	0	0	0	0	2	1	0	0	3
Others	0	0	0	3	1	5	3	3	0	0	15
Unknown	0	1	4	15	8	8	4	5	1	77	123
Total	1	35	41	467	140	331	211	90	5	95	1416

T-: without reported T classification.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ----- 2029 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	0	36	115	76	30	0	10	267
With	0	4	27	29	75	53	0	3	191
Unknown	1	1	2	4	5	2	0	36	51
Radiotherapy									
Without	0	4	24	28	53	45	0	4	158
With	0	0	39	116	98	38	0	9	300
Unknown	1	1	2	4	5	2	0	36	51
Chemotherapy									
Without	0	4	53	61	64	48	0	4	234
With	0	0	10	83	87	35	0	9	224
Unknown	1	1	2	4	5	2	0	36	51
Total	1	5	65	148	156	85	0	49	509

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	0	3	1	3	0	1	8
F) (Rad.+Chem.)	0	0	10	54	50	10	0	8	132
A) Surg. alone	0	4	24	16	46	33	0	3	126
B) Rad. alone	0	0	26	35	8	5	0	0	74
CF) Chem.->(Rad.+Chem.)	0	0	0	8	12	4	0	0	24
AB) Surg.->Rad.	0	0	3	4	10	6	0	0	23
AF) Surg.->(Rad.+Chem.)	0	0	0	2	5	4	0	0	11
C) Chem. alone	0	0	0	5	2	4	0	0	11
FA) (Rad.+Chem.)->Surg.	0	0	0	2	4	3	0	0	9
CA) Chem.->Surg.	0	0	0	1	3	4	0	0	8
FC) (Rad.+Chem.)->Chem.	0	0	0	3	1	0	0	1	5
AC) Surg.->Chem.	0	0	0	1	2	0	0	0	3
BC) Rad.->Chem.	0	0	0	2	0	1	0	0	3
CAB) Chem.->Surg.->Rad.	0	0	0	0	3	0	0	0	3
Others	0	0	0	8	4	6	0	0	18
Unknown	1	1	2	4	5	2	0	36	51
Total	1	5	65	148	156	85	0	49	509

T-: without reported T classification.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ——— 2029 Cases

Subglottic 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	3	18	3	5	0	1	30
With	0	1	1	2	7	13	0	1	25
Unknown	0	0	0	0	0	0	0	2	2
Radiotherapy									
Without	0	1	1	3	7	12	0	1	25
With	0	0	3	17	3	6	0	1	30
Unknown	0	0	0	0	0	0	0	2	2
Chemotherapy									
Without	0	1	4	6	7	9	0	1	0
With	0	0	0	14	3	9	0	1	27
Unknown	0	0	0	0	0	0	0	2	2
Total	0	1	4	20	10	18	0	4	57

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	2	0	1	0	0	3
A) Surg. alone	0	1	1	0	6	8	0	1	17
B) Rad. alone	0	0	3	4	0	0	0	0	7
F) (Rad.+Chem.)	0	0	0	11	2	3	0	1	17
CA) Chem.->Surg.	0	0	0	0	0	2	0	0	2
Others	0	0	0	3	2	4	0	0	9
Unknown	0	0	0	0	0	0	0	2	2
Total	0	1	4	20	10	18	0	4	57

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the larynx ----- 2029Cases

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	9	1	4	2	0	0	16
With	0	0	3	1	5	10	0	1	20
Unknown	0	0	5	0	0	0	0	6	11
Radiotherapy									
Without	0	0	2	1	7	9	0	1	20
With	0	0	10	1	2	3	0	0	16
Unknown	0	0	5	0	0	0	0	6	11
Chemotherapy									
Without	0	0	11	1	8	9	0	1	30
With	0	0	1	1	1	3	0	0	6
Unknown	0	0	5	0	0	0	0	6	11
Total	0	0	17	2	9	12	0	7	47

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	0	0	2	1	0	0	3
A) Surg. alone	0	0	2	1	5	7	0	1	16
F) (Rad.+Chem.)	0	0	1	1	1	1	0	0	4
B) Rad. alone	0	0	8	0	1	0	0	0	9
Others	0	0	1	0	0	3	0	0	4
Unknown	0	0	5	0	0	0	0	6	11
Total	0	0	17	2	9	12	0	7	47

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 ----- 2029 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method		Glottis (C32.0)	Supra- glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
X0)	No surgery	893	267	30	16	1206
G5)	Total laryngectomy	152	127	22	15	316
G2)F2)	Transoral resection	153	26	1	1	181
G1)F1)	Endoscopic resection	46	15	1	1	63
G3)	Partial laryngectomy	18	6	1	3	28
G4)	Subtotal laryngectomy	18	0	0	0	18
F5)	Total pharyngolaryngectomy	2	7	0	0	9
F6)	Total laryngopharyngo- esophagectomy	0	7	0	0	7
F4)	Total laryngectomy +Partial pharyngectomy	1	0	0	0	1
G9)X9)+	Laryngectomy, other type, Others	10	2	0	0	12
	Unknown	123	52	2	11	188
Total		1416	509	57	47	2029

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	13	498	420	193	53	2	27	1206
G5)	Total laryngectomy	0	1	2	23	154	132	0	4	316
G2)F2)	Transoral resection	0	19	137	15	5	1	1	3	181
G1)F1)	Endoscopic resection	1	5	48	9	0	0	0	0	63
G3)	Partial laryngectomy	0	0	11	8	8	1	0	0	28
G4)	Subtotal laryngectomy	0	0	1	7	9	1	0	0	18
F5)	Total pharyngolaryngectomy	0	0	0	0	3	6	0	0	9
F6)	Total laryngopharyngo- esophagectomy	0	0	0	1	4	2	0	0	7
F4)	Total laryngectomy +Partial pharyngectomy	0	0	0	0	0	1	0	0	1
G9)X0)	Laryngectomy, other type, Others	0	1	3	5	1	1	1	0	12
	Unknown	1	2	34	13	9	7	1	121	188
Total		2	41	734	501	386	205	5	155	2029

T-: without reported T classification.

Carcinoma of the Larynx ----- 2029 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	0	13	450	286	110	16	2	16	893
G2)F2) Transoral resection	0	17	121	9	3	1	1	1	153
G5) Total laryngectomy	0	0	0	7	80	64	0	1	152
G1)F1) Endoscopic resection	1	3	37	5	0	0	0	0	46
G4) Subtotal laryngectomy	0	0	1	7	9	1	0	0	18
G3) Partial laryngectomy	0	0	9	5	4	0	0	0	18
F5) Total pharyngolaryngectomy	0	0	0	0	0	2	0	0	2
F4) Total laryngectomy +Partial pharyngectomy	0	0	0	0	0	1	0	0	1
G9)X9) Laryngectomy, other type, Others	0	1	3	4	1	0	0	1	10
Unknown	0	1	27	8	4	5	1	77	123
Total	1	35	648	331	211	90	4	96	1416

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	0	36	115	76	30	0	10	267
G5) Total laryngectomy	0	1	0	15	64	46	0	1	127
G2)F2) Transoral resection	0	1	15	6	2	0	0	2	26
G1) Endoscopic resection	0	2	10	3	0	0	0	0	15
F5) Total pharyngolaryngectomy	0	0	0	0	3	4	0	0	7
F6) Total laryngopharyngo- esophagectomy	0	0	0	1	4	2	0	0	7
G3) Partial laryngectomy	0	0	2	2	2	0	0	0	6
E9) Resection of the oropharynx, other type	0	0	0	1	0	1	0	0	2
Unknown	1	1	2	5	5	2	0	36	52
Total	1	5	65	148	156	85	0	49	509

T-: without reported T classification.

Carcinoma of the Larynx ----- 2029 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	3	18	3	5	0	1	30
G5)	Total laryngectomy	0	0	1	1	6	13	0	1	22
G1)	Endoscopic resection	0	0	0	1	0	0	0	0	1
G2)	Transoral resection	0	1	0	0	0	0	0	0	1
G3)	Partial laryngectomy	0	0	0	0	1	0	0	0	1
	Unknown	0	0	0	0	0	0	0	2	2
Total		0	1	4	20	10	18	0	4	57

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	9	1	4	2	0	0	16
G5)	Total laryngectomy	0	0	1	0	4	9	0	1	15
G3)	Partial laryngectomy	0	0	0	1	1	1	0	0	3
G1)	Endoscopic resection	0	0	1	0	0	0	0	0	1
G2)	Transoral resection	0	0	1	0	0	0	0	0	1
	Unknown	0	0	5	0	0	0	0	6	11
Total		0	0	17	2	9	12	0	7	47

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the larynx ----- 2029 Cases

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Glottis (C32.0)	Supra- glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Surgery					
Without	1162	302	38	27	1529
With	130	155	17	9	311
Unknown	124	52	2	11	189
Radiotherapy					
Without	1104	262	42	27	1435
With	188	195	13	9	405
Unknown	124	52	2	11	189
Chemotherapy					
Without	1177	290	42	29	1538
With	115	167	13	7	302
Unknown	124	52	2	11	189
Total	1416	509	57	47	2029

NOS: not otherwise specified.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Glottis (C32.0)	Supra- glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No N.D.	1163	302	38	27	1530
1) Total N.D.	36	49	4	1	90
2) Selective N.D.	88	104	12	8	212
3) Lymph node excision	3	0	1	0	4
8) Others	0	1	0	0	1
9) Unknown type	2	1	0	0	3
Unknown	124	52	2	11	189
Total	1416	509	57	47	2029

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Larynx ----- 2029 Cases

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Glottis (C32.0)	Supra- glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No N.D.	1217	357	43	33	1650
1) Total N.D.	14	19	3	1	37
2) Selective N.D.	58	80	9	2	149
3) Lymph node excision	1	0	0	0	1
Unknown	126	53	2	11	192
Total	1416	509	57	47	2029

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	1265	417	51	35	1768
B) Free jejunal flap	5	16	0	0	21
5) PM MC flap	1	4	3	0	8
2) Local skin flap	6	0	0	0	6
D) Free RA MC flap	0	6	0	0	6
4) DP flap	4	1	0	0	5
E) Free ALT flap	0	5	0	0	5
C) Free FA flap	1	1	0	0	2
7) Gastric pull up	1	0	0	0	1
8) Others	0	3	0	0	3
Unknown	133	56	3	12	204
Total	1416	509	57	47	2029

NOS: not otherwise specified.

