

Report of Head and Neck Cancer Registry of Japan  
Clinical Statistics of Registered Patients, 2003

Japan Society for Head and Neck Cancer  
Cancer Registry Committee

## Preface

The Head and Neck Cancer Registry of Japan was founded in 1981 by the Subcommittee for Head and Neck Cancer of the Japanese Joint Committee. Although its first purpose was to formulate Japanese proposals for the TNM classification based on collected data, it soon became apparent that this vast registry contributes greatly to the understanding of the statistics and treatments of head and neck cancer in Japan.

One thousand one hundred and seventy-six patients treated in 1979 were registered in the first registration which took place in 1981. Since then the registration has been repeated every year. Although the annual number of registered patients had increased steadily until 1990, it shifted to a constant decline afterwards because this registry was not supported by any societies and therefore its data were not totally public and were available only to researchers in the cooperating institutions.

In 2001, the Japan Society for Head and Neck Cancer decided to support the Head and Neck Cancer Registry to maintain the quality of its data and created the Cancer Registry Committee to renew the old-fashioned registration system. The first new registration took place in 2003, registering 1,335 head and neck cancer patients treated in 2001.

This supplement is the report of the third year of the new registration.

I would like to express my deepest appreciation to the Japan Society for Head and Neck Cancer for the academic and financial support. I would also like to thank Ms. Kazumi Oono for her help in the management of registration forms. Last but not least, I would like to express my gratitude to all the doctors in the participating institutions.

I hope this English edition will provide valuable information in the field of head and neck oncology not only nationally but internationally.

Unfortunately, the Act on the Protection of Personal Information, which was enforced on Apr. 1, 2005, has made cancer registration very difficult in Japan. Because the Head and Neck Cancer Registry of Japan is not supported by the Act, personal information accumulated in the Registry can be regarded as “illegal.” Governmental support on this issue has not yet been available. To cope with this situation, the Japan Society for Head and Neck Cancer has decided the suspension of the registration of patients treated in 2004 and later. Although the duration of this suspension is not clear at this moment, I hope this problem will be solved as soon as possible.

September 14, 2007

Masahisa Saikawa, MD  
Chairperson  
Cancer Registry Committee,  
Japan Society for Head and Neck Cancer

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Cancer Registry Committee,  
Japan Society for Head and Neck Cancer

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(Sep. 2007)

### Data Collection

All the member institutions of the Japan Society for Head and Neck Cancer were advised to participate in the registration. All the member institutions of the Japanese Society of Oral and Maxillofacial Surgeons were also advised to participate because the Society had decided to cooperate in the registration from this year. The secretariat sent registration forms to institutions which expressed their cooperation. The completed registration forms provide information regarding patients' age and sex, tumor pathology, TNM classifications, site and size of the primary tumor and neck metastases, therapies (surgery, radiation, and chemotherapy), and prognosis. All registration forms returned by 134 institutions were thoroughly reviewed by head and neck oncologists, stored in a computerized data file, and analyzed in the secretariat.

Registration was restricted to previously untreated cancer cases which had pathological confirmation and arose in the aero-digestive tract of the head and neck area, *i.e.* the oral cavity, larynx, hypopharynx, oropharynx, nasopharynx, nasal cavity or paranasal sinuses. Tumors arising in the cervical esophagus were excluded. Head and neck tumors were classified according to the General Rules for Clinical Studies on Head and Neck Cancer (The Third Edition, November 2001, Japan Society for Head and Neck Cancer), which are based on the TNM Classification of Malignant Tumours (Fifth Edition, 1997) of the International Union Against Cancer (UICC).

For head and neck cancer patients treated in 2003, 3,299 completed registration forms were returned to the secretariat, of which 80 were excluded (double registration 53, primary site not meeting the registration criteria 14, treated cases 6, pre-treatment unknown 5, pathology unknown 2), making the total number of registered patients 3,219.

## List of 134 Institutions which participated in the Registry in 2003

1. Department of Otolaryngology-Head and Neck Surgery, Hokkaido University Graduate School of Medicine
2. Division of Oral & Maxillofacial Surgery, Department of Oral Pathobiological Science, Graduate School of Dental Medicine, Hokkaido University
3. Department of Oral Surgery, Department of Clinical Medical Science, Sapporo Medical University School of Medicine
4. Department of Oral and Maxillofacial Surgery, Asahikawa Medical College
5. Department of Dentistry and Oral Surgery, Kushiro Rosai Hospital
6. Department of Dentistry and Oral Surgery, Asahikawa City Hospital
7. Department of Dentistry and Oral Surgery, Hakodate Goryoukaku Hospital
8. Oral Surgery Section of Dental Department, Keiyukai Sapporo Hospital
9. Department of Dentistry and Oral Surgery, Teine Keijinkai Hospital
10. Department of Dentistry and Oral Surgery, Hirosaki University School of Medicine
11. Department of Dentistry and Oral Surgery, Iwate Prefectural Central Hospital
12. Division of Maxillofacial Surgery, Tohoku University Graduate School of Dentistry
13. Division of Oral Surgery, Tohoku University Graduate School of Dentistry
14. Division of Head and Neck Surgery, Miyagi Cancer Center Hospital
15. Division of Dentistry and Oral Surgery, Akita University School of Medicine
16. Department of Oral and Maxillofacial Surgery, Institute of Clinical Medicine, University of Tsukuba
17. Department of Dentistry and Oral Surgery, Okubo Hospital
18. Department of Dentistry and Oral Surgery, Tochigi National Hospital
19. Department of Oral and Maxillofacial Surgery, Dokkyo Medical University School of Medicine
20. Department of Stomatology and Maxillofacial Surgery, Subdivision of Oncology, Division of Biosystem Medicine, Course of Medical Sciences, Graduate School of Medicine, Gunma University Graduate School
21. Department of Head and Neck, Gunma Cancer Center
22. Department of Otorhinolaryngology, National Defense Medical College
23. Department of Oral and Maxillofacial Surgery, National Defense Medical College

24. Second Division of Oral and Maxillofacial Surgery, Department of Diagnostic and Therapeutic Sciences, Meikai University School of Dentistry
25. Department of Head and Neck Surgery, Saitama Cancer Center
26. Division of Otorhinolaryngology, Graduate School of Medicine, Chiba University
27. Division of Oral Surgery, Graduate School of Medicine, Chiba University
28. Department of Oral Surgery, Nihon University School of Dentistry at Matsudo
29. Department of Oral and Maxillofacial Surgery, Tokyo Dental College
30. Department of Dentistry and Oral Surgery, Tokyo Dental College Ichikawa General Hospital
31. Division of Head and Neck Surgery, Chiba Cancer Center Hospital
32. Department of Dentistry and Oral Surgery, Asahi Chuo Hospital
33. Department of Oral Surgery, Kameda Medical Center
34. Head and Neck Surgery Division, National Cancer Center Hospital
35. Department of Oral and Maxillofacial Surgery, Nihon University School of Dentistry
36. Department of Otolaryngology, Nippon Medical School
37. Department of Otorhinolaryngology-Head and Neck Surgery, Graduate School of Medicine, University of Tokyo
38. Department of Oral and Maxillofacial Surgery, Graduate School of Medicine, University of Tokyo
39. Maxillofacial Surgery, Department of Maxillofacial Reconstruction and Function, Division of Maxillofacial and Neck Reconstruction, Graduate School, Tokyo Medical and Dental University
40. Oral and Maxillofacial Surgery, Department of Oral Restitution, Division of Oral Health Sciences, Graduate School, Tokyo Medical and Dental University
41. Department of Otorhinolaryngology, School of Medicine, Keio University
42. Department of Oral and Maxillofacial Surgery, Tokyo Medical University
43. Department of Otolaryngology, Tokyo Women's Medical University
44. Department of Oral and Maxillofacial Surgery, Tokyo Women's Medical University
45. Department of Otorhinolaryngology, The Jikei University School of Medicine
46. Department of Dentistry, Tokyo Metropolitan Ohtsuka Hospital
47. Department of Dentistry and Oral Surgery, Kanto Medical Center NTT EC
48. Department of Dentistry and Oral Surgery, Tokyo Metropolitan Fuchu Hospital

49. Department of Oral and Maxillofacial Surgery, Yokohama City University
50. Department of Oral and Maxillofacial Surgery, Tokai University School of Medicine
51. First Department of Oral and Maxillofacial Surgery, Kanagawa Dental College
52. First Department of Oral and Maxillofacial Surgery, Tsurumi University School of Dental Medicine
53. Second Department of Oral and Maxillofacial Surgery, Tsurumi University School of Dental Medicine
54. Department of Dentistry and Oral Surgery, Kanto Rosai Hospital
55. Department of Dentistry and Oral Surgery, Yokohama Senin Hoken Hospital
56. Department of Dentistry and Oral Surgery, Yokohama Rosai Hospital
57. Division of Oral and Maxillofacial Surgery, Department of Oral Health Science, Course for Oral Life Science, Niigata Graduate School of Medical and Dental Sciences
58. Department of Oral and Maxillofacial Surgery II, The Nippon Dental University School of Life Dentistry at Niigata
59. Department of Dentistry and Oral Surgery, Tonami General Hospital
60. Department of Dentistry and Oral Surgery, Ishikawa Prefectural Central Hospital
61. Department of Otorhinolaryngology Head and Neck Surgery, University of Fukui Faculty of Medical Sciences
62. Division of Dentistry and Oral Surgery, Department of Sensory and Locomotor Medicine, University of Fukui Faculty of Medical Sciences
63. Department of Otolaryngology and Department of Oral Surgery, Yamanashi Prefectural Central Hospital
64. Department of Dental and Oral Surgery, Shinshu University School of Medicine
65. Department of Dentistry and Oral Surgery, Nagano Red Cross Hospital
66. Department of Dentistry and Oral Surgery, Iida Municipal Hospital
67. Department of Oral and Maxillofacial Sciences, Gifu University Graduate School of Medicine
68. Department of Oral and Maxillofacial Surgery I, Asahi University School of Dentistry
69. Department of Oral and Maxillofacial Surgery II, Asahi University School of Dentistry
70. Department of Dentistry and Oral Surgery, Gifu Prefectural Tajimi Hospital
71. Department of Dentistry and Oral Surgery, Ogaki Municipal Hospital
72. Department of Dentistry and Oral Surgery, Tajimi Municipal Hospital