PM: pectoralis major.

MC: musculocutaneous.

RA: rectus abdominis.

DP: deltopectoral.

ALT: anterolateral thigh.

FA: forearm.

Carcinoma of the Larynx ----- 2029 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	338	154	24	19	535
1) X-ray (and/or electron beam)	928	301	30	17	1276
2) Particle beam	2	0	0	0	2
8) Others	1	1	0	0	2
4) X-ray+Particle beam	1	0	0	0	1
Unknown type	23	2	1	0	26
9) Unknown	123	51	2	11	187
Total	1416	509	57	47	2029

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No chemotherapy	957	234	27	27	1245
1) I.V.	249	181	22	6	458
3) Oral	65	19	5	1	90
5) I.V.+Oral	6	16	1	2	25
2) I.A.	6	2	0	0	8
4) I.V.+I.A.	1	0	0	0	1
Unknown route	8	5	0	0	13
9) Unknown	124	52	2	11	189
Total	1416	509	57	47	2029

NOS: not otherwise specified.

I.V.: Intravenous.

I.A.: intraarterial.

Hypopharynx (2014)

1902 Cases

Carcinoma of the Hypopharynx ----- 1902 Cases

Subsite

Subsite	Number of patients (%)	
Posterior wall	148	(7.8)
Pyramidal sinus	1352	(71.1)
Posterior wall	301	(15.8)
Hypopharynx, NOS	101	(5.3)
Total	1902	(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	0	0	0
30 - 39	7	3	10
40 - 49	54	16	70
50 - 59	228	20	248
60 - 69	700	61	761
70 - 79	622	36	658
80 - 89	138	12	150
90 - 99	4	1	5
Total	1753	149	1902

Carcinoma of the Hypopharynx ----- 1902 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	1	2
40 - 49	4	1	5
50 - 59	16	4	20
60 - 69	51	7	58
70 - 79	44	4	48
80 - 89	14	1	15
90 - 99	0	0	0
Total	130	18	148

Pyriform Sinus**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	4	2	6
40 - 49	40	11	51
50 - 59	175	10	185
60 - 69	519	32	551
70 - 79	446	15	461
80 - 89	90	6	96
90 - 99	2	0	2
Total	1276	76	1352

Carcinoma of the Hypopharynx ----- 1902 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	2	0	2
40 - 49	4	2	6
50 - 59	32	5	37
60 - 69	91	17	108
70 - 79	106	14	120
80 - 89	23	4	27
90 - 99	0	1	1
Total	258	43	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	6	2	8
50 - 59	5	1	6
60 - 69	39	5	44
70 - 79	26	3	29
80 - 89	11	1	12
90 - 99	2	0	2
Total	89	12	101

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 1902 Cases

Histological Distribution by Subsite

Histologic type	Postcricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypophar- ynx, NOS (C13.9)	Total
Adenocarcinoma, NOS	0	2	0	1	3
Adenoid cystic ca.	0	0	0	1	1
Adenosquamous ca.	0	3	1	0	4
Basaloid S.C.C.	4	6	0	0	10
Ca, NOS	1	5	0	1	7
Ca., undiff., NOS	0	2	0	0	2
Carcinosarcoma, NOS	0	0	1	0	1
Leiomyosarcoma, NOS	0	1	0	0	1
Liposarcoma, NOS	0	1	0	0	1
Lymphoepithelial ca.	0	2	0	1	3
Mucoepidermoid ca.	0	1	1	0	2
Small cell ca., NOS	0	2	0	0	2
Spindle cell ca., NOS	1	2	0	0	3
S.C.C. in situ with quest. stromal invasion	0	2	1	0	3
S.C.C. in situ, NOS	7	52	20	2	81
S.C.C. kerat., NOS	7	33	7	2	49
S.C.C. large cell, nonkerat.	2	2	0	1	5
S.C.C. microinvasive	3	25	3	1	32
S.C.C., NOS	123	1207	267	91	1688
S.C.C. small cell, nonkerat.	0	4	0	0	4
Total	148	1352	301	101	1902

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	0	0	0	0	0	0	0	0	0	0
Tis	71	1	0	0	0	0	0	0	0	72
T1	184	13	2	10	33	5	11 (3)	1	2	261
T2	263	77 (1)	7 (1)	10	176 (5)	52 (3)	19 (2)	0	0	604
T3	120	43	1	5	126 (6)	85 (10)	15 (2)	0	1	396
T4	1	2	2	2 (1)	4	5 (1)	5 (1)	0	0	21
T4a	46 (2)	39 (1)	1 (1)	6	152 (9)	85 (8)	12 (1)	1	1 (1)	343
T4b	12	2	0	1	11	22 (4)	3 (1)	0	0	51
TX	0	0	0	1	0	0	0	2	0	3
T-	3	3	0	0	3 (1)	0	0	0	142	151
Total	700	180	13	35	505	254	65	4	146	1902

M1: 65 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Hypopharynx ----- 1902 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	5	0	0	0	0	0	0	0	0	5
T1	12	0	0	0	0	0	1 (1)	0	0	13
T2	32	5	0	0	10	6 (1)	1 (1)	0	0	54
T3	9	4	0	0	9 (2)	16	1	0	0	39
T4	0	0	0	0	1	0	0	0	0	1
T4a	5	4 (1)	0	1	5	4	0	1	0	20
T4b	1	1	0	0	0	5	0	0	0	7
TX	0	0	0	0	0	0	0	1	0	1
T-	1	0	0	0	0	0	0	0	7	8
Total	65	14	0	1	25	31	3	2	7	148

M1: 6 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Pyramiform 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	51	1	0	0	0	0	0	0	0	52
T1	121	11	2	9	27	3	7 (2)	1	1	182
T2	182	62	5	8	135 (5)	33 (2)	17 (1)	0	0	442
T3	71	27	0	4	105 (3)	44 (8)	12 (2)	0	0	263
T4	1	1	2	1	3	5 (1)	3 (1)	0	0	16
T4a	34 (2)	30	1 (1)	4	128 (9)	59 (3)	11 (1)	0	0	267
T4b	3	0	0	1	6	10 (3)	2 (1)	0	0	22
TX	0	0	0	1	0	0	0	1	0	2
T-	2	3	0	0	2	0	0	0	99	106
Total	465	135	10	28	406	154	52	2	100	1352

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

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Hypopharynx ----- 1902 Cases

Posterior Wall

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	13	0	0	0	0	0	0	0	0	13
T1	42	1	0	1	5	2	1	0	1	53
T2	42	6	0	2	24	12	1	0	0	87
T3	32	9	0	1	8 (1)	21 (2)	2	0	0	73
T4	0	1	0	1 (1)	0	0	1	0	0	3
T4a	3	3	0	1	11	16 (4)	0	0	1 (1)	35
T4b	6	1	0	0	4	6 (1)	0	0	0	17
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	1 (1)	0	0	0	19	20
Total	138	21	0	6	53	57	5	0	21	301

M1: 11 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
T0	0	0	0	0	0	0	0	0	0	0
Tis	2	0	0	0	0	0	0	0	0	2
T1	9	1	0	0	1	0	2	0	0	13
T2	7	4 (1)	2 (1)	0	7	1	0	0	0	21
T3	8	3	1	0	4	4	0	0	1	21
T4	0	0	0	0	0	0	1	0	0	1
T4a	4	2	0	0	8	6 (1)	1	0	0	21
T4b	2	0	0	0	1	1	1	0	0	5
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	17	17
Total	32	10	3	0	21	12	5	0	18	101

NOS: not otherwise specified.

M1: 3 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Hypopharynx ——— 1902 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Postcricoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
Without	73	697	161	41	972
With	67	515	117	43	742
Unknown	8	140	23	17	188
Radiotherapy					
Without	56	394	107	38	595
With	84	818	171	46	1119
Unknown	8	140	23	17	188
Chemotherapy					
Without	59	497	112	46	714
With	81	715	166	38	1000
Unknown	8	140	23	17	188
Total	148	1352	301	101	1902

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Postcricoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
Without	93	802	207	45	1147
With	47	408	71	39	565
Unknown	8	142	23	17	190
Radiotherapy					
Without	69	524	133	47	773
With	71	686	145	37	939
Unknown	8	142	23	17	190
Chemotherapy					
Without	72	595	135	54	856
With	68	615	143	30	856
Unknown	8	142	23	17	190
Total	148	1352	301	101	1902

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 1902 Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
No treatment	4	24	4	4	36
F) (Rad.+Chem.)	36	382	91	15	524
A) Surg. alone	35	290	79	28	432
B) Rad. alone	12	114	18	12	156
CF) Chem.->(Rad.+Chem.)	9	98	26	5	138
AB) Surg.->Rad.	7	57	8	2	74
AF) Surg.->(Rad.+Chem.)	8	54	3	5	70
CA) Chem.->Surg.	8	32	11	3	54
C) Chem. alone	7	29	8	3	47
CAB) Chem.->Surg.->Rad.	4	14	6	3	27
CAF) Chem.->Surg.->(Rad.+Chem.)	1	22	2	0	25
FA) (Rad.+Chem.)->Surg.	1	18	2	1	22
CB) Chem.->Rad.	1	13	3	1	18
FC) (Rad.+Chem.)->Chem.	2	8	6	1	17
CCF) Chem.->Chem.->(Rad.+Chem.)	1	7	1	0	9
CFC) Chem.->(Rad.+Chem.)->Chem.	0	6	1	0	7
BA) Rad.->Surg.	1	6	0	0	7
AC) Surg.->Chem.	0	5	1	0	6
CAC) Chem.->Surg.->Chem.	1	4	0	0	5
CC) Chem.->Chem.	0	4	1	0	5
Others	2	25	7	1	35
Unknown	8	140	23	17	188
Total	148	1352	301	101	1902

Carcinoma of the Hypopharynx ----- 1902 Cases

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	8	108	411	219	209	1	16	972
With	0	60	142	171	163	195	2	9	742
Unknown	0	4	11	22	14	11	0	126	188
Radiotherapy									
Without	0	59	136	140	121	130	1	8	595
With	0	9	114	442	261	274	2	17	1119
Unknown	0	4	11	22	14	11	0	126	188
Chemotherapy									
Without	0	64	178	202	131	126	3	10	714
With	0	4	72	380	251	278	0	15	1000
Unknown	0	4	11	22	14	11	0	126	188
Total	0	72	261	604	396	415	3	151	1902

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	1	3	4	14	13	1	0	36
F) (Rad.+Chem)	0	2	51	258	113	92	0	8	524
A) Surg. alone	0	57	125	106	72	67	0	5	432
B) Rad. alone	0	5	41	70	21	16	0	3	156
CF) Chem.->(Rad.+Chem.)	0	0	7	40	51	39	0	1	138
AB) Surg.->Rad.	0	1	5	16	23	25	2	2	74
AF) Surg.->(Rad.+Chem.)	0	1	5	15	13	34	0	2	70
CA) Chem.->Surg.	0	1	1	8	25	19	0	0	54
C) Chem. alone	0	0	2	13	4	25	0	3	47
CAB) Chem.->Surg.->Rad.	0	0	0	3	13	11	0	0	27
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	8	17	0	0	25
FA) (Rad.+Chem.)->Surg.	0	0	1	7	2	12	0	0	22
CB) Chem.->Rad.	0	0	1	4	6	6	0	1	18
FC) (Rad.+Chem.)->Chem.	0	0	1	5	5	6	0	0	17
CCF) Chem.->Chem.->(Rad.+Chem.)	0	0	0	5	1	3	0	0	9
CFC) Chem.->(Rad.+Chem.)->Chem.	0	0	0	5	0	2	0	0	7
BA) Rad.->Surg.	0	0	0	3	0	4	0	0	7
AC) Surg.->Chem.	0	0	1	2	3	0	0	0	6
Others	0	0	6	18	8	13	0	0	45
Unknown	0	4	11	22	14	11	0	126	188
Total	0	72	261	604	396	415	3	151	1902

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ——— 1902 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	4	37	18	12	0	2	73
With	0	5	9	15	20	16	1	6	72
Unknown	0	0	0	2	1	0	0	0	3
Radiotherapy									
Without	0	5	7	14	10	18	0	2	56
With	0	0	6	38	28	10	1	6	89
Unknown	0	0	0	2	1	0	0	0	3
Chemotherapy									
Without	0	5	8	20	10	14	1	1	59
With	0	0	5	32	28	14	0	7	86
Unknown	0	0	0	2	1	0	0	0	3
Total	0	5	13	54	39	28	1	8	148

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	0	1	3	0	0	4
F) (Rad.+Chem.)	0	0	2	21	8	4	0	1	36
A) Surg. alone	0	5	6	10	4	9	0	1	35
B) Rad. alone	0	0	1	8	3	0	0	0	12
CF) Chem.->(Rad.+Chem.)	0	0	0	3	4	2	0	0	9
AF) Surg.->(Rad.+Chem.)	0	0	2	1	5	0	0	0	8
CA) Chem.->Surg.	0	0	0	1	4	3	0	0	8
AB) Surg.->Rad.	0	0	1	2	2	1	1	0	7
C) Chem. Alone	0	0	1	2	1	2	0	1	7
CAB) Chem.->Surg.->Rad.	0	0	0	0	4	0	0	0	4
Others	0	0	0	4	2	4	0	0	10
Unknown	0	0	0	2	1	0	0	5	8
Total	0	5	13	54	39	28	1	8	148

T-: without reported T classification.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 1902 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	6	81	304	149	145	1	11	697
With	0	42	93	119	102	150	1	8	515
Unknown	0	4	8	19	12	10	0	87	140
Radiotherapy									
Without	0	40	89	94	76	88	1	6	394
With	0	8	85	329	175	207	1	13	818
Unknown	0	4	8	19	12	10	0	87	140
Chemotherapy									
Without	0	44	120	145	88	90	2	8	497
With	0	4	54	278	163	205	0	11	715
Unknown	0	4	8	19	12	10	0	87	140
Total	0	52	182	442	263	305	2	106	1352

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	3	3	10	7	1	0	24
F) (Rad.+Chem)	0	2	40	192	77	66	0	5	382
A) Surg. alone	0	39	80	74	46	47	0	4	290
B) Rad. alone	0	4	30	55	14	9	0	2	114
CF) Chem.->(Rad.+Chem.)	0	0	4	28	34	31	0	1	98
AB) Surg.->Rad.	0	1	3	10	17	23	1	2	57
AF) Surg.->(Rad.+Chem.)	0	1	3	13	6	29	0	2	54
CA) Chem.->Surg.	0	1	1	5	12	13	0	0	32
C) Chem. alone	0	0	0	7	2	18	0	2	29
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	7	15	0	0	22
FA) (Rad.+Chem.)->Surg.	0	0	1	7	1	9	0	0	18
CAB) Chem.->Surg.->Rad.	0	0	0	0	7	7	0	0	14
CB) Chem.->Rad.	0	0	1	3	5	3	0	1	13
FC) (Rad.+Chem.)->Chem.	0	0	1	3	2	2	0	0	8
CCF) Chem.->Chem.->(Rad.+Chem.)	0	0	0	4	1	2	0	0	7
BA) Rad.->Surg.	0	0	0	3	0	3	0	0	6
CFC) Chem.->(Rad.+Chem.)->Chem.	0	0	0	4	0	2	0	0	6
AC) Surg.->Chem.	0	0	1	1	3	0	0	0	5
Others	0	0	3	11	10	9	0	0	33
Unknown	0	4	8	19	12	10	0	87	140
Total	0	52	182	442	263	305	2	106	1352

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 1902 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	1	16	60	44	38	0	2	161
With	0	12	35	26	28	16	0	0	117
Unknown	0	0	2	1	1	1	0	18	23
Radiotherapy									
Without	0	13	35	23	25	11	0	0	107
With	0	0	16	63	47	43	0	2	171
Unknown	0	0	2	1	1	1	0	18	23
Chemotherapy									
Without	0	13	40	27	21	11	0	0	112
With	0	0	11	59	51	43	0	2	166
Unknown	0	0	2	1	1	1	0	18	23
Total	0	13	53	87	73	55	0	20	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	1	0	1	1	1	0	0	4
F) (Rad.+Chem.)	0	0	8	40	23	18	0	2	91
A) Surg. alone	0	12	34	14	14	5	0	0	79
CF) Chem.->(Rad.+Chem.)	0	0	2	7	12	5	0	0	26
B) Rad. alone	0	0	5	5	4	4	0	0	18
CA) Chem.->Surg.	0	0	0	2	9	0	0	0	11
AB) Surg.->Rad.	0	0	1	4	2	1	0	0	8
C) Chem. Alone	0	0	1	3	1	3	0	0	8
CAB) Chem.->Surg.->Rad.	0	0	0	1	1	4	0	0	6
CB) Chem.->Rad.	0	0	0	1	1	1	0	0	3
AF) Surg.->(Rad.+Chem.)	0	0	0	0	0	3	0	0	3
FC) (Rad.+Chem.)->Chem.	0	0	0	1	2	3	0	0	6
Others	0	0	0	7	2	6	0	0	15
Unknown	0	0	2	1	1	1	0	18	23
Total	0	13	53	87	73	55	0	20	301

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 1902 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	7	10	8	14	0	1	41
With	0	1	5	11	13	13	0	0	43
Unknown	0	0	1	0	0	0	0	16	17
Radiotherapy									
Without	0	1	5	9	10	13	0	0	38
With	0	1	7	12	11	14	0	1	46
Unknown	0	0	1	0	0	0	0	16	17
Chemotherapy									
Without	0	2	10	10	12	11	0	1	46
With	0	0	2	11	9	16	0	0	38
Unknown	0	0	1	0	0	0	0	16	17
Total	0	2	13	21	21	27	0	17	101

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	0	2	2	0	0	4
A) Surg. alone	0	1	5	8	8	6	0	0	28
B) Rad. alone	0	1	5	2	0	3	0	1	12
F) (Rad.+Chem.)	0	0	1	5	5	4	0	0	15
CF) Chem.->(Rad.+Chem.)	0	0	1	2	1	1	0	0	5
C) Chem. alone	0	0	0	1	0	2	0	0	3
AF) Surg.->(Rad.+Chem.)	0	0	0	1	2	2	0	0	5
CA) Chem.->Surg.	0	0	0	0	0	3	0	0	3
CAB) Chem.->Surg.->Rad.	0	0	0	2	1	0	0	0	3
Others	0	0	0	0	2	4	0	0	6
Unknown	0	0	1	0	0	0	0	16	17
Total	0	2	13	21	21	27	0	17	101

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 Hypopharynx ----- 1902 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method	Posterioricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypophar- ynx, NOS (C13.9)	Total
X0) No surgery	73	697	161	41	972
F5) Total pharyngolaryngectomy	25	163	28	11	227
F2)G2) Transoral resection	15	106	39	5	165
F1)G1) Endoscopic resection	8	95	21	7	131
F6) Total pharyngolaryngo- esophagectomy	7	87	15	12	121
F3) Partial hypopharyngectomy	1	23	6	3	33
F4) Total laryngectomy +Partial pharyngectomy	5	16	1	0	22
F7) Hypopharyngectomy +Cervical esophagectomy	2	13	3	3	21
G5) Total laryngectomy	4	2	0	1	7
F9)+ Others	0	8	4	1	13
Unknown	8	142	23	17	190
Total	148	1352	301	101	1902