73. Department of Oral and Maxillofacial Surgery, Hamamatsu University School of Medicine
74. Department of Oral Surgery, Shimada Municipal Hospital
75. Department of Dentistry and Oral Surgery, National Hospital Organization Nagoya Medical Center
76. First Department of Oral and Maxillofacial Surgery, School of Dentistry, Aichi-Gakuin University
77. Second Department of Oral and Maxillofacial Surgery, School of Dentistry, Aichi-Gakuin University
78. Department of Head and Neck Surgery, Aichi Cancer Center
79. Department of Dentistry and Oral Surgery, Toyohashi Municipal Hospital
80. Department of Dentistry and Oral Surgery, Tosei General Hospital
81. Department of Dentistry and Oral Surgery, Kasugai Municipal Hospital
82. Department of Dentistry and Oral Surgery, Kariya Toyota General Hospital
83. Department of Dentistry and Oral Surgery, Nagoya Ekisaikai Hospital
84. Department of Dentistry and Oral Surgery, Jouhoku Municipal Hospital, City of Nagoya
85. Department of Dentistry and Oral Surgery, Ise Municipal Hospital
86. Department of Oral and Maxillofacial Surgery, Graduate School of Medicine, Kyoto University
87. Department of Dentistry and Oral Surgery, Rakuwakai Otowa Hospital
88. Department of Otolaryngology, Head and Neck Surgery, Kansai Medical University
89. Department of Oral Surgery, Osaka Medical College
90. First Department of Oral and Maxillofacial Surgery, Osaka University Graduate School of Dentistry
91. Second Department of Oral and Maxillofacial Surgery, Osaka University Graduate School of Dentistry
92. Department of Otolaryngology, Osaka Medical Center for Cancer and Cardiovascular Diseases
93. Division of Otolaryngology-Head and Neck Surgery, Osaka General Medical Center
94. Department of Dentistry and Oral Surgery, Sakai Municipal Hospital
95. Department of Dentistry and Oral Surgery, Ikeda Municipal Hospital
96. Department of Dentistry and Oral Surgery, Osaka Police Hospital
97. Department of Otorhinolaryngology, Osaka Koseinenkin Hospital

98. Department of Oral Surgery, Osaka City General Hospital
99. Department of Dentistry and Oral Surgery, Saiseikai Senri Hospital
100. Department of Oral and Maxillofacial Surgery, Hyogo College of Medicine
101. Department of Head and Neck Surgery, Hyogo Medical Center for Adults
102. Department of Oral and Maxillofacial Surgery, Kobe City Medical Center General Hospital
103. Department of Dentistry and Oral Surgery, Himeji Red Cross Hospital
104. Department of Oral Surgery, Kinki Central Hospital
105. Department of Otorhinolaryngology, Yoka Hospital
106. Department of Dentistry and Oral Surgery, Itami City Hospital
107. Department of Dentistry and Oral Surgery, Nishi-Kobe Medical Center
108. Department of Otorhinolaryngology, Nara Medical University
109. Department of Oral and Maxillofacial Surgery, Nara Medical University
110. Department of Dentistry and Oral Surgery, Kinkidaigakuigakubu Nara Hospital
111. Department of Otolaryngology-Head and Neck Surgery, Wakayama Medical University
112. Division of Oral and Maxillofacial Biopathological Surgery, Department of Medicine of Sensory and Motor Organs, Tottori University Faculty of Medicine
113. Department of Oral and Maxillofacial Reconstructive Surgery, Okayama University Graduate School of Medicine and Dentistry
114. Department of Oral and Maxillofacial Surgery and Biopathology, Okayama University Graduate School of Medicine and Dentistry
115. Department of Oral and Maxillofacial Surgery, Division of Cervico-Gnathostomatology, Graduate School of Biomedical Sciences, Hiroshima University
116. Department of Oral and Maxillofacial Surgery, Yamaguchi University School of Medicine
117. Department of Oral and Maxillofacial Surgery, Division of Medico-Dental Dynamics and Reconstruction, Subdivision of Medical Science for Oral and Maxillofacial Regeneration, The University of Tokushima School of Dentistry
118. Department of Therapeutic Regulation for Oral Tumors, Division of Integrated Sciences of Translational Research, Subdivision of Molecular Oral Medicine, The University of Tokushima School of Dentistry
119. Department of Otorhinolaryngology, Faculty of Medicine, Kagawa University
120. Department of Oral and Maxillofacial Surgery, Faculty of Medicine, Kagawa University



121. Department of Oral and Maxillofacial Surgery, Department of Organ Function Regenerative and Reconstructive Surgery, Ehime University Graduate School of Medicine
122. Department of Dentistry and Oral Surgery, Kochi Health Sciences Center
123. Department of Dentistry and Oral Surgery, National Hospital Organization Kyushu Medical Center
124. Section of Oral and Maxillofacial Surgery, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University
125. Department of Otolaryngology-Head and Neck Surgery, Kurume University School of Medicine
126. Dental and Oral Medical Center, Kurume University School of Medicine
127. First Department of Oral and Maxillofacial Surgery, Kyushu Dental College
128. Department of Dentistry and Oral Surgery, Tagawa Municipal Hospital
129. Department of Otolaryngology-Head and Neck Surgery, Unit of Translational Medicine, Nagasaki University Graduate School of Biomedical Sciences
130. Division of Oral and Maxillofacial Surgery, Department of Developmental and Reconstructive Medicine, Course of Medical and Dental Sciences, Nagasaki University Graduate School of Biomedical Sciences
131. Division of Regenerative Oral Surgery, Unit of Translational Medicine, Nagasaki University Graduate School of Biomedical Sciences
132. Department of Dentistry and Oral Surgery, Miyazaki Prefectural Miyazaki Hospital
133. Department of Maxillofacial Diagnostic and Surgical Science, Field of Oral and Maxillofacial Rehabilitation, Advanced Therapeutics Course, Kagoshima University Graduate School of Medical and Dental Sciences
134. Division of Oral and Maxillofacial Functional Rehabilitation, Department of Clinical Neuroscience, Faculty of Medicine, University of the Ryukyus

## Contents

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Total Cases	-----	1
Oral Cavity	-----	15
Larynx	-----	35
Hypopharynx	-----	56
Oropharynx	-----	65
Nasopharynx	-----	74
Nasal Cavity and Paranasal Sinuses		
Excluding the Maxillary Sinus	-----	82
Maxillary Sinus	-----	90

Total Cases (2003)

3219 Cases

## Head and Neck Carcinoma ----- 3219 Cases

## Primary Site

Site	Number of patients
1) Oral cavity	1901 ( 59.1%)
2) Larynx	504 ( 15.7%)
3) Hypopharynx	308 ( 9.6%)
4) Oropharynx	269 ( 8.4%)
5) Nasopharynx	71 ( 2.2%)
6) Nasal cavity, <i>etc.</i>	49 ( 1.5%)
7) Maxillary sinus	117 ( 3.6%)
Total	3219 (100.0%)

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

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	1	1	0	2
10 - 19	4	3	0	7
20 - 29	23	22	0	45
30 - 39	55	51	0	106
40 - 49	142	51	0	193
50 - 59	556	163	0	719
60 - 69	758	230	0	988
70 - 79	583	267	0	850
80 - 89	143	140	0	283
90 -	7	19	0	26
Unknown	0	0	0	0
Total	2272	947	0	3219

## Head and Neck Carcinoma ----- 3219 Cases

## Histological Distribution by Primary Site

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	
Neoplasm, malign.	12	2	2	4	0	5	3	28
Carcinoma, NOS	5	0	2	1	1	1	2	12
Ca., undiff., NOS	6	1	3	5	13	4	5	37
Spindle cell ca., NOS	1	1	0	0	0	0	0	2
Small cell ca., NOS	0	0	0	0	0	1	0	1
Verrucous ca., NOS	49	0	0	1	0	1	0	51
Papillary S.C.C.	2	0	0	0	0	0	0	2
S.C.C. in situ, NOS	20	5	0	0	0	0	1	26
S.C.C., NOS	1328	401	275	204	47	17	78	2350
S.C.C., kerat., NOS	355	81	15	35	0	3	7	496
S.C.C., large cell, nonkerat.	8	10	7	2	6	0	3	36
S.C.C., small cell, nonkerat.	9	2	0	3	2	0	0	16
S.C.C., spindle cell	6	0	0	0	1	0	1	8
S.C.C. in situ with quest. stromal invasion	2	0	0	0	0	0	0	2
Basaloid S.C.C.	0	1	1	0	0	0	0	2
Adenocarcinoma, NOS	18	0	0	1	0	0	3	22
Adenoid cystic ca.	23	0	1	9	0	3	8	44
Mucoepidermoid ca.	27	0	0	4	1	0	2	34
Acinar cell ca.	1	0	0	0	0	0	1	2
Adenosquamous ca.	2	0	0	0	0	0	0	2
Malign. melanoma, NOS	16	0	0	0	0	10	2	28
Blue nevus, malign.	0	0	2	0	0	0	0	2
Fibrosarcoma, NOS	0	0	0	0	0	1	0	1
Liposarcoma, NOS	2	0	0	0	0	0	0	2
Rhabdomyosarcoma, NOS	0	0	0	0	0	0	1	1
Mixed tumor, malign., NOS	2	0	0	0	0	0	0	2
Hemangiosarcoma	1	0	0	0	0	0	0	1
Osteosarcoma, NOS	2	0	0	0	0	1	0	3
Ewing sarcoma	2	0	0	0	0	0	0	2
Esthesioneuroblastoma	0	0	0	0	0	2	0	2
Malign. lymphoma, NOS	2	0	0	0	0	0	0	2
Total	1901	504	308	269	71	49	117	3219

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

Malign., malign. : malignant.

NOS: not otherwise specified.

Ca., ca. : carcinoma.

undiff. : undifferentiated.

S.C.C. : squamous cell carcinoma.

kerat. : keratinizing.

nonkerat. : nonkeratinizing.

quest. : questionable.