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	8	108	411	219	209	1	16	972
F5) Total pharyngolaryngectomy	0	0	2	42	77	103	1	2	227
F2)G2) Transoral resection	0	32	58	56	14	3	1	1	165
F1)G1) Endoscopic resection	0	26	74	22	3	0	0	6	131
F6) Total pharyngolaryngo- esophagectomy	0	1	1	12	42	65	0	0	121
F3) Partial hypopharyngectomy	0	0	5	21	7	0	0	0	33
F4) Total laryngectomy +Partial pharyngectomy	0	0	0	7	5	10	0	0	22
F7) Hypopharyngectomy +Cervical esophagectomy	0	0	0	2	9	10	0	0	21
G5) Total laryngectomy	0	0	0	3	4	0	0	0	7
F9)+ Others	0	1	2	4	2	4	0	0	13
Unknown	0	4	11	24	14	11	0	126	190
Total	0	72	261	604	396	415	3	151	1902

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 1902 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	4	37	18	12	0	2	73
F5)	Total pharyngolaryngectomy	0	0	0	2	12	10	0	1	25
F2)G2)	Transoral resection	0	4	6	5	0	0	0	0	15
F1)G1)	Endoscopic resection	0	1	3	3	0	0	0	1	8
F6)	Total pharyngolaryngo- esophagectomy	0	0	0	0	2	5	0	0	7
F4)	Total laryngectomy +Partial pharyngectomy	0	0	0	2	3	0	0	0	5
G5)	Total laryngectomy	0	0	0	2	2	0	0	0	4
F3)F7)	Others	0	0	0	1	1	1	0	0	3
	Unknown	0	0	0	2	1	0	0	5	8
Total		0	5	13	54	39	28	0	9	148

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	6	81	304	149	145	1	11	697
F5)	Total pharyngolaryngectomy	0	0	2	31	50	78	0	2	163
F2)	Transoral resection	0	20	34	39	8	3	1	1	106
F1)G1)	Endoscopic resection	0	21	53	14	2	0	0	5	95
F6)	Total pharyngolaryngo- esophagectomy	0	1	0	6	29	51	0	0	87
F3)	Partial pharyngectomy	0	0	4	16	3	0	0	0	23
F4)	Total laryngectomy +Partial pharyngectomy	0	0	0	5	2	9	0	0	16
F7)	Hypopharyngectomy +Cervical esophagectomy	0	0	0	1	5	7	0	0	13
G5)	Total laryngectomy	0	0	0	1	1	0	0	0	2
F9)+	Others	0	0	0	4	2	2	0	0	8
	Unknown	0	4	8	21	12	10	0	87	142
Total		0	52	182	442	263	305	2	106	1352

T-: without reported T classification.

Carcinoma of the Hypopharynx — 1902 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	1	16	60	44	38	0	2	161
F2)	Transoral resection	0	8	16	11	4	0	0	0	39
F5)	Total pharyngolaryngectomy	0	0	0	6	12	10	0	0	28
F1)	Endoscopic resection	0	3	15	2	1	0	0	0	21
F6)	Total pharyngolaryngo- esophagectomy	0	0	1	4	7	3	0	0	15
F3)	Partial pharyngectomy	0	0	1	3	2	0	0	0	6
F7)	Hypopharyngectomy +Cervical esophagectomy	0	0	0	0	2	1	0	0	3
F9)+	Others	0	1	2	0	0	2	0	0	5
	Unknown	0	0	2	1	1	1	0	18	23
Total		0	13	53	87	73	55	0	20	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	7	10	8	14	0	1	41
F6)	Total pharyngolaryngo- esophagectomy	0	0	0	2	4	6	0	0	12
F5)	Total pharyngolaryngectomy	0	0	0	3	3	5	0	0	11
F1)	Endoscopic resection	0	1	3	3	0	0	0	0	7
F2)	Transoral resection	0	0	2	1	2	0	0	0	5
F3)	Partial pharyngectomy	0	0	0	1	2	0	0	0	3
F7)	Hypopharyngectomy +Cervical esophagectomy	0	0	0	1	1	1	0	0	3
F9)+	Others	0	0	0	0	1	1	0	0	2
	Unknown	0	0	1	0	0	0	0	16	17
Total		0	2	13	21	21	27	0	17	101

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 1902 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	93	803	208	45	1149
1) Total N.D.	20	134	22	11	187
2) Selective N.D.	26	271	48	27	372
3) Lymph node excision	0	0	0	0	0
Unknown type	1	2	0	1	4
9) Unknown	8	142	23	17	190
Total	148	1352	301	101	1902

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)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	98	953	227	57	1335
1) Total N.D.	12	41	13	6	72
2) Selective N.D.	29	212	38	20	299
3) Lymph node excision	0	1	0	0	1
Unknown type	1	3	0	1	5
9) Unknown	8	142	23	17	190
Total	148	1352	301	101	1902

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

Carcinoma of the Hypopharynx ----- 1902 Cases

Reconstructive Surgery by Subsite

Reconstructive surgery	Postericoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No reconstruction	102	912	224	54	1292
B) Free jejunal flap	29	241	43	24	337
C) Free FA flap	1	14	3	1	19
7) Gastric pull-up	2	12	2	1	17
5) PM MC flap	3	6	2	0	11
E) Free ALT flap	0	6	1	0	7
4) DP flap	1	1	0	1	3
2) Local skin flap	0	2	0	0	2
A) Pedicle colon	0	1	1	0	2
D) Free RA MC flap	0	2	0	0	2
3) Mucosal flap	0	1	0	0	1
8) Others	1	0	0	2	3
Unknown	9	154	25	18	206
Total	148	1352	301	101	1902

NOS: not otherwise specified.

MC: musculocutaneous.

RA: rectus abdominis.

FA: forearm.

ALT: anterolateral thigh.

PM: pectoralis major.

DP: deltopectoral.

Carcinoma of the Hypopharynx ----- 1902 Cases

Radiotherapy by Subsite

Type of radiotherapy	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No radiotherapy	53	382	106	37	578
1) X-ray (and/or electron beam)	87	812	170	47	1116
8) Others	0	1	1	0	2
Unknown type	0	16	1	0	17
9) Unknown	8	141	23	17	189
Total	148	1352	301	101	1902

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No chemotherapy	57	482	111	46	696
1) I.V.	70	634	147	31	882
5) I.V. + Oral	3	37	10	3	53
3) Oral	6	33	6	3	48
2) I.A.	1	8	2	1	12
Unknow route	3	17	2	0	22
9) Unknown	8	141	23	17	189
Total	148	1352	301	101	1902

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Oropharynx (2014)

1569 Cases

Carcinoma of the Oropharynx ——— 1569 Cases

Subsite

Subsite	Number of patients (%)	
Superior wall	142	(9.0)
Lateral wall	879	(56.0)
Posterior wall	110	(7.0)
Anterior wall	365	(23.3)
Oropharynx, NOS	73	(4.7)
Total	1569	(100)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	3	1	4
30 - 39	13	7	20
40 - 49	90	22	112
50 - 59	200	59	259
60 - 69	499	100	599
70 - 79	387	58	445
80 - 89	94	25	119
90 - 99	8	3	11
Total	1294	275	1569

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
Tis	33	0	0	0	0	0	0	0	0	33
T0	1	0	0	0	2	0	0	0	0	3
T1	148	18 ⁽¹⁾	0	20	65 ⁽²⁾	7	4	1	0	263
T2	187	70 ⁽²⁾	2	29	193 ⁽³⁾	52 ⁽⁵⁾	14 ⁽¹⁾	1	2	550
T3	68 ⁽²⁾	30	2	4	78 ⁽⁴⁾	49 ⁽⁵⁾	5	1	1	238
T4	6	1	4 ⁽²⁾	0	1	3	0	0	0	15
T4a	52 ⁽²⁾	19	1	1	72 ⁽²⁾	91 ⁽¹¹⁾	11	0	1 ⁽¹⁾	248
T4b	3	3	0	2	24 ⁽⁴⁾	30 ⁽²⁾	5	0	1	68
TX	0	0	0	1	3	0	0	3	1	8
T-	0	0	0	0	1	0	0	0	142	143
Total	498	141	9	57	439	232	39	6	148	1569

M1: 49 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 ——— 1569 Cases

Histological Distribution by Subsite

Histologic type	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Acinar cell ca.	1	0	0	0	0	1
Adenocarcinoma, NOS	1	2	0	4	0	7
Adenoid cystic ca.	8	1	0	11	3	23
Adenosquamous ca.	0	1	0	1	0	2
Basal cell adenocarcinoma	0	1	0	0	0	1
Basaloid S.C.C.	0	2	0	0	1	3
Carcinoid tumor, NOS	0	1	0	1	0	2
Ca. ex pleomorphic adenoma	0	1	0	0	0	1
Ca., NOS	0	3	1	0	0	4
Ca., undiff., NOS	0	1	0	0	0	1
Carcinosarcoma, NOS	0	1	0	0	0	1
Epithelial-myoepithelial ca.	1	0	0	0	0	1
Leiomyosarcoma	1	0	2	0	0	3
Liposarcoma, NOS	0	1	0	0	0	1
Lymphoepithelial ca.	0	8	0	1	0	9
Malig. Lymphoma, NOS	0	8	0	2	0	10
Mucoepidermoid ca.	1	2	0	9	1	13
Myoepithelial ca.	2	0	0	0	1	3
Neoplasm, malig.	1	2	0	1	1	5
Papillary cystadenocarcinoma	0	1	0	0	0	1
Plasmacytoma, NOS	0	0	0	1	0	1
Pleomorphic carcinoma	0	1	0	0	0	1
Polymorphous low grade adenocarcinoma	1	0	0	0	0	1
Salivary duct ca.	0	1	0	0	0	1
Small cell ca., NOS	0	1	0	1	0	2
Spindle cell ca., NOS	1	3	0	1	0	5
S.C.C. in situ with quest. stromal invasion	1	0	0	0	0	1
S.C.C. in situ, NOS	7	8	13	9	0	37
S.C.C. kerat., NOS	6	29	4	11	0	50
S.C.C. large cell, nonkerat.	0	3	0	1	0	4
S.C.C. microinvasive	5	1	2	2	0	10
S.C.C., NOS	104	785	88	303	66	1346
S.C.C., small cell, nonkerat.	1	6	0	6	0	13
S.C.C. spindle cell	0	2	0	0	0	2
Transitional cell ca., NOS	0	2	0	0	0	2
Verrucous ca., NOS	0	1	0	0	0	1
Total	142	879	110	365	73	1569

NOS: not otherwise specified.
undiff.: undifferentiated.
kerat.: keratinizing.

ca., Ca.: carcinoma.
Malig., malig.: malignant.
nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.
quest.: questionable.

Carcinoma of the Oropharynx ----- 1569 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
Without	50	507	47	209	43	856
With	84	280	55	122	15	556
Unknown	8	92	8	34	15	157
Radiotherapy						
Without	83	207	53	101	16	460
With	51	580	49	230	42	952
Unknown	8	92	8	34	15	157
Chemotherapy						
Without	93	265	56	132	21	567
With	41	522	46	199	37	845
Unknown	8	92	8	34	15	157
Total	142	879	110	365	73	1569

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	114	541	89	231	47	1022
With	20	241	13	100	11	385
Unknown	8	97	8	34	15	162
Radiotherapy						
Without	102	256	68	130	19	575
With	32	526	34	201	39	832
Unknown	8	97	8	34	15	162
Chemotherapy						
Without	107	294	69	146	22	638
With	27	488	33	185	36	769
Unknown	8	97	8	34	15	162
Total	142	879	110	365	73	1569

NOS: not otherwise specified.

Carcinoma of the Oropharynx ----- 1569 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	5	13	3	8	3	32
F) (Rad.+Chem.)	20	274	29	104	30	457
A) Surg. alone	71	137	43	68	10	329
B) Rad. alone	12	81	5	34	5	137
CF) Chem.->(Rad.+Chem.)	6	70	3	28	2	109
AF) Surg.->(Rad.+Chem.)	3	44	4	9	1	61
AB) Surg.->Rad.	4	29	5	15	3	56
C) Chem. alone	4	22	3	13	3	45
CA) Chem.->Surg.	2	18	1	6	0	27
CB) Chem.->Rad.	0	16	1	8	0	25
FA) (Rad.+Chem.)->Surg.	2	15	0	4	0	21
CAB) Chem.->Surg.->Rad.	0	9	0	5	0	14
FC) (Rad.+Chem.)->Chem.	0	11	1	2	0	14
AC) Surg.->Chem.	1	8	1	3	0	13
CAF) Chem.->Surg.->(Rad.+Chem.)	1	6	0	3	0	10
CFC) Chem.->(Rad.+Chem.)->Chem.	0	5	0	4	0	9
CFF) Chem.->(Rad.+Chem.)->(Rad.+Chem.)	0	3	1	2	0	6
BA) Rad.->Surg.	0	1	0	4	0	5
Others	3	25	2	11	1	42
Unknown	8	92	8	34	15	157
Total	142	879	110	365	73	1569

NOS: not otherwise specified.

Rad.: radiotherapy.

Treatment methods in parentheses were given concurrently.

Chem.: chemotherapy.

Surg.: surgery.

Surgical Method for the Primary Lesion by Subsite

Surgical method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
X0) No surgery	50	505	47	209	43	854
E3) Unilateral resection of the lateral wall of the oropharynx	1	173	2		4	180
E9) Resection of the oropharynx, other type	6	53	13	33	7	112
E1) Resection of the base of tongue	0	2	1	55	0	58
E8) Resection of the soft palate	49	2	0	0	2	53
E6) Resection of the posterior wall	0	2	33	0	0	35
E4) Unilateral resection of the lateral wall of the oropharynx and soft palate	7	22	0	1	0	30
E7) Resection of the uvula	18	0	0	0	0	18
E5) Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	0	15	0	1	0	16
E2) Resection of the base of tongue and epiglottis	0	1	0	8	0	9
A6) Total glossectomy	0	0	0	8	0	8
F2) Transoral resection	0	3	2	1	0	6
A5) Subtotal glossectomy	0	1	0	4	0	5
A1) Partial glossectomy	0	0	0	3	0	3
Others	3	7	4	8	2	24
Unknown	8	93	8	34	15	158
Total	142	879	110	365	73	1569

NOS: not otherwise specified.

Carcinoma of the Oropharynx ----- 1569 Cases

Reconstructive Surgery by Subsite

Reconstructive surgery	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No reconstruction	120	700	95	283	52	1250
E) Free ALT flap	4	45	1	12	1	63
D) Free RA MC flap	0	16	1	23	4	44
C) Free FA flap	6	11	0	0	0	17
5) PM MC flap	0	5	0	8	0	13
B) Free jejunal flap	0	5	5	1	1	12
2) Local skin flap	1	1	0	2	0	4
3) Mucosal flap	3	0	0	0	0	3
Others	0	1	0	2	0	3
Unknown	8	95	8	34	15	160
Total	142	879	110	365	73	1569

NOS: not otherwise specified.
 MC: musculocutaneous.

ALT: anterolateral thigh.
 FA: forearm.

RA: rectus abdominis.
 PM: pectoralis major.

Carcinoma of the Oropharynx ----- 1569 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.	114	543	89	232	47	1025
1) Total N.D.	7	98	3	38	3	149
2) Selective N.D.	13	134	9	59	5	220
3) Lymph node excision	0	6	1	0	1	8
8) Others	0	0	0	1	0	1
9) Unknown type	0	1	0	1	2	4
Unknown	8	97	8	34	15	162
Total	142	879	110	365	73	1569

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.	129	751	96	289	54	1319
1) Total N.D.	1	8	2	9	0	20
2) Selective N.D.	3	21	4	31	2	61
3) Lymph node excision	1	1	0	0	0	2
8) Others	0	0	0	1	0	1
9) Unknown type	0	1	0	1	2	4
Unknown	8	97	8	34	15	162
Total	142	879	110	365	73	1569

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Oropharynx ----- 1569 Cases

Radiotherapy by Subsite

Type of radiotherapy	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No radiotherapy	83	200	52	97	16	448
1) X-ray (and/or electron beam)	48	560	48	219	40	915
2) Particle beam.	2	1	0	4	0	7
4) X-ray+Particle beam.	0	1	0	1	0	2
Others	1	5	0	0	0	6
Unknown type	0	19	2	10	2	33
Unknown	8	93	8	34	15	158
Total	142	879	110	365	73	1569

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	93	259	56	127	21	556
1) I.V.	34	447	40	165	23	709
5) I.V.+Oral	1	30	1	10	12	54
3) Oral	5	20	3	6	0	34
2) I.A.	1	8	0	10	0	19
4) I.V.+I.A.	0	0	0	2	0	2
6) I.A.+Oral	0	1	0	1	0	2
Unknown route	0	19	2	9	2	32
Unknown	8	95	8	35	15	161
Total	142	879	110	365	73	1569

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Nasopharynx (2014)

282 Cases

Carcinoma of the Nasopharynx ——— 282 Cases

Subsite

Subsite	Number of patients (%)	
Posterior-superior wall	128	(45.4)
Lateral wall	102	(36.2)
Inferior wall	5	(1.8)
Nasopharynx, NOS	47	(16.6)
Total	282	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	3	1	4
20 - 29	5	2	7
30 - 39	12	5	17
40 - 49	33	10	43
50 - 59	50	9	59
60 - 69	66	14	80
70 - 79	51	9	60
80 - 89	6	5	11
90 - 99	1	0	1
Total	227	55	282

Carcinoma of the Nasopharynx ----- 282 Cases

Histological Distribution by Subsite

Histologic type	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Adenoid cystic ca.	1	1	0	1	3
Basaloid S.C.C.	1	0	0	0	1
Ca., NOS	4	5	0	2	11
Ca., undiff., NOS	10	9	0	2	21
Carcinosarcoma, NOS	0	0	0	1	1
Fibrosarcoma, NOS	0	1	0	0	1
Lymphoepithelial ca.	16	17	0	7	40
Malig. Lymphoma, NOS	1	0	0	0	1
Malig. melanoma	0	0	0	1	1
Mucoepidermoid ca.	0	1	1	0	2
Myoepithelial ca.	0	1	0	0	1
Spindle cell ca., NOS	2	0	0	0	2
S.C.C. in situ, NOS	0	0	1	0	1
S.C.C. kerat., NOS	4	3	0	1	8
S.C.C. large cell, nonkerat.	4	5	0	0	9
S.C.C., NOS	79	55	3	32	169
S.C.C., small cell, nonkerat.	6	3	0	0	9
Transitional cell ca., NOS	0	1	0	0	1
Total	128	102	5	47	282

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	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0
T1	14	25 (1)	32 (2)	1	0	4	1	1	78
T2	11	14	31 (3)	4	0	6 (2)	0	0	66
T3	7	14	13 (4)	0	2	5 (1)	1	0	42
T4	13 (2)	24 (3)	22 (2)	1	1 (1)	5 (2)	0	0	66
TX	1	0	1	0	0	0	0	0	2
T-	0	1	0	0	0	0	0	27	28
Total	46	78	99	6	3	20	2	28	282

M1: 23 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 ----- 282 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
Without	113	87	3	39	242
With	0	2	1	1	4
Unknown	15	13	1	7	36
Radiotherapy					
Without	7	3	1	1	12
With	106	86	3	39	234
Unknown	15	13	1	7	36
Chemotherapy					
Without	16	13	1	5	35
With	97	76	3	35	211
Unknown	15	13	1	7	36
Total	128	102	5	47	282

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	111	88	4	39	242
With	2	2	0	1	5
Unknown	15	12	1	7	35
Radiotherapy					
Without	14	12	2	5	33
With	99	77	2	35	213
Unknown	15	13	1	7	36
Chemotherapy					
Without	20	18	2	6	46
With	93	71	2	34	200
Unknown	15	13	1	7	36
Total	128	102	5	47	282

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Posterioro-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
No treatment	2	0	0	1	3
F) (Rad.+Chem.)	59	51	3	19	132
FC) (Rad.+Chem.)->Chem.	11	13	0	14	38
B) Rad. alone	14	11	0	4	29
CF) Chem.->(Rad.+Chem.)	15	5	0	0	20
CFC) Chem.->(Rad.+Chem.)->Chem	6	1	0	1	8
C) Chem. alone	5	2	0	0	7
Others	1	6	1	1	9
Unknown	15	13	1	7	36
Total	128	102	5	47	282

NOS: not otherwise specified.