## Head and Neck Carcinoma ----- 3219 Cases

## Histological Distribution by Primary Site (Male)

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	
Neoplasm, malign.	4	1	2	1	0	4	2	14
Carcinoma, NOS	3	0	2	0	1	0	2	8
Ca., undiff., NOS	6	1	3	3	9	4	4	30
Spindle cell ca., NOS	0	1	0	0	0	0	0	1
Small cell ca., NOS	0	0	0	0	0	1	0	1
Verrucous ca., NOS	20	0	0	1	0	0	0	21
Papillary S.C.C.	0	0	0	0	0	0	0	0
S.C.C. in situ, NOS	11	4	0	0	0	0	0	15
S.C.C., NOS	816	373	255	170	40	14	64	1732
S.C.C., kerat., NOS	206	77	15	30	0	2	4	334
S.C.C., large cell, nonkerat.	5	8	7	1	5	0	1	27
S.C.C., small cell, nonkerat.	5	2	0	2	2	0	0	11
S.C.C., spindle cell	5	0	0	0	1	0	1	7
S.C.C. in situ with quest. stromal invasion	1	0	0	0	0	0	0	1
Basaloid S.C.C.	0	1	1	0	0	0	0	2
Adenocarcinoma, NOS	9	0	0	1	0	0	2	12
Adenoid cystic ca.	10	0	1	3	0	1	4	19
Mucoepidermoid ca.	11	0	0	3	0	0	1	15
Acinar cell ca.	0	0	0	0	0	0	0	0
Adenosquamous ca.	1	0	0	0	0	0	0	1
Malign. melanoma, NOS	10	0	0	0	0	4	1	15
Blue nevus, malign.	0	0	1	0	0	0	0	1
Fibrosarcoma, NOS	0	0	0	0	0	0	0	0
Liposarcoma, NOS	0	0	0	0	0	0	0	0
Rhabdomyosarcoma, NOS	0	0	0	0	0	0	0	0
Mixed tumor, malign., NOS	1	0	0	0	0	0	0	1
Hemangiosarcoma	1	0	0	0	0	0	0	1
Osteosarcoma, NOS	1	0	0	0	0	0	0	1
Ewing sarcoma	0	0	0	0	0	0	0	0
Esthesioneuroblastoma	0	0	0	0	0	2	0	2
Malign. lymphoma, NOS	0	0	0	0	0	0	0	0
Total	1126	468	287	215	58	32	86	2272

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

Malign., malign. : malignant.

NOS: not otherwise specified.

Ca., ca. : carcinoma.

undiff. : undifferentiated.

S.C.C. : squamous cell carcinoma.

kerat. : keratinizing.

nonkerat. : nonkeratinizing.

quest. : questionable.

## Head and Neck Carcinoma ----- 3219 Cases

## Histological Distribution by Primary Site (Female)

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	
Neoplasm, malign.	8	1	0	3	0	1	1	14
Carcinoma, NOS	2	0	0	1	0	1	0	4
Ca., undiff., NOS	0	0	0	2	4	0	1	7
Spindle cell ca., NOS	1	0	0	0	0	0	0	1
Small cell ca., NOS	0	0	0	0	0	0	0	0
Verrucous ca., NOS	29	0	0	0	0	1	0	30
Papillary S.C.C.	2	0	0	0	0	0	0	2
S.C.C. in situ, NOS	9	1	0	0	0	0	1	11
S.C.C., NOS	512	28	20	34	7	3	14	618
S.C.C., kerat., NOS	149	4	0	5	0	1	3	162
S.C.C., large cell, nonkerat.	3	2	0	1	1	0	2	9
S.C.C., small cell, nonkerat.	4	0	0	1	0	0	0	5
S.C.C., spindle cell	1	0	0	0	0	0	0	1
S.C.C. in situ with quest. stromal invasion	1	0	0	0	0	0	0	1
Basaloid S.C.C.	0	0	0	0	0	0	0	0
Adenocarcinoma, NOS	9	0	0	0	0	0	1	10
Adenoid cystic ca.	13	0	0	6	0	2	4	25
Mucoepidermoid ca.	16	0	0	1	1	0	1	19
Acinar cell ca.	1	0	0	0	0	0	1	2
Adenosquamous ca.	1	0	0	0	0	0	0	1
Malig. melanoma, NOS	6	0	0	0	0	6	1	13
Blue nevus, malign.	0	0	1	0	0	0	0	1
Fibrosarcoma, NOS	0	0	0	0	0	1	0	1
Liposarcoma, NOS	2	0	0	0	0	0	0	2
Rhabdomyosarcoma, NOS	0	0	0	0	0	0	1	1
Mixed tumor, malign., NOS	1	0	0	0	0	0	0	1
Hemangiosarcoma	0	0	0	0	0	0	0	0
Osteosarcoma, NOS	1	0	0	0	0	1	0	2
Ewing sarcoma	2	0	0	0	0	0	0	2
Esthesioneuroblastoma	0	0	0	0	0	0	0	0
Malig. lymphoma, NOS	2	0	0	0	0	0	0	2
Total	775	36	21	54	13	17	31	947

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

Malig., malign. : malignant.

NOS: not otherwise specified.

Ca., ca. : carcinoma.

undiff. : undifferentiated.

S.C.C. : squamous cell carcinoma.

kerat. : keratinizing.

nonkerat. : nonkeratinizing.

quest. : questionable.

## Head and Neck Carcinoma ----- 3219 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
Tis	11	0	0	0	0	0	0	0	0	11
T1	680	27	5	6	31	7	9	6	0	771
T2	770	173	7	32	158	59	18	5	0	1222
T3	247	90	3	12	88	70	11	5	0	526
T4	226	104	5	10	148	114	24	6	0	637
TX	1	1	0	0	2	0	2	5	0	11
T-	33	0	0	0	2	0	0	3	1	39
Total	1970	395	20	60	429	250	64	30	1	3219

T-: T classification not defined.

N-: N classification not defined.

## T and N Status (M0 Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	1
Tis	11	0	0	0	0	0	0	0	0	11
T1	665	22	3	6	30	7	6	3	0	742
T2	747	159	7	27	147	58	17	1	0	1163
T3	231	85	3	10	80	67	10	0	0	486
T4	206	91	4	8	133	102	14	1	0	559
TX	0	1	0	0	0	0	2	2	0	5
T-	27	0	0	0	1	0	0	1	0	29
Total	1888	358	17	51	391	234	49	8	0	2996

T-: T classification not defined.

N-: N classification not defined.



## Head and Neck Carcinoma ----- 3219 Cases

## T and N Status (M1 Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	1
Tis	0	0	0	0	0	0	0	0	0	0
T1	1	2	2	0	0	0	2	1	0	8
T2	2	6	0	2	4	1	0	0	0	15
T3	3	1	0	1	5	2	1	0	0	13
T4	8	8	1	0	10	7	5	0	0	39
TX	0	0	0	0	1	0	0	0	0	1
T-	1	0	0	0	1	0	0	0	0	2
Total	16	17	3	3	21	10	8	1	0	79

T-: T classification not defined.

N-: N classification not defined.

## T and N Status (MX Cases)

	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	14	3	0	0	1	0	1	2	0	21
T2	21	8	0	3	7	0	1	4	0	44
T3	13	4	0	1	3	1	0	5	0	27
T4	12	5	0	2	5	5	5	5	0	39
TX	1	0	0	0	1	0	0	3	0	5
T-	5	0	0	0	0	0	0	2	1	8
Total	66	20	0	6	17	6	7	21	1	144

T-: T classification not defined.

N-: N classification not defined.

## Head and Neck Carcinoma ----- 3219 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, <i>etc.</i>	(7) Maxil- lary sinus	Total
Surgery								
0) Without	336	351	142	165	66	23	38	1121
1) With	1565	153	166	104	5	26	79	2098
9) Unknown	0	0	0	0	0	0	0	0
Radiotherapy								
0) Without	1311	101	88	68	12	9	24	1613
1) With	586	400	219	199	59	40	93	1596
9) Unknown	4	3	1	2	0	0	0	10
Chemotherapy								
0) Without	1086	358	134	125	17	25	28	1773
1) With	811	142	173	143	54	24	89	1436
9) Unknown	4	4	1	1	0	0	0	10
Total	1901	504	308	269	71	49	117	3219

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, <i>etc.</i>	(7) Maxil- lary sinus	Total
Surgery								
0) Without	1133	410	136	174	63	47	90	2053
1) With	763	91	171	95	8	2	27	1157
9) Unknown	5	3	1	0	0	0	0	9
Radiotherapy								
0) Without	1526	391	99	108	25	40	87	2276
1) With	350	96	201	156	45	9	25	882
9) Unknown	25	17	8	5	1	0	5	61
Chemotherapy								
0) Without	1418	441	148	154	28	41	94	2324
1) With	469	58	159	114	43	8	22	873
9) Unknown	14	5	1	1	0	0	1	22
Total	1901	504	308	269	71	49	117	3219

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

## Head and Neck Carcinoma ----- 3219 Cases

## Sequence of Treatment Methods for the Primary Lesion by Primary Site

Sequence of treatment methods	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, <i>etc.</i>	(7) Maxillary sinus	Total
No treatment	71	10	6	13	5	2	7	114
A) Surg. alone	828	79	46	39	1	3	10	1006
B) Rad. alone	69	236	35	51	11	7	3	412
F) (Rad. +Chem.)	89	84	58	64	25	11	21	352
CA) Chem. ->Surg.	232	10	23	6	1	1	1	274
FA) (Rad. +Chem.)->Surg.	112	6	16	10	1	0	13	158
AB) Surg. ->Rad.	59	24	37	17	0	10	4	151
AC) Surg. ->Chem.	93	1	4	2	1	2	0	103
BA) Rad. ->Surg.	48	9	6	6	0	3	3	75
CB) Chem. ->Rad.	19	7	19	18	8	1	1	73
C) Chem. alone	45	1	7	7	4	0	3	67
AF) Surg. ->(Rad. +Chem.)	23	9	6	4	0	1	10	53
CAB) Chem. ->Surg. ->Rad.	28	0	9	5	0	1	4	47
CAC) Chem. ->Surg. ->Chem.	27	0	0	1	0	1	2	31
ABC) Surg. ->Rad. ->Chem.	12	3	7	3	1	1	0	27
BC) Rad. ->Chem.	7	4	3	3	9	0	1	27
FC) (Rad. +Chem.)->Chem.	17	1	5	1	0	0	1	25
CF) Chem. ->(Rad. +Chem.)	6	2	4	3	2	1	1	19
CBA) Chem. ->Rad. ->Surg.	11	2	1	4	0	0	0	18
G) (Surg. +Rad. +Chem.)	10	0	0	1	0	0	7	18
Others	90	13	13	10	2	4	24	156
Unknown	5	3	3	1	0	0	1	13
Total	1901	504	308	269	71	49	117	3219