Rad.: radiotherapy.

Treatment methods in parentheses were given concurrently.

Chem.: chemotherapy.

Surg.: surgery.

Carcinoma of the Nasopharynx ----- 282 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
X0) No surgery	113	87	3	39	242
E8) Resection of the soft palate	0	0	1	0	1
X9) Others	0	2	0	1	3
Unknown	15	13	1	7	36
Total	128	102	5	47	282

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstructive surgery	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No reconstruction	113	89	4	40	246
E) Free ALT flap	0	1	0	0	1
Unknown	15	12	1	7	35
Total	128	102	5	47	282

NOS: not otherwise specified.

ALT: anterolateral thigh.

Carcinoma of the Nasopharynx ----- 282 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.	111	88	4	39	242
1) Total N.D.	0	1	0	0	1
2) Selective N.D.	2	1	0	1	4
3) Lymph node excision	0	0	0	0	0
9) Unknown	15	12	1	7	35
Total	128	102	5	47	282

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.	112	90	4	40	246
1) Total N.D.	0	0	0	0	0
2) Selective N.D.	1	0	0	0	1
3) Lymph node excision	0	0	0	0	0
9) Unknown	15	12	1	7	35
Total	128	102	5	47	282

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Nasopharynx ----- 282 Cases

Radiotherapy by Subsite

Type of radiotherapy	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No radiotherapy	6	3	1	1	11
1) X-ray (and/or electron beam)	104	84	3	39	230
2) Particle beam	1	0	0	0	1
4) X-ray + Particle beam	1	0	0	0	1
Unknown type	1	3	0	0	4
9) Unknown	15	12	1	7	35
Total	128	102	5	47	282

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No chemotherapy	16	13	1	5	35
1) I.V.	84	64	3	31	182
5) I.V.+ Oral	9	7	0	3	19
3) Oral	1	2	0	1	4
4) I.V.+ I.A.	2	0	0	0	2
2) I.A.	0	1	0	0	1
Unknown route	1	3	0	0	4
9) Unknown	15	12	1	7	35
Total	128	102	5	47	282

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

**Nasal Cavity & Paranasal Sinuses
(Excluding the Maxillary Sinus)
(2014)**

320 Cases

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 320 Cases

Subsite

Subsite	Number of patients (%)	
Nasal cavity	175	(54.7)
Ethmoid sinus	75	(23.4)
Frontal sinus	5	(1.7)
Sphenoid sinus	10	(3.0)
Paranasal sinus, NOS	55	(17.2)
Total	320	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	0	1
20 - 29	5	7	12
30 - 39	5	4	9
40 - 49	20	11	31
50 - 59	37	15	52
60 - 69	64	37	101
70 - 79	55	24	79
80 - 89	16	14	30
90 - 99	3	2	5
100 - 109	0	0	0
Total	206	114	320

Nasal cavity and Paranasal Sinuses ----- 320 Cases

Histological Distribution by Subsite

Histologic type	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
Acinar cell ca.	0	0	0	0	1	1
Adenocarcinoma	9	4	0	1	2	16
Adenoid cystic ca.	12	6	0	0	4	22
Adenosquamous ca.	0	2	0	0	0	2
Basal cell adenocarcinoma	3	0	0	0	0	3
Basaloid squamous cell ca.	1	0	0	0	0	1
Carcinoid tumor,NOS	0	0	0	1	0	1
Ca., NOS	2	4	0	0	1	7
Ca., undiff., NOS	3	3	0	0	0	6
Carcinosarcoma, NOS	2	1	0	0	0	3
Clear cell ca.,NOS	1	0	0	0	0	1
Epithelial-myoepithelial ca.	1	0	0	0	0	1
Ewing sarcoma,NOS	1	0	0	0	0	1
Fibrosarcoma,NOS	1	0	0	0	0	1
Leiomyosarcoma,NOS	1	0	0	0	1	2
Malig. Lymphoma, NOS	2	2	0	0	2	6
Malig. Melanoma, NOS	34	6	0	0	10	50
Mucoepidermoid ca.	1	0	0	0	0	1
Myoepithelial ca.	1	1	0	0	0	2
Neoplasm, malig.	2	0	0	0	0	2
Neuroendocrine ca.	2	1	0	0	0	3
Olfactory neuroblastoma	12	6	0	0	5	23
Osteosarcoma,NOS	0	0	0	0	1	1
Papillary S.C.C.	1	0	0	0	0	1
Plasmacytoma, NOS	2	0	0	0	1	3
Polymorphous low grade adenocarcinoma	0	1	0	0	0	1
Rhabdomyosarcoma	4	1	0	0	2	7
Salivary duct ca.	1	0	0	0	0	1
Sebaceous ca.	0	0	0	0	1	1
Small cell ca., NOS	5	2	1	1	1	10
S.C.C. in situ, NOS	2	0	0	0	1	3
S.C.C. kerat., NOS	2	0	0	0	0	2
S.C.C., NOS	62	34	3	6	22	127
Spindle cell ca. ,NOS	0	0	0	1	0	1
S.C.C,small cell.nonkerat.	1	1	0	0	0	2
Transitional cell ca.,NOS	3	0	1	0	0	4
Verrucous ca., NOS	1	0	0	0	0	1
Total	175	75	5	10	55	320

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

ca., Ca.: carcinoma.
 S.C.C.: squamous cell carcinoma.

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	1	0	0	0	0	0	0	0	0	1
T1	41	2 (2)	0	0	0	0	0	1	1	45
T2	39 (2)	0	0	0	1	1	0	0	0	41
T3	34 (1)	1	0	0	2	3 (1)	1 (1)	0	0	41
T4	6	0	0	0	1	0	0	0	0	7
T4a	50 (1)	6	4	0	0	0	0	0	0	60
T4b	45 (4)	5 (1)	0	0	2	2	0	0	0	54
TX	6	0	0	1	0	0	0	8	0	15
T-	9	1	1	0	0	0	0	1	44	56
Total	231	15	5	1	6	6	1	10	45	320

M1: 13 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.

T for olfactory neuroblastoma are case by case

Nasal cavity and Paranasal Sinuses ----- 320 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
Surgery						
Without	65	42	3	9	27	146
With	86	26	1	1	25	139
Unknown	24	7	1	0	3	35
Radiotherapy						
Without	62	11	0	1	18	92
With	89	57	4	9	34	193
Unknown	24	7	1	0	3	35
Chemotherapy						
Without	92	27	0	3	25	147
With	59	41	4	7	27	138
Unknown	24	7	1	0	3	35
Total	175	75	5	10	55	320

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
Surgery						
Without	134	61	4	9	44	252
With	12	5	0	0	4	21
Unknown	29	9	1	1	7	47
Radiotherapy						
Without	119	54	2	4	39	218
With	24	12	2	5	8	51
Unknown	32	9	1	1	8	51
Chemotherapy						
Without	121	55	1	4	37	218
With	23	11	3	5	10	52
Unknown	31	9	1	1	8	50
Total	175	75	5	10	55	320

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
No treatment	7	2	0	0	1	10
A) Surg. alone	45	8	0	0	12	65
F) (Rad.+Chem.)	24	19	3	2	12	60
B) Rad. alone	21	10	0	3	6	40
AB) Surg.->Rad.	18	6	0	0	6	30
AF) Surg.->(Rad.+Chem.)	8	5	0	1	0	14
C) Chem. alone	3	1	0	1	3	8
CF) Chem.->(Rad.+Chem.)	3	5	0	0	0	8
CAF) Chem.->Surg.->(Rad.+Chem.)	3	1	0	0	2	6
BC) Rad. -> Chem.	3	1	0	0	1	5
FC) (Rad.+Chem.)->Chem.	0	1	0	2	2	5
CAB) Chem.->Surg.->Rad.	1	1	1	0	1	4
CB) Chem.->Rad.	1	2	0	0	1	4
FA) (Rad.+Chem.)->Surg.	2	2	0	0	0	4
ABC) Surg.->Rad.-<Chem.	0	2	0	0	1	3
Others	12	2	0	1	4	19
Unknown	24	7	1	0	3	35
Total	175	75	5	10	55	320

NOS: not otherwise specified.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Surgical Method for the Primary Lesion by Subsite

Surgical method	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
X0) No surgery	65	42	3	9	27	146
D1) Partial maxillectomy	19	1	0	0	3	23
D4) Skull base surgery	6	3	1	0	0	10
D9) Maxillectomy, other type	2	3	0	0	0	5
D2) Total maxillectomy	1	1	0	0	1	3
D3) Extended total maxillectomy	1	1	0	0	1	3
V9) Unknown method	1	1	0	0	0	2
X9) Others	56	16	0	1	20	93
Unknown	24	7	1	0	3	35
Total	175	75	5	10	55	320

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstructive surgery	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No reconstruction	137	62	4	10	43	256
D) Free RA MC flap	4	1	0	0	1	6
2) Local skin flap	3	0	0	0	2	5
C) Free FA flap	3	1	0	0	0	4
3) Local mucosal flap	0	2	0	0	1	3
E) Free ALT flap	1	1	0	0	0	2
8) Others	3	1	0	0	5	9
Unknown	24	7	1	0	3	35
Total	175	75	5	10	55	320

NOS: not otherwise specified.
FA: forearm.

RA: rectus abdominis.

ALT: anterolateral thigh.

MC: musculocutaneous.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No N.D.	132	61	4	9	44	250
1) Total N.D.	3	0	0	0	1	4
2) Selective N.D.	10	5	0	0	2	17
8) Others	1	0	0	0	0	1
Unknown type	0	0	0	0	1	1
9) Unknown	29	9	1	1	7	47
Total	175	75	5	10	55	320

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No N.D.	143	65	4	9	47	268
1) Total N.D.	0	0	0	0	0	0
2) Selective N.D.	2	1	0	0	0	3
8) Others	1	0	0	0	0	1
Unknown type	0	0	0	0	1	1
9) Unknown	29	9	1	1	7	47
Total	175	75	5	10	55	320

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 320 Cases

Radiotherapy by Subsite

Type of radiotherapy	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No radiotherapy	58	11	0	1	20	90
1) X-ray (and/or electron beam)	74	47	4	8	28	161
2) Particle beam	16	7	0	1	2	26
8) Others	2	3	0	0	0	5
Unknown source	1	0	0	0	2	3
9) Unknown	24	7	1	0	3	35
Total	175	75	5	10	55	320

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
0) No chemotherapy	85	24	0	2	21	132
1) I.V.	51	34	3	5	20	113
2) I.A.	2	4	0	0	3	9
3) Oral	1	0	1	2	0	4
5) I.V.+Oral	1	2	0	0	0	3
4) I.V.+I.A.	0	0	0	0	1	1
6) I.A.+Oral	0	0	0	0	1	1
8) Others	1	1	0	0	0	2
Unknown route	4	1	0	0	2	7
9) Unknown	30	9	1	1	7	48
Total	175	75	5	10	55	320

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Maxillary Sinus (2014)

352 Cases

Carcinoma of the Maxillary Sinus ----- 352 Cases

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	3	3	6
30 - 39	1	3	4
40 - 49	25	3	28
50 - 59	38	20	58
60 - 69	101	23	124
70 - 79	64	24	88
80 - 89	20	21	41
90 - 99	1	2	3
Total	253	99	352

Histological Distribution

Histologic type	Number of patients (%)	
Adenocarcinoma, NOS	2	(0.6)
Adenoid cystic ca.	18	(5.1)
Adenosquamous ca.	1	(0.3)
Basoloid squamous cell ca.	4	(1.1)
Ca., NOS	8	(2.3)
Ca., undiff., NOS	4	(1.1)
Carcinosarcoma	1	(0.3)
Chondrosarcoma	1	(0.3)
Fibrosarcoma	1	(0.3)
Malig. fibrous histiocytoma	2	(0.6)
Malig, Lymphoma	2	(0.6)
Malig. Melanoma, NOS	7	(2.0)
Mucoepidermoid ca.	5	(1.4)
Myoepithelial ca.	1	(0.3)
Neoplasm, malig.	1	(0.3)
Osteosarcoma	4	(1.1)
Papillary S.C.C.	1	(0.3)
Rabdomyosarcoma	2	(0.6)
Sarcoma undiff., NOS	1	(0.3)
Small cell ca., NOS	5	(1.4)
Spindle cell ca., NOS	5	(1.4)
S.C.C. in situ, NOS	5	(1.4)
S.C.C. kerat., NOS	6	(1.7)
S.C.C. large cell, nonkerat.	1	(0.3)
S.C.C., NOS	259	(73.6)
S.C.C. small cell, nonkerat.	3	(0.9)
S.C.C., spindle cell	1	(0.3)
Transitional cell ca.	1	(0.3)
Total	352	(100.0)

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

ca., Ca.: carcinoma.
Malig., malig.: malignant.
kerat :keratinizing.

Carcinoma of the Maxillary Sinus ----- 352 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	6	0	0	0	0	0	0	0	0	6
T2	18 (1)	0	0	0	0	1	0	1	0	20
T3	55 (2)	3	0	0	6	4 (1)	0	0	1	69
T4	4	2 (1)	0	0	2	0	0	0	0	8
T4a	106 (5)	11	1	1	23 (2)	6 (1)	0	0	2	150
T4b	35 (2)	7	0	0	7	6 (2)	0	1 (1)	0	56
TX	0	0	0	0	0	0	0	0	0	0
T-	2	0	0	0	0	0	1	1	39	43
Total	226	23	1	1	38	17	1	3	42	352

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.

Treatment Method for the Primary Lesion

Treatment method	Number of patients (%)
Surgery	
Without	183 (52.0)
With	119 (33.8)
Unknown	50 (14.2)
Radiotherapy	
Without	56 (15.9)
With	246 (69.9)
Unknown	50 (14.2)
Chemotherapy	
Without	87 (24.7)
With	215 (61.1)
Unknown	50 (14.2)
Total	352 (100.0)

Treatment Method for the Cervical Lymph Nodes

Treatment method	Number of patients (%)
Surgery	
Without	259 (73.6)
With	45 (12.8)
Unknown	48 (13.6)
Radiotherapy	
Without	219 (62.2)
With	85 (24.2)
Unknown	48 (13.6)
Chemotherapy	
Without	220 (62.5)
With	84 (23.9)
Unknown	48 (13.6)
Total	352 (100.0)

Carcinoma of the Maxillary Sinus ----- 352 Cases

Sequence of Treatment Methods for the Primary Lesion

Sequence of treatment methods	Number of patients (%)
No treatment	8 (2.3)
F) (Rad.+Chem.)	113 (32.0)
A) Surg. alone	28 (8.0)
B) Rad. alone	27 (7.7)
AB) Surg. -> Rad.	21 (6.0)
FA) (Rad.+Chem.) -> Surg.	19 (5.4)
AF) Surg. -> (Rad.+Chem.)	12 (3.4)
C) Chem.	10 (2.8)
CF) Chem.->(Rad.+Chem.)	10 (2.8)
CFA) Chem.->(Rad.+Chem.)->Surg.	6 (1.7)
CA) Chem.->Surg.	5 (1.4)
FC) (Rad.+Chem.)->Chem.	4 (1.1)
BC) Rad.->Chem.	4 (1.1)
FAB) (Rad.+Chem.) -> Surg.->Rad.)	4 (1.1)
CB) Chem.->Rad.	3 (0.9)
AC) Surg.->Chem.	3 (0.9)
CBA) Chem.-> Rad.->Surg.	3 (0.9)
Others	22 (6.3)
Unknown	50 (14.2)
Total	352 (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	182 (51.7)
D2) Total maxillectomy	47 (13.4)
D1) Partial maxillectomy	40 (11.4)
D3) Extended total maxillectomy	16 (4.5)
D9) Maxillectomy, other type	6 (1.7)
D4) Extended total maxillectomy with skullbase surgery	6 (1.7)
X9) Others	5 (1.4)
Unknown	50 (14.2)
Total	352 (100.0)

Carcinoma of the Maxillary Sinus ----- 352 Cases

Neck Dissection on the Ipsilateral Side

Neck dissection	Number of patients (%)
0) No N.D.	257 (73.0)
1) Total N.D.	12 (3.4)
2) Selective N.D.	33 (9.4)
3) Lymph node excision	2 (0.6)
9) Unknown	48 (13.6)
Total	352 (100.0)

N.D.: neck dissection.

Neck Dissection on the Contralateral Side

Neck dissection	Number of patients (%)
0) No N.D.	299 (85.0)
1) Total N.D.	1 (0.3)
2) Selective N.D.	4 (1.1)
3) Lymph node excision	0 (0.0)
9) Unknown	48 (13.6)
Total	352 (100.0)

N.D.: neck dissection.

Reconstructive Surgery

Reconstructive surgery	Number of patients (%)
0) No reconstruction	240 (68.2)
D) Free RA MC flap	41 (11.6)
1) Skin graft	4 (1.1)
G) Scapular OC flap	4 (1.1)
6) LD MC flap	1 (0.3)
C) Free FA flap	1 (0.3)
8) Others	5 (1.4)
Unknown	56 (15.9)
Total	352 (100.0)

RA: rectus abdominis.
OC: osteocutaneous.
FA: forearm.

MC: musculocutaneous.
LD: Lattismus dorsi.

Carcinoma of the Maxillary Sinus ----- 352 Cases

Radiotherapy

Type of radiotherapy	Number of patients (%)	
0) No radiotherapy	53	(15.0)
1) X-ray (and/or electron beam)	224	(63.7)
3) Particle beam	17	(4.8)
4) X-ray+particle beam	2	(0.6)
Unknown type	8	(2.3)
9) Unknown	48	(13.6)
Total	352	(100.0)

Chemotherapy

Route of administration	Number of patients (%)	
0) No chemotherapy	87	(24.7)
2) I.A.	102	(29.0)
1) I.V.	82	(23.3)
4) I.V.+ I.A.	15	(4.3)
3) Oral	7	(2.0)
5) I.V.+ Oral	2	(0.6)
6) I.A. + Oral	2	(0.6)
7) I.V.+ I.A.+ Oral	1	(0.3)
Unknown route	6	(1.7)
9) Unknown	48	(13.6)
Total	352	(100.0)

I.A.: intraarterial.

I.V.: intravenous.

Major Salivary Glands (2014)

565 Cases

Carcinoma of the Major Salivary Glands ----- 565 Cases

Primary site

Site	Number of patients (%)	
Parotid gland	401	(71.0)
Submandibular gland	136	(24.0)
Sublingual gland	26	(4.6)
Major salivary gland, NOS	2	(0.4)
Total	565	(100.0)

NOS: not otherwise specified.