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 Carcinoma ----- 3219 Cases

## Surgical Method for the Primary Lesion by Primary Site

Surgical method		(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, <i>etc.</i>	(7) Maxillary sinus	Total
H0)	No surgery	336	351	142	165	66	23	38	1121
A1)	Partial glossectomy	556	0	0	0	0	0	0	556
E1)	Partial maxillectomy	147	0	0	1	0	9	25	182
A2)	Hemiglossectomy	104	0	0	1	0	0	1	106
H4)	Resection of the buccal mucosa	86	0	0	0	0	0	0	86
H2)	Resection of the floor of mouth	83	0	0	0	0	0	0	83
F3)	Segmental mandibulectomy	82	0	0	0	0	0	0	82
F2)	Marginal mandibulectomy	74	0	0	1	0	0	0	75
C4)	Total laryngectomy	0	73	0	0	0	0	0	73
C9)	Laryngectomy, other type	0	36	0	0	0	0	0	36
A3)	Subtotal glossectomy	33	0	0	2	0	0	0	35
D2C4H6)	Pharyngolaryngoesophagectomy	0	0	33	0	0	0	0	33
E9)	Maxillectomy, other type	15	0	0	0	0	0	13	28
E3)	Total maxillectomy	6	0	0	0	0	0	21	27
D1)	Partial hypopharyngectomy	0	0	26	0	0	0	0	26
E2)	Subtotal maxillectomy	15	0	0	0	0	0	5	20
H3)	Resection of the lower gingiva	20	0	0	0	0	0	0	20
B3)	Unilateral resection of the lateral wall of the oropharynx	1	0	0	18	0	0	0	19
D2C4)	Total pharyngolaryngectomy	0	1	17	0	0	0	0	18
H9)+	Others	325	38	86	75	5	14	14	557
	Unknown	18	5	4	6	0	3	0	36
Total		1901	504	308	269	71	49	117	3219

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

## Head and Neck Carcinoma ----- 3219 Cases

## Neck Dissection on the Ipsilateral Side by Primary Site

Neck dissection	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, <i>etc.</i>	(7) Maxil- lary sinus	Total
0) No N.D.	1136	411	136	174	63	47	90	2057
1) Radical N.D.	243	19	75	48	4	0	3	392
2) Conservative N.D.	282	59	87	40	4	1	16	489
3) Upper N.D.	165	0	0	3	0	0	7	175
4) Partial N.D.	37	6	6	1	0	1	1	52
5) Enucleation	16	1	2	1	0	0	0	20
8) Others	3	0	0	0	0	0	0	3
9) Unknown	19	8	2	2	0	0	0	31
Total	1901	504	308	269	71	49	117	3219

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) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, <i>etc.</i>	(7) Maxil- lary sinus	Total
0) No N.D.	1685	449	179	237	67	49	113	2779
1) Radical N.D.	14	2	7	6	0	0	2	31
2) Conservative N.D.	69	35	95	19	3	0	2	223
3) Upper N.D.	77	1	0	3	1	0	0	82
4) Partial N.D.	20	7	22	2	0	0	0	51
5) Enucleation	8	2	1	0	0	0	0	11
8) Others	2	0	0	0	0	0	0	2
9) Unknown	26	8	4	2	0	0	0	40
Total	1901	504	308	269	71	49	117	3219

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

N.D. : neck dissection.

## Head and Neck Carcinoma ----- 3219 Cases

## Reconstructive Surgery by Primary Site

Reconstructive surgery	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, <i>etc.</i>	(7) Maxillary sinus	Total
0) No reconstruction	1264	489	168	215	68	45	88	2337
D) Free RA MC flap	101	0	2	28	0	0	14	145
C) Free FA flap	110	2	17	8	0	1	0	138
1) Skin graft	121	0	0	2	0	0	9	132
B) Free jejunal flap	4	4	97	0	0	0	0	105
E) Free anterolateral thigh flap	50	0	6	4	0	0	0	60
5) PM MC flap	39	2	2	5	0	0	0	48
2) Local skin flap	28	2	1	2	0	3	1	37
C1) Free FA flap + skin graft	29	0	2	1	0	0	0	32
G) Free fibular OC flap	22	0	0	0	0	0	0	22
4) DP flap	11	2	1	0	0	0	0	14
3) Mucosal flap	10	0	0	0	1	0	0	11
F) Free scapular OC flap	8	0	0	0	0	0	1	9
D8) Free RA MC flap + others	5	0	0	0	0	0	1	6
41) DP flap + skin graft	4	0	1	0	0	0	0	5
8)+ Others	92	3	8	4	2	0	3	112
9) Unknown	3	0	3	0	0	0	0	6
Total	1901	504	308	269	71	49	117	3219

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

RA: rectus abdominis.

MC: musculocutaneous.

FA: forearm.

PM: pectoralis major.

OC: osteocutaneous.

DP: deltopectoral.

## Head and Neck Carcinoma ----- 3219 Cases

## Radiotherapy by Primary Site

Type of radiotherapy	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, <i>etc.</i>	(7) Maxillary sinus	Total
0) No radiotherapy	1270	99	78	65	12	8	23	1555
1) X-ray	355	379	211	178	55	36	79	1293
2) <sup>60</sup> Co $\gamma$ -ray	115	11	2	12	0	2	4	146
3) Electron beam	56	3	3	4	0	0	2	68
13) X-ray + electron beam	14	1	5	2	3	1	2	28
7) HDR B. T. with <sup>60</sup> Co	11	0	0	0	0	0	0	11
D) LDR B. T. with <sup>198</sup> Au	8	0	0	0	0	0	0	8
B) LDR B. T. with <sup>137</sup> Cs	6	0	0	1	0	0	0	7
14) X-ray + Proton beam	3	0	1	2	0	0	0	6
6) HDR B. T. with <sup>192</sup> Ir	4	0	0	0	0	0	1	5
B1) LDR B. T. with <sup>137</sup> Cs + X-ray	5	0	0	0	0	0	0	5
1D) X-ray + LDR B. T. with <sup>198</sup> Au	2	0	0	2	0	0	0	4
D1) LDR B. T. with <sup>198</sup> Au + X-ray	4	0	0	0	0	0	0	4
12) X-ray + <sup>60</sup> Co $\gamma$ -ray	0	0	3	0	0	0	0	3
8)+ Others	16	0	1	1	0	2	2	22
9) Unknown	32	11	4	2	1	0	4	54
Total	1901	504	308	269	71	49	117	3219

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

HDR: high dose rate.

B. T. : brachytherapy.

LDR: low dose rate.

## Head and Neck Carcinoma ----- 3219 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, <i>etc.</i>	(7) Maxillary sinus	Total
0) No chemotherapy	1084	358	133	124	17	25	27	1768
1) Intravenous	384	122	153	118	46	17	32	872
2) Intraarterial	153	3	4	16	2	7	52	237
3) Oral	217	11	14	8	5	0	1	256
8) Others	36	0	0	0	0	0	1	37
9) Unknown	27	10	4	3	1	0	4	49
Total	1901	504	308	269	71	49	117	3219

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



Oral Cavity (2003)

1901 Cases

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Subsite

Subsite	Number of patients
1) Lip	17 ( 0.9%)
2) Buccal mucosa	154 ( 8.1%)
3) Retromolar area	21 ( 1.1%)
4) Lower gingiva	333 ( 17.5%)
5) Upper gingiva	226 ( 11.9%)
6) Hard palate	63 ( 3.3%)
7) Floor of mouth	189 ( 9.9%)
8) Tongue	897 ( 47.2%)
9) Oral cavity, NOS	1 ( 0.1%)
Total	1901 (100.0%)

NOS: not otherwise specified.

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	1	0	0	1
10 - 19	1	1	0	2
20 - 29	21	17	0	38
30 - 39	40	46	0	86
40 - 49	92	40	0	132
50 - 59	255	118	0	373
60 - 69	350	189	0	539
70 - 79	271	217	0	488
80 - 89	88	128	0	216
90 -	7	19	0	26
Unknown	0	0	0	0
Total	1126	775	0	1901

## Carcinoma of the Lip

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	0	0	0
30 - 39	0	0	0	0
40 - 49	1	0	0	1
50 - 59	1	2	0	3
60 - 69	3	1	0	4
70 - 79	5	2	0	7
80 - 89	0	2	0	2
90 -	0	0	0	0
Unknown	0	0	0	0
Total	10	7	0	17

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Carcinoma of the Buccal Mucosa

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	1	1	0	2
30 - 39	3	4	0	7
40 - 49	4	0	0	4
50 - 59	11	9	0	20
60 - 69	23	20	0	43
70 - 79	22	30	0	52
80 - 89	6	13	0	19
90 -	0	7	0	7
Unknown	0	0	0	0
Total	70	84	0	154

## Carcinoma of the Retromolar Area

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	0	0	0
30 - 39	1	1	0	2
40 - 49	0	0	0	0
50 - 59	1	1	0	2
60 - 69	8	1	0	9
70 - 79	5	0	0	5
80 - 89	2	0	0	2
90 -	1	0	0	1
Unknown	0	0	0	0
Total	18	3	0	21

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Carcinoma of the Lower Gingiva

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	1	0	0	1
20 - 29	0	0	0	0
30 - 39	1	3	0	4
40 - 49	7	6	0	13
50 - 59	33	17	0	50
60 - 69	58	51	0	109
70 - 79	59	37	0	96
80 - 89	18	36	0	54
90 -	2	4	0	6
Unknown	0	0	0	0
Total	179	154	0	333

## Carcinoma of the Upper Gingiva

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	1	0	1
30 - 39	1	2	0	3
40 - 49	7	0	0	7
50 - 59	14	21	0	35
60 - 69	27	23	0	50
70 - 79	39	50	0	89
80 - 89	16	22	0	38
90 -	2	1	0	3
Unknown	0	0	0	0
Total	106	120	0	226

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Carcinoma of the Hard Palate

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	1	0	0	1
10 - 19	0	1	0	1
20 - 29	1	1	0	2
30 - 39	3	1	0	4
40 - 49	1	1	0	2
50 - 59	5	6	0	11
60 - 69	9	6	0	15
70 - 79	5	9	0	14
80 - 89	4	7	0	11
90 -	1	1	0	2
Unknown	0	0	0	0
Total	30	33	0	63

## Carcinoma of the Floor of Mouth

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	0	0	0
30 - 39	1	1	0	2
40 - 49	7	0	0	7
50 - 59	49	10	0	59
60 - 69	52	11	0	63
70 - 79	29	11	0	40
80 - 89	7	8	0	15
90 -	1	2	0	3
Unknown	0	0	0	0
Total	146	43	0	189

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Carcinoma of the Tongue

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	19	14	0	33
30 - 39	30	34	0	64
40 - 49	65	33	0	98
50 - 59	141	52	0	193
60 - 69	170	76	0	246
70 - 79	107	77	0	184
80 - 89	35	40	0	75
90 -	0	4	0	4
Unknown	0	0	0	0
Total	567	330	0	897

## Carcinoma of the Oral Cavity, NOS

## Age Distribution by Gender

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

NOS: not otherwise specified.

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Histological Distribution by Subsite

Histologic type	(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
Neoplasm, malig.	1	1	0	4	3	2	1	0	0	12
Carcinoma, NOS	0	1	0	1	0	0	1	2	0	5
Ca., undiff., NOS	0	0	0	4	0	0	0	2	0	6
Spindle cell ca., NOS	0	0	0	0	0	0	0	1	0	1
Verrucous ca., NOS	1	9	0	9	10	1	5	14	0	49
Papillary S.C.C.	0	0	0	2	0	0	0	0	0	2
S.C.C. in situ, NOS	0	4	0	0	0	0	3	13	0	20
S.C.C., NOS	9	97	12	239	145	25	132	668	1	1328
S.C.C., kerat., NOS	4	22	4	66	51	4	31	173	0	355
S.C.C., large cell, nonkerat.	0	2	1	0	0	1	0	4	0	8
S.C.C., small cell, nonkerat.	0	2	0	0	1	0	3	3	0	9
S.C.C., spindle cell	0	1	1	2	0	0	0	2	0	6
S.C.C. in situ with quest. stromal inv.	0	0	0	0	0	1	0	1	0	2
Adenocarcinoma, NOS	0	2	0	1	2	7	2	4	0	18
Adenoid cystic ca.	1	3	1	0	2	3	7	6	0	23
Mucoepidermoid ca.	0	6	2	1	3	10	3	2	0	27
Acinar cell ca.	0	0	0	0	0	1	0	0	0	1
Adenosquamous ca.	0	1	0	0	1	0	0	0	0	2
Malig. melanoma, NOS	1	1	0	1	6	6	0	1	0	16
Liposarcoma, NOS	0	1	0	0	0	0	0	1	0	2
Mixed tumor, malig., NOS	0	0	0	0	0	1	1	0	0	2
Hemangiosarcoma	0	0	0	0	1	0	0	0	0	1
Osteosarcoma, NOS	0	0	0	2	0	0	0	0	0	2
Ewing sarcoma	0	0	0	0	1	1	0	0	0	2
Malig. lymphoma, NOS	0	1	0	1	0	0	0	0	0	2
Total	17	154	21	333	226	63	189	897	1	1901

NOS: not otherwise specified.  
undiff.: undifferentiated.  
nonkerat.: nonkeratinizing.

Malig., malig.: malignant.  
S.C.C.: squamous cell carcinoma.  
quest.: questionable.

Ca., ca.: carcinoma.  
kerat.: keratinizing.  
inv.: invasion.



## Carcinoma of the Oral Cavity ----- 1901 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	8	0	0	0	0	0	0	0	0	8
T1	435 (1)	10 (1)	0	1	16	2	2	5 (1)	0	471
T2	514 (1)	118 (3)	2	10	111 (2)	20	3	2	0	780
T3	127 (2)	44 (1)	2	5	42	28 (1)	1	4	0	253
T4	135 (3)	63 (1)	1	6	100 (7)	68 (5)	6 (1)	3	0	382
TX	1	1	0	0	0	0	0	3	0	5
T-	1	0	0	0	0	0	0	0	1	2
Total	1221	236	5	22	269	118	12	17	1	1901

M1: 30 cases. Numbers in parentheses indicate numbers of M1 cases.

T-: T classification not defined.

N-: N classification not defined.

## 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	0	0	1	0	8
T2	5	2	0	0	0	0	0	0	0	7
T3	1	1	0	0	0	0	0	0	0	2
T4	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	0	0
Total	13	3	0	0	0	0	0	1	0	17

M1: 0 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Carcinoma of the Buccal Mucosa

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	24 *	2 *	0	0	1	0	0	2 *	0	29
T2	48	10	0	6	13	0	1	0	0	78
T3	11	2	0	1	3	2	0	0	0	19
T4	11 *	6	0	0	5 *	3	1	0	0	26
TX	0	0	0	0	0	0	0	1	0	1
T-	0	0	0	0	0	0	0	0	1	1
Total	94	20	0	7	22	5	2	3	1	154

M1: 5 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## 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	0	0	0	0	0	0	0	0	0	0
T1	1	0	0	0	0	0	0	0	0	1
T2	7	2	0	0	2	0	0	0	0	11
T3	1	0	0	0	1	0	0	0	0	2
T4	2	1	0	0	3	1	0	0	0	7
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	11	3	0	0	6	1	0	0	0	21

M1: 0 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Carcinoma of the Lower Gingiva

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	35	1	0	1	1	0	0	0	0	38
T2	69	21	0	1	18 *	2	0	1	0	112
T3	19	8 *	0	1	7	1	0	0	0	36
T4	45	29 *	0	2	48 ***	20 *	1	0	0	145
TX	1	0	0	0	0	0	0	0	0	1
T-	1	0	0	0	0	0	0	0	0	1
Total	170	59	0	5	74	23	1	1	0	333

M1: 7 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## 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	0	0	0	0	0	0	0	0	0	0
T1	32	1	0	0	1	1	0	0	0	35
T2	69	8	0	0	10	4	0	0	0	91
T3	16 **	3	0	0	3	0	1	3	0	26
T4	36	10	0	0	16 *	10 *	0	2	0	74
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	153	22	0	0	30	15	1	5	0	226

M1: 4 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Oral Cavity ----- 1901 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	0	0	0	0	0	0	0	0	0	0
T1	12	0	0	0	0	0	0	1	0	13
T2	21	1	0	0	1	0	0	0	0	23
T3	10	1	0	0	1	0	0	0	0	12
T4	11 *	2	0	0	0	1	1 *	0	0	15
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	54	4	0	0	2	1	1	1	0	63

M1: 2 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## 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	33	0	0	0	2	1	1	0	0	37
T2	47	13	0	1	15	6	2	0	0	84
T3	8	6	1	0	3	5	0	0	0	23
T4	9 *	7	0	2	8 *	17 *	0	1	0	44
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	98	26	1	3	28	29	3	1	0	189

M1: 3 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Carcinoma of the Tongue

## 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	7	0	0	0	0	0	0	0	0	7
T1	291	6	0	0	11	0	1	1	0	310
T2	248 *	61 ***	2	1	52 *	8	0	1	0	373
T3	61	23	1	3	24	20 *	0	1	0	133
T4	21	8	1	2	20 *	16 **	3	0	0	71
TX	0	1	0	0	0	0	0	2	0	3
T-	0	0	0	0	0	0	0	0	0	0
Total	628	99	4	6	107	44	4	5	0	897

M1: 9 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## 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	0	0	0	0	0	0	0	0	0	0
T2	0	0	0	1	0	0	0	0	0	1
T3	0	0	0	0	0	0	0	0	0	0
T4	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	0	0
Total	0	0	0	1	0	0	0	0	0	1

M1: 0 case.

NOS: not otherwise specified.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Oral Cavity ----- 1901 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										
0) Without	2	39	6	66	46	18	41	117	1	336
1) With	15	115	15	267	180	45	148	780	0	1565
9) Unknown	0	0	0	0	0	0	0	0	0	0
Radiotherapy										
0) Without	14	101	10	204	124	45	123	689	1	1311
1) With	3	52	11	129	102	18	65	206	0	586
9) Unknown	0	1	0	0	0	0	1	2	0	4
Chemotherapy										
0) Without	10	81	12	157	98	39	104	584	1	1086
1) With	7	72	9	176	128	24	84	311	0	811
9) Unknown	0	1	0	0	0	0	1	2	0	4
Total	17	154	21	333	226	63	189	897	1	1901

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										
0) Without	13	99	11	136	153	55	99	566	1	1133
1) With	4	54	10	196	73	8	89	329	0	763
9) Unknown	0	1	0	1	0	0	1	2	0	5
Radiotherapy										
0) Without	16	121	17	241	184	59	143	744	1	1526
1) With	1	28	4	86	40	3	44	144	0	350
9) Unknown	0	5	0	6	2	1	2	9	0	25
Chemotherapy										
0) Without	15	108	15	216	171	54	132	706	1	1418
1) With	2	44	6	114	54	9	55	185	0	469
9) Unknown	0	2	0	3	1	0	2	6	0	14
Total	17	154	21	333	226	63	189	897	1	1901

NOS: not otherwise specified.