Carcinoma of the Major Salivary Glands ----- 565cases

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	5	3	8
20 - 29	5	9	14
30 - 39	13	14	27
40 - 49	33	30	63
50 - 59	64	30	94
60 - 69	103	56	159
70 - 79	86	44	130
80 - 89	35	25	60
90 - 99	7	3	10
Total	351	214	565

Parotid Gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	5	1	6
20 - 29	4	9	13
30 - 39	9	12	21
40 - 49	26	23	49
50 - 59	40	22	62
60 - 69	70	39	109
70 - 79	64	28	92
80 - 89	27	13	40
90 - 99	7	2	9
Total	252	149	401

Carcinoma of the Major Salivary Glands ——— 565 Cases

Submandibular Gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	1	0	1
30 - 39	4	0	4
40 - 49	6	6	12
50 - 59	18	5	23
60 - 69	30	15	45
70 - 79	19	16	35
80 - 89	6	9	15
90 - 99	0	0	0
Total	84	52	136

Sublingual Gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	0	0	0
30 - 39	0	2	2
40 - 49	1	1	2
50 - 59	5	3	8
60 - 69	3	2	5
70 - 79	3	0	3
80 - 89	1	3	4
90 - 99	0	1	1
Total	13	13	26

Carcinoma of the Major Salivary Glands ----- 565 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.	39	0	0	0	39
Adenocarcinoma	36	19	1	1	57
Adenoid cystic ca.	29	42	13	0	84
Adenosquamous ca.	0	0	1	0	1
Basal cell adenocarcinoma	5	3	2	0	10
Basal cell ca.	4	1	0	0	5
Basaloid S.C.C	1	0	0	0	1
Ca. ex pleomorphic adenoma	37	10	0	0	47
Ca., NOS	16	4	1	0	21
Ca., undiff., NOS	2	1	0	0	3
Carcinosarcoma, NOS	1	1	0	0	2
Clear cell ca.	1	0	0	0	1
Cystadenocarcinoma	3	0	0	0	3
Epithelial-myoepithelial ca.	17	1	0	0	18
Interdigitating dendritic cell sa.	1	0	0	0	1
Large cell ca., NOS	0	1	0	0	1
Lymphoepithelial ca.	4	0	0	0	4
Malig. Lymphoma, NOS	9	7	0	0	16
Malig. Melanoma	1	0	0	0	1
Mixed tumor, malig., NOS	0	0	0	1	1
Mucinous adenocarcinoma	1	0	0	0	1
Mucoepidermoid ca.	57	9	4	0	70
Myoepithelial ca.	6	2	2	0	10
Neoplasm, malig.	3	0	0	0	3
Oncocytic ca.	2	1	0	0	3
Osteosarcoma	1	0	0	0	1
Salivary duct ca.	74	22	1	0	97
Sebaceous ca.	1	0	0	0	1
Small cell ca., NOS	1	0	0	0	1
Spindle cell ca.	1	0	0	0	1
S.C.C. kerat., NOS	2	0	0	0	2
S.C.C., NOS	46	12	1	0	59
Total	401	136	26	2	565

NOS: not otherwise specified.
sa.:sarcoma.

ca., Ca.: carcinoma.
S.C.C.: squamous cell carcinoma.

Malig., malig.: malignant.

Carcinoma of the Major Salivary Glands ----- 565 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	2	0	0	0	0	0	0	0	0	2
T1	57 (1)	0	0	0	6	2	0	0	0	65
T2	121 (2)	6 (1)	0	0	24 (6)	2 (1)	0	0	0	153
T3	81 (3)	5 (1)	0	1	23 (1)	3 (1)	1	0	1	115
T4	3	0	0	0	6	0	1 (1)	0	0	10
T4a	46 (4)	18 (1)	1 (1)	0	40 (8)	5 (3)	1 (1)	0	0	111
T4b	4	1 (1)	0	0	10 (2)	1	1 (1)	0	0	17
TX	0	0	0	0	0	0	1	4 (1)	0	5
T-	1	0	0	0	0	0	0	0	86	87
Total	315	30	1	1	109	13	5	4	87	565

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	45 (1)	0	0	0	4	1	0	0	0	50
T2	87	4	0	0	13 (1)	0	0	0	0	104
T3	53 (1)	3	0	0	10	1	0	0	0	67
T4	3	0	0	0	6	0	1 (1)	0	0	10
T4a	38 (2)	16 (1)	1 (1)	0	35 (7)	3 (3)	1 (1)	0	0	94
T4b	3	1 (1)	0	0	6 (1)	1	1 (1)	0	0	12
TX	0	0	0	0	0	0	1	3	0	4
T-	0	0	0	0	0	0	0	0	59	59
Total	230	24	1	0	74	6	4	3	59	401

M1: 22 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 ——— 565 Cases

Submandibular 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	9	0	0	0	2	0	0	0	0	11
T2	23 (2)	2 (1)	0	0	9 (4)	1	0	0	0	35
T3	25 (2)	1	0	1	12 (1)	2 (1)	1	0	1	43
T4	0	0	0	0	0	0	0	0	0	0
T4a	5 (2)	2	0	0	5 (1)	2	0	0	0	14
T4b	1	0	0	0	4 (1)	0	0	0	0	5
TX	0	0	0	0	0	0	0	1 (1)	0	1
T-	0	0	0	0	0	0	0	0	26	26
Total	64	5	0	1	32	5	1	1	27	136

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.

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	2	0	0	0	0	0	0	0	0	2
T2	11	0	0	0	2 (1)	1 (1)	0	0	0	14
T3	3	1 (1)	0	0	1	0	0	0	0	5
T4	0	0	0	0	0	0	0	0	0	0
T4a	3	0	0	0	0	0	0	0	0	3
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	1	0	0	0	0	0	0	0	1	2
Total	20	1	0	0	3	0	0	0	0	26

M1: 3 case. 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 ——— 565 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	48	12	2	1	63
With	293	102	22	0	417
Unknown	60	22	2	1	85
Radiotherapy					
Without	184	59	17	1	261
With	157	55	8	0	220
Unknown	60	22	1	1	84
Chemotherapy					
Without	279	84	24	0	387
With	62	30	1	1	94
Unknown	60	22	1	1	84
Total	401	136	26	2	565

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	145	19	10	1	175
With	193	95	14	0	302
Unknown	63	22	2	1	88
Radiotherapy					
Without	233	67	20	1	321
With	105	47	4	0	156
Unknown	63	22	2	1	88
Chemotherapy					
Without	289	87	23	0	399
With	49	27	1	1	78
Unknown	63	22	2	1	88
Total	401	136	26	2	565

NOS: not otherwise specified.

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	6	2	0	0	8
A) Surg. alone	163	48	15	0	226
AB) Surg.->Rad.	85	30	7	0	122
AF) Surg.->(Rad.+Chem.)	22	13	0	0	35
B) Rad. alone	19	4	1	0	24
C) Chem. alone	7	4	1	1	13
F) Rad.+Chem.	9	2	0	0	11
AC) Surg.->Chem.	6	5	0	0	11
ABC) Surg.->Rad.->Chem.	5	3	0	0	8
AFC) Surg.->(Rad.+Chem.)->Chem.	7	1	0	0	8
AA) Surg.->Surg.	2	0	0	0	2
CB) Chem.->Rad.	2	0	0	0	2
FC) Rad.+Chem.->Chem.	2	0	0	0	2
Others	6	2	0	0	8
Unknown	60	22	2	1	85
Total	401	136	26	2	565

NOS: not otherwise specified.

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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	48	12	2	1	63
H4) Total parotidectomy	108	0	0	0	108
H6) Submandibulectomy	0	96	0	0	96
H2) Superficial parotidectomy	92	0	0	0	92
H5) Extended total parotidectomy	49	0	0	0	49
H1) Partial parotidectomy	24	0	0	0	24
H3) Deep lobe resection of the parotid gland	16	0	0	0	16
H7) Resection of the sublingual gland	0	1	15	0	16
Others	4	5	7	0	16
Unknown	60	22	2	1	85
Total	401	136	26	2	565

NOS: not otherwise specified.

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	256	106	15	1	378
1) Nerve graft	31	0	0	0	31
E) Free ALT flap	14	1	3	0	18
D) Free RA MC flap	9	2	1	0	12
2) Local skin flap	9	0	0	0	9
5) PM MC flap	3	3	1	0	7
H) Vascularized nerve graft (I+H)	7	0	0	0	7
4) DP flap	3	1	0	0	4
C) Free FA flap	0	0	3	0	3
1) Skin graft	0	0	1	0	1
D+I) Free RA MC flap+Nerve graft	1	0	0	0	1
G) Fibular OC flap	0	1	0	0	1
8) Others	5	0	0	0	5
Unknown	63	22	2	1	88
Total	401	136	26	2	565

NOS: not otherwise specified. ALT: anterolateral thigh. RA: rectus abdominis.
 MC: musculocutaneous. PM: pectoralis major. DP: deltopectoral
 FA: forearm. OC: osteocutaneous.

Carcinoma of the Major Salivary Glands ----- 565 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.	146	20	10	1	177
1) Total N.D.	62	35	4	0	101
2) Selective N.D.	116	54	10	0	180
3) Lymph node excision	9	5	0	0	14
8) Others	1	0	0	0	1
Unknown dissection	4	0	0	0	4
9) Unknown	63	22	2	1	88
Total	401	136	26	2	565

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.	331	105	20	1	457
1) Total N.D.	0	1	1	0	2
2) Selective N.D.	3	8	3	0	14
3) Lymph node excision	0	0	0	0	0
Unknown dissection	4	0	0	0	4
9) Unknown	63	22	2	1	88
Total	401	136	26	2	565

N.D.: neck dissection.

Carcinoma of the Major Salivary Glands ----- 565 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	180	54	16	1	251
1) X-ray (and/or electron beam)	151	58	8	0	217
3) Particle beam	7	1	0	0	8
8) Others	3	0	1	0	4
9) Unknown	60	23	1	1	85
Total	401	136	26	2	565

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	277	81	24	0	382
1) I.V.	54	21	1	0	76
3) Oral	6	4	0	1	11
5) I.V.+Oral	3	3	0	0	6
8) Others	1	0	0	0	1
Unknown route	0	4	0	0	4
9) Unknown	60	23	1	1	85
Total	401	136	26	2	565

NOS: not otherwise specified.

I.V.: intravenous.