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
No treatment	1	4	0	13	9	7	8	28	1	71
A) Surg. alone	9	59	8	105	65	25	75	482	0	828
CA) Chem. ->Surg.	3	18	1	55	25	6	26	98	0	232
FA) (Rad. +Chem.) ->Surg.	1	8	0	26	25	2	11	39	0	112
AC) Surg. ->Chem.	1	9	0	16	11	2	7	47	0	93
F) (Rad. +Chem.)	1	13	2	26	11	4	7	25	0	89
B) Rad. alone	0	10	1	8	9	4	10	27	0	69
AB) Surg. ->Rad.	0	4	1	16	4	1	7	26	0	59
BA) Rad. ->Surg.	0	3	2	13	10	0	4	16	0	48
C) Chem. alone	0	6	1	9	8	2	5	14	0	45
CAB) Chem. ->Surg. ->Rad.	0	1	1	4	8	0	3	11	0	28
CAC) Chem. ->Surg. ->Chem.	0	2	0	5	3	3	2	12	0	27
AF) Surg. ->(Rad. +Chem.)	0	2	0	5	3	2	4	7	0	23
CB) Chem. ->Rad.	0	1	0	4	2	0	4	8	0	19
FC) (Rad. +Chem.) ->Chem.	0	2	0	5	4	1	1	4	0	17
ABC) Surg. ->Rad. ->Chem.	0	0	1	2	5	0	1	3	0	12
CBA) Chem. ->Rad. ->Surg.	0	3	0	2	1	1	1	3	0	11
FAC) (Rad. +Chem.) ->Surg. ->Chem.	0	0	0	5	1	0	2	3	0	11
G) (Surg. +Rad. +Chem.)	0	0	0	2	4	1	1	2	0	10
BAC) Rad. ->Surg. ->Chem.	1	1	0	2	3	0	0	1	0	8
Others	0	7	3	10	15	2	9	38	0	84
Unknown	0	1	0	0	0	0	1	3	0	5
Total	17	154	21	333	226	63	189	897	1	1901

NOS: not otherwise specified.

Surg.: surgery.

Chem.: chemotherapy.

Rad.: radiotherapy.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Surgical Method 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	
H0)	No surgery	2	39	6	66	46	18	41	117	1	336
A1)	Partial glossectomy	0	0	0	0	0	0	1	555	0	556
E1)	Partial maxillectomy	0	0	1	2	119	25	0	0	0	147
A2)	Hemiglossectomy	0	0	0	0	0	0	0	104	0	104
H4)	Resection of the buccal mucosa	0	81	3	0	1	1	0	0	0	86
H2)	Resection of the floor of mouth	0	0	0	0	0	0	82	1	0	83
F3)	Segmental mandibulectomy	0	0	1	77	2	0	2	0	0	82
F2)	Marginal mandibulectomy	0	0	2	68	2	0	2	0	0	74
A3)	Subtotal glossectomy	0	0	0	0	0	0	0	33	0	33
H3)	Resection of the lower gingiva	0	0	0	18	2	0	0	0	0	20
E2)	Subtotal maxillectomy	0	0	0	0	13	2	0	0	0	15
E9)	Maxillectomy, other type	0	0	0	0	8	7	0	0	0	15
F4)	Hemimandibulectomy	0	0	0	15	0	0	0	0	0	15
H1)	Resection of the lip	13	2	0	0	0	0	0	0	0	15
H2F2)	Resection of the floor of mouth with marginal mandibulectomy	0	0	0	0	0	0	15	0	0	15
H3F2)	Resection of the lower gingiva with marginal mandibulectomy	0	0	0	12	0	0	0	0	0	12
H9)+	Others	1	31	7	73	30	10	46	77	0	275
	Unknown	1	1	1	2	3	0	0	10	0	18
Total		17	154	21	333	226	63	189	897	1	1901

NOS: not otherwise specified.



## Carcinoma of the Oral Cavity ----- 1901 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.	13	99	11	136	156	55	99	566	1	1136
1) Radical N.D.	3	18	3	56	21	2	28	112	0	243
2) Conservative N.D.	0	20	5	67	26	4	33	127	0	282
3) Upper N.D.	1	10	2	45	15	2	22	68	0	165
4) Partial N.D.	0	3	0	19	3	0	3	9	0	37
5) Enucleation	0	1	0	5	5	0	0	5	0	16
8) Others	0	0	0	1	0	0	0	2	0	3
9) Unknown	0	3	0	4	0	0	4	8	0	19
Total	17	154	21	333	226	63	189	897	1	1901

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.	17	144	21	292	210	62	133	805	1	1685
1) Radical N.D.	0	0	0	5	1	0	3	5	0	14
2) Conservative N.D.	0	3	0	15	6	0	19	26	0	69
3) Upper N.D.	0	1	0	10	6	0	23	37	0	77
4) Partial N.D.	0	0	0	4	0	0	6	10	0	20
5) Enucleation	0	0	0	2	3	0	1	2	0	8
8) Others	0	0	0	0	0	0	0	2	0	2
9) Unknown	0	6	0	5	0	1	4	10	0	26
Total	17	154	21	333	226	63	189	897	1	1901

NOS: not otherwise specified.

N.D.: neck dissection.

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Reconstructive Surgery by Subsite

Reconstructive surgery	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No reconstruction	14	93	13	171	175	57	102	638	1	1264
1) Skin graft	0	24	0	8	30	1	15	43	0	121
C) Free FA flap	0	13	2	17	4	0	15	59	0	110
D) Free RA MC flap	0	2	1	21	7	1	10	59	0	101
E) Free anterolateral thigh flap	0	7	1	6	2	0	10	24	0	50
5) PM MC flap	0	1	1	15	0	0	7	15	0	39
C1) Free FA flap + skin graft	0	2	0	6	0	0	5	16	0	29
2) Local skin flap	3	2	0	8	0	1	5	9	0	28
G) Free fibular OC flap	0	0	0	19	0	1	1	1	0	22
4) DP flap	0	1	0	5	0	0	1	4	0	11
3) Mucosal flap	0	0	0	3	1	2	2	2	0	10
F) Free scapular OC flap	0	0	0	7	1	0	0	0	0	8
D8) Free RA MC flap + others	0	0	0	2	1	0	1	1	0	5
41) DP flap + skin graft	0	1	0	0	0	0	0	3	0	4
B) Free jejunal flap	0	0	0	0	0	0	3	1	0	4
6) LD MC flap	0	1	0	1	0	0	0	1	0	3
8)+ Others	0	7	3	43	4	0	12	20	0	89
9) Unknown	0	0	0	1	1	0	0	1	0	3
Total	17	154	21	333	226	63	189	897	1	1901

NOS: not otherwise specified.

MC: musculocutaneous.

DP: deltopectoral.

FA: forearm.

PM: pectoralis major.

LD: latissimus dorsi.

RA: rectus abdominis.

OC: osteocutaneous.

## Carcinoma of the Oral Cavity ----- 1901 Cases

## Radiotherapy by Subsite

Type of radiotherapy	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No radiotherapy	14	97	10	202	118	45	119	664	1	1270
1) X-ray	1	32	8	78	68	8	38	122	0	355
2) <sup>60</sup> Co $\gamma$ -ray	0	10	1	25	22	8	13	36	0	115
3) Electron beam	1	3	1	16	9	1	5	20	0	56
13) X-ray + electron beam	1	1	1	0	1	0	2	8	0	14
7) HDR B. T. with <sup>60</sup> Co	0	1	0	2	2	0	2	4	0	11
D) LDR B. T. with <sup>198</sup> Au	0	0	0	0	0	0	4	4	0	8
B) LDR B. T. with <sup>137</sup> Cs	0	0	0	0	0	0	0	6	0	6
B1) LDR B. T. with <sup>137</sup> Cs + X-ray	0	1	0	0	0	0	0	4	0	5
6) HDR B. T. with <sup>192</sup> Ir	0	0	0	0	0	0	0	4	0	4
D1) LDR B. T. with <sup>198</sup> Au + X-ray	0	0	0	0	0	0	0	4	0	4
14) X-ray + Proton beam	0	0	0	1	0	0	2	0	0	3
1B) X-ray + LDR B. T. with <sup>137</sup> Cs	0	0	0	0	0	0	0	2	0	2
1D) X-ray + LDR B. T. with <sup>198</sup> Au	0	0	0	0	0	1	0	1	0	2
3D) Electron beam + LDR B. T. with <sup>198</sup> Au	0	2	0	0	0	0	0	0	0	2
8)+ Others	0	2	0	2	2	0	1	5	0	12
9) Unknown	0	5	0	7	4	0	3	13	0	32
Total	17	154	21	333	226	63	189	897	1	1901

NOS: not otherwise specified.

HDR: high dose rate.

B. T. : brachytherapy.

LDR: low dose rate.

## Carcinoma of the Oral Cavity ----- 1901 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	10	81	12	157	98	39	104	582	1	1084
1) Intravenous	2	32	6	81	51	13	42	157	0	384
2) Intraarterial	0	19	2	27	39	5	11	50	0	153
3) Oral	4	17	1	53	29	6	28	79	0	217
8) Others	1	3	0	6	5	0	3	18	0	36
9) Unknown	0	2	0	9	4	0	1	11	0	27
Total	17	154	21	333	226	63	189	897	1	1901

NOS: not otherwise specified.

Larynx (2003)

504 Cases

## Carcinoma of the Larynx ----- 504 Cases

## Subsite

Subsite	Number of patients
Glottis	355 ( 70.4%)
Supraglottis	132 ( 26.2%)
Subglottis	11 ( 2.2%)
Larynx, NOS	6 ( 1.2%)
Total	504 (100.0%)

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	0	0	0
30 - 39	2	0	0	2
40 - 49	14	1	0	15
50 - 59	108	5	0	113
60 - 69	177	17	0	194
70 - 79	133	11	0	144
80 - 89	34	2	0	36
90 -	0	0	0	0
Unknown	0	0	0	0
Total	468	36	0	504

## Carcinoma of the Larynx ----- 504 Cases

## Glottic Carcinoma

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	0	0	0
30 - 39	1	0	0	1
40 - 49	12	1	0	13
50 - 59	80	4	0	84
60 - 69	126	10	0	136
70 - 79	87	8	0	95
80 - 89	25	1	0	26
90 -	0	0	0	0
Unknown	0	0	0	0
Total	331	24	0	355

## Supraglottic Carcinoma

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	0	0	0
30 - 39	1	0	0	1
40 - 49	2	0	0	2
50 - 59	20	1	0	21
60 - 69	48	6	0	54
70 - 79	42	3	0	45
80 - 89	8	1	0	9
90 -	0	0	0	0
Unknown	0	0	0	0
Total	121	11	0	132

## Carcinoma of the Larynx ----- 504 Cases

## Subglottic Carcinoma

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	0	0	0
30 - 39	0	0	0	0
40 - 49	0	0	0	0
50 - 59	6	0	0	6
60 - 69	1	0	0	1
70 - 79	3	0	0	3
80 - 89	1	0	0	1
90 -	0	0	0	0
Unknown	0	0	0	0
Total	11	0	0	11

## Carcinoma of the Larynx, NOS

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	0	0	0
30 - 39	0	0	0	0
40 - 49	0	0	0	0
50 - 59	2	0	0	2
60 - 69	2	1	0	3
70 - 79	1	0	0	1
80 - 89	0	0	0	0
90 -	0	0	0	0
Unknown	0	0	0	0
Total	5	1	0	6

NOS: not otherwise specified.



## Carcinoma of the Larynx ----- 504 Cases

## Histological Distribution by Subsite

Histologic type	Glottis (C32.0)	Supraglottis (C32.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Neoplasm, malig.	1	0	0	1	2
Ca., undiff., NOS	0	1	0	0	1
Spindle cell ca., NOS	0	1	0	0	1
S.C.C. in situ, NOS	5	0	0	0	5
S.C.C., NOS	274	111	11	5	401
S.C.C., kerat., NOS	68	13	0	0	81
S.C.C., large cell, nonkerat.	6	4	0	0	10
S.C.C., small cell, nonkerat.	1	1	0	0	2
Basaloid S.C.C.	0	1	0	0	1
Total	355	132	11	6	504

NOS: not otherwise specified.

malig.: malignant.

Ca., ca.: carcinoma.

undiff.: undifferentiated.

S.C.C.: squamous cell carcinoma.

kerat.: keratinizing.

nonkerat.: nonkeratinizing.

## 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	3	0	0	0	0	0	0	0	0	3
T1	199	1	0	0	1	2	0	1	0	204
T2	144	10	0	7 *	11	7	2	0	0	181
T3	49 *	13	0	0	5 *	9	1	0	0	77
T4	17	3	0	1	4	9	1 *	2	0	37
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	414	27	0	8	21	27	4	3	0	504

M1: 5 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Larynx ----- 504 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	3	0	0	0	0	0	0	0	0	3
T1	12	0	0	0	0	0	0	0	0	12
T1a	135	0	0	0	0	0	0	1	0	136
T1b	39	0	0	0	0	1	0	0	0	40
T2	92	2	0	2	3	1	1	0	0	101
T3	34 *	5	0	0	2	2	1	0	0	44
T4	11	1	0	0	2	3	0	1	0	18
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	327	8	0	2	7	7	2	2	0	355

M1: 2 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## 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	0	0	0	0	0	0	0	0	0	0
T1	12	1	0	0	0	1	0	0	0	14
T2	44	8	0	5 *	8	6	1	0	0	72
T3	14	8	0	0	3 *	7	0	0	0	32
T4	2	2	0	1	2	5	1 *	0	0	13
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	73	19	0	6	13	19	2	0	0	132

M1: 3 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Larynx ----- 504 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	0	0	0	0	0	0	0	0	0	0
T1	1	0	0	0	0	0	0	0	0	1
T2	7	0	0	0	0	0	0	0	0	7
T3	0	0	0	0	0	0	0	0	0	0
T4	2	0	0	0	0	1	0	0	0	3
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	10	0	0	0	0	1	0	0	0	11

M1: 0 case.

T-: T classification not defined.

N-: N classification not defined.

## 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
Tis	0	0	0	0	0	0	0	0	0	0
T1	0	0	0	0	1	0	0	0	0	1
T2	1	0	0	0	0	0	0	0	0	1
T3	1	0	0	0	0	0	0	0	0	1
T4	2	0	0	0	0	0	0	1	0	3
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	4	0	0	0	1	0	0	1	0	6

M1: 0 case.

NOS: not otherwise specified.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Larynx ----- 504 Cases

## Treatment Method for the Primary Lesion by Subsite

Treatment method	Glottis (C32. 0)	Supraglottis (C32. 1)	Subglottis (C32. 2)	Larynx, NOS (C32. 9)	Total
Surgery					
0) Without	264	79	5	3	351
1) With	91	53	6	3	153
9) Unknown	0	0	0	0	0
Radiotherapy					
0) Without	61	33	5	2	101
1) With	293	97	6	4	400
9) Unknown	1	2	0	0	3
Chemotherapy					
0) Without	272	80	5	1	358
1) With	81	50	6	5	142
9) Unknown	2	2	0	0	4
Total	355	132	11	6	504

NOS: not otherwise specified.

## Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Glottis (C32. 0)	Supraglottis (C32. 1)	Subglottis (C32. 2)	Larynx, NOS (C32. 9)	Total
No treatment	5	4	1	0	10
B) Rad. alone	196	38	2	0	236
F) (Rad. +Chem. )	54	26	2	2	84
A) Surg. alone	50	26	2	1	79
AB) Surg. ->Rad.	14	10	0	0	24
CA) Chem. ->Surg.	4	3	2	1	10
AF) Surg. -> (Rad. +Chem. )	4	5	0	0	9
BA) Rad. ->Surg.	7	2	0	0	9
CB) Chem. ->Rad.	2	5	0	0	7
FA) (Rad. +Chem. ) ->Surg.	2	3	0	1	6
BC) Rad. ->Chem.	3	1	0	0	4
ABC) Surg. ->Rad. ->Chem.	1	0	2	0	3
Others	12	7	0	1	20
Unknown	1	2	0	0	3
Total	355	132	11	6	504

NOS: not otherwise specified.

Rad. : radiotherapy.

Chem. : chemotherapy.

Surg. : surgery.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Larynx ----- 504 Cases

## Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
0) Without	1	2	178	137	24	9	0	0	351
1) With	1	1	26	44	53	28	0	0	153
9) Unknown	0	0	0	0	0	0	0	0	0
Radiotherapy									
0) Without	2	1	13	23	43	19	0	0	101
1) With	0	2	190	156	34	18	0	0	400
9) Unknown	0	0	1	2	0	0	0	0	3
Chemotherapy									
0) Without	1	1	184	99	54	19	0	0	358
1) With	1	2	19	79	23	18	0	0	142
9) Unknown	0	0	1	3	0	0	0	0	4
Total	2	3	204	181	77	37	0	0	504

T-: T classification not defined.

## 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	2	4	2	2	0	0	10
B) Rad. alone	0	0	156	70	10	0	0	0	236
F) (Rad. +Chem.)	0	2	16	57	6	3	0	0	84
A) Surg. alone	1	1	11	17	37	12	0	0	79
AB) Surg. ->Rad.	0	0	10	7	4	3	0	0	24
CA) Chem. ->Surg.	0	0	0	2	3	5	0	0	10
AF) Surg. -> (Rad. +Chem.)	0	0	0	7	0	2	0	0	9
BA) Rad. ->Surg.	0	0	4	2	1	2	0	0	9
CB) Chem. ->Rad.	0	0	1	2	2	2	0	0	7
FA) (Rad. +Chem.) ->Surg.	0	0	0	1	4	1	0	0	6
BC) Rad. ->Chem.	0	0	1	1	2	0	0	0	4
ABC) Surg. ->Rad. ->Chem.	0	0	0	1	0	2	0	0	3
Others	1	0	2	8	6	3	0	0	20
Unknown	0	0	1	2	0	0	0	0	3
Total	2	3	204	181	77	37	0	0	504

T-: T classification not defined.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Larynx ----- 504 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											
0) Without	1	2	11	115	37	83	11	4	0	0	264
1) With	0	1	1	21	3	18	33	14	0	0	91
9) Unknown	0	0	0	0	0	0	0	0	0	0	0
Radiotherapy											
0) Without	1	1	0	11	2	8	28	10	0	0	61
1) With	0	2	12	124	38	93	16	8	0	0	293
9) Unknown	0	0	0	1	0	0	0	0	0	0	1
Chemotherapy											
0) Without	0	1	10	126	36	55	33	11	0	0	272
1) With	1	2	2	9	4	45	11	7	0	0	81
9) Unknown	0	0	0	1	0	1	0	0	0	0	2
Total	1	3	12	136	40	101	44	18	0	0	355

T-: T classification not defined.

## Glottic Carcinoma

## Sequence of Treatment Methods 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	2	1	0	2	0	0	5
B) Rad. alone	0	0	9	105	31	44	7	0	0	0	196
F) (Rad. +Chem.)	0	2	2	8	3	35	2	2	0	0	54
A) Surg. alone	0	1	0	11	0	7	25	6	0	0	50
AB) Surg. ->Rad.	0	0	1	7	1	3	0	2	0	0	14
BA) Rad. ->Surg.	0	0	0	3	1	1	1	1	0	0	7
AF) Surg. -> (Rad. +Chem.)	0	0	0	0	0	3	0	1	0	0	4
CA) Chem. ->Surg.	0	0	0	0	0	0	2	2	0	0	4
BC) Rad. ->Chem.	0	0	0	0	1	1	1	0	0	0	3
Others	1	0	0	1	1	6	6	2	0	0	17
Unknown	0	0	0	1	0	0	0	0	0	0	1
Total	1	3	12	136	40	101	44	18	0	0	355

T-: T classification not defined.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Larynx ----- 504 Cases

## Supraglottic Carcinoma

## Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
0) Without	0	0	13	49	13	4	0	0	79
1) With	1	0	1	23	19	9	0	0	53
9) Unknown	0	0	0	0	0	0	0	0	0
Radiotherapy									
0) Without	1	0	0	12	14	6	0	0	33
1) With	0	0	14	58	18	7	0	0	97
9) Unknown	0	0	0	2	0	0	0	0	2
Chemotherapy									
0) Without	1	0	12	40	20	7	0	0	80
1) With	0	0	2	30	12	6	0	0	50
9) Unknown	0	0	0	2	0	0	0	0	2
Total	1	0	14	72	32	13	0	0	132

T-: T classification not defined.

## Supraglottic 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	2	0	0	0	4
B) Rad. alone	0	0	11	24	3	0	0	0	38
A) Surg. alone	1	0	0	9	11	5	0	0	26
F) (Rad. +Chem.)	0	0	1	20	4	1	0	0	26
AB) Surg. ->Rad.	0	0	1	4	4	1	0	0	10
AF) Surg. -> (Rad. +Chem.)	0		0	4	0	1			5
CB) Chem. ->Rad.	0	0	0	1	2	2	0	0	5
CA) Chem. ->Surg.	0		0	1	1	1			3
FA) (Rad. +Chem.) ->Surg.	0	0	0	1	2	0	0	0	3
BA) Rad. ->Surg.	0	0	0	1	0	1	0	0	2
CF) Chem. -> (Rad. +Chem.)	0	0	1	0	1	0	0	0	2
Others	0	0	0	3	2	1	0	0	6
Unknown	0	0	0	2	0	0	0	0	2
Total	1	0	14	72	32	13	0	0	132

T-: T classification not defined.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Larynx ----- 504 Cases

## Subglottic Carcinoma

## Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
0) Without	0	0	1	4	0	0	0	0	5
1) With	0	0	0	3	0	3	0	0	6
9) Unknown	0	0	0	0	0	0	0	0	0
Radiotherapy									
0) Without	0	0	0	3	0	2	0	0	5
1) With	0	0	1	4	0	1	0	0	6
9) Unknown	0	0	0	0	0	0	0	0	0
Chemotherapy									
0) Without	0	0	0	4	0	1	0	0	5
1) With	0	0	1	3	0	2	0	0	6
9) Unknown	0	0	0	0	0	0	0	0	0
Total	0	0	1	7	0	3	0	0	11

T-: T classification not defined.

## Subglottic Carcinoma

## Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	1	0	0	0	0	1
A) Surg. alone	0	0	0	1	0	1	0	0	2
ABC) Surg. ->Rad. ->Chem.	0	0	0	1	0	1	0	0	2
B) Rad. alone	0	0	0	2	0	0	0	0	2
CA) Chem. ->Surg.	0	0	0	1	0	1	0	0	2
F) (Rad. +Chem.)	0	0	1	1	0	0	0	0	2
Others	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0
Total	0	0	1	7	0	3	0	0	11

T-: T classification not defined.

Surg. : surgery.

Rad. : radiotherapy.

Chem. : chemotherapy.

Treatment methods in parentheses were given concurrently.



## Carcinoma of the Larynx ----- 504 Cases

## Carcinoma of the Larynx, NOS

## Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
0) Without	0	0	1	1	0	1	0	0	3
1) With	0	0	0	0	1	2	0	0	3
9) Unknown	0	0	0	0	0	0	0	0	0
Radiotherapy									
0) Without	0	0	0	0	1	1	0	0	2
1) With	0	0	1	1	0	2	0	0	4
9) Unknown	0	0	0	0	0	0	0	0	0
Chemotherapy									
0) Without	0	0	0	0	1	0	0	0	1
1) With	0	0	1	1	0	3	0	0	5
9) Unknown	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	1	3	0	0	6

NOS: not otherwise specified.

T-: T classification not defined.

## 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	0	0	0	0	0
F) (Rad. +Chem.)	0	0	1	1	0	0	0	0	2
A) Surg. alone	0	0	0	0	1	0	0	0	1
CA) Chem. ->Surg.	0	0	0	0	0	1	0	0	1
FA) (Rad. +Chem.) ->Surg.	0	0	0	0	0	1	0	0	1
FCC) (Rad. +Chem.) ->Chem. ->Chem.	0	0	0	0	0	1	0	0	1
Others	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	1	3	0	0	6

NOS: not otherwise specified.

T-: T classification not defined.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Larynx ----- 504 Cases

## Surgical Method for the Primary Lesion by Subsite

Surgical method		Glottis (C32.0)	Supraglottis (C32.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
H0)	No surgery	264	79	5	3	351
C4)	Total laryngectomy	39	27	4	3	73
C9)	Laryngectomy, other type	30	6	0	0	36
C2)	Partial laryngectomy	5	4	1	0	10
C4G2)	Total laryngectomy with thyroid lobectomy	6	4	0	0	10
C3)	Subtotal laryngectomy	3	1	0	0	4
C4G4)	Total laryngectomy with total thyroidectomy	3	0	1	0	4
C4D1)	Total laryngectomy with partial hypopharyngectomy	0	2	0	0	2
C4D1G2)	Total laryngectomy with partial hypopharyngectomy and thyroid lobectomy	1	1	0	0	2
H9)+	Others	1	6	0	0	7
	Unknown	3	2	0	0	5
Total		355	132	11	6	504

NOS: not otherwise specified.

## Carcinoma of the Larynx ----- 504 Cases

## Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
H0)	No surgery	1	2	178	137	24	9	0	0	351
C4)	Total laryngectomy	1	0	1	14	38	19	0	0	73
C9)	Laryngectomy, other type	0	1	21	14	0	0	0	0	36
C2)	Partial laryngectomy	0	0	3	6	1	0	0	0	10
C4G2)	Total laryngectomy with thyroid lobectomy	0	0	0	5	5	0	0	0	10
C3)	Subtotal laryngectomy	0	0	1	1	2	0	0	0	4
C4G4)	Total laryngectomy with total thyroidectomy	0	0	0	1	1	2	0	0	4
C4D1)	Total laryngectomy with partial hypopharyngectomy	0	0	0	0	0	2	0	0	2
C4D1G2)	Total laryngectomy with partial hypopharyngectomy and thyroid lobectomy	0	0	0	1	0	1	0	0	2
H9)+	Others	0	0	0	1	3	3	0	0	7
	Unknown	0	0	0	1	3	1	0	0	5
Total		2	3	204	181	77	37	0	0	504

T-: T classification not defined.

## Carcinoma of the Larynx ----- 504 Cases

## Glottic Carcinoma

## Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T1a	T1b	T2	T3	T4	TX	T-	Total
H0)	No surgery	1	2	11	115	37	83	11	4	0	0	264
C4)	Total laryngectomy	0	0	0	1	0	2	24	12	0	0	39
C9)	Laryngectomy, other type	0	1	1	17	2	9	0	0	0	0	30
C4G2)	Total laryngectomy with thyroid lobectomy	0	0	0	0	0	1	5	0	0	0	6
C2)	Partial laryngectomy	0	0	0	3	0	2	0	0	0	0	5
C3)	Subtotal laryngectomy	0	0	0	0	1	1	1	0	0	0	3
C4G4)	Total laryngectomy with total thyroidectomy	0	0	0	0	0	1	1	1	0	0	3
H9)+	Others	0	0	0	0	0	1	0	1	0	0	2
	Unknown	0	0	0	0	0	1	2	0	0	0	3
Total		1	3	12	136	40	101	44	18	0	0	355

T-: T classification not defined.

## Carcinoma of the Larynx ----- 504 Cases

## Supraglottic Carcinoma

## Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
H0)	No surgery	0	0	13	49	13	4	0	0	79
C4)	Total laryngectomy	1	0	0	10	13	3	0	0	27
C9)	Laryngectomy, other type	0	0	1	5	0	0	0	0	6
C2)	Partial laryngectomy	0	0	0	3	1	0	0	0	4
C4G2)	Total laryngectomy with thyroid lobectomy	0	0	0	4	0	0	0	0	4
C4D1)	Total laryngectomy with partial hypopharyngectomy	0	0	0	0	0	2	0	0	2
H9)+	Others	0	0	0	1	4	3	0	0	8
	Unknown	0	0	0	0	1	1	0	0	2
Total		1	0	14	72	32	13	0	0	132

T-: T classification not defined.

## Carcinoma of the Larynx ----- 504 Cases

## Subglottic Carcinoma

## Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
H0)	No surgery	0	0	1	4	0	0	0	0	5
C4)	Total laryngectomy	0	0	0	2	0	2	0	0	4
C2)	Partial laryngectomy	0	0	0	1	0	0	0	0	1
C4G4)	Total laryngectomy with total thyroidectomy	0	0	0	0	0	1	0	0	1
H9)+	Others	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0
Total		0	0	1	7	0	3	0	0	11

T-: T classification not defined.

## 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
H0)	No surgery	0	0	1	1	0	1	0	0	3
C4)	Total laryngectomy	0	0	0	0	1	2	0	0	3
H9)+	Others	0	0	0	0	0	0	0	0	0
	Unknown	0	0	0	0	0	0	0	0	0
Total		0	0	1	1	1	3	0	0	6

NOS: not otherwise specified.

T-: T classification not defined.

## Carcinoma of the Larynx ----- 504 Cases

## Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Glottis (C32. 0)	Supraglottis (C32. 1)	Subglottis (C32. 2)	Larynx, NOS (C32. 9)	Total
Surgery					
0) Without	311	88	7	4	410
1) With	43	42	4	2	91
9) Unknown	1	2	0	0	3
Radiotherapy					
0) Without	305	74	9	3	391
1) With	36	55	2	3	96
9) Unknown	14	3	0	0	17
Chemotherapy					
0) Without	335	96	8	2	441
1) With	17	34	3	4	58
9) Unknown	3	2	0	0	5
Total	355	132	11	6	504

NOS: not otherwise specified.

## Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Glottis (C32. 0)	Supraglottis (C32. 1)	Subglottis (C32. 2)	Larynx, NOS (C32. 9)	Total
0) No N.D.	312	88	7	4	411
1) Radical N.D.	6	10	2	1	19
2) Conservative N.D.	28	28	2	1	59
3) Upper N.D.	0	0	0	0	0
4) Partial N.D.	5	1	0	0	6
5) Enucleation	1	0	0	0	1
8) Others	0	0	0	0	0
9) Unknown	3	5	0	0	8
Total	355	132	11	6	504

NOS: not otherwise specified.

N.D.: neck dissection.

## Carcinoma of the Larynx ----- 504 Cases

## Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Glottis (C32. 0)	Supraglottis (C32. 1)	Subglottis (C32. 2)	Larynx, NOS (C32. 9)	Total
0) No N. D.	331	104	8	6	449
1) Radical N. D.	0	1	1	0	2
2) Conservative N. D.	13	21	1	0	35
3) Upper N. D.	0	1	0	0	1
4) Partial N. D.	6	1	0	0	7
5) Enucleation	2	0	0	0	2
8) Others	0	0	0	0	0
9) Unknown	3	4	1	0	8
Total	355	132	11	6	504

NOS: not otherwise specified.

N. D. : neck dissection.

## Reconstructive Surgery by Subsite

Reconstructive surgery	Glottis (C32. 0)	Supraglottis (C32. 1)	Subglottis (C32. 2)	Larynx, NOS (C32. 9)	Total
0) No reconstruction	350	124	9	6	489
B) Free jejunal flap	0	4	0	0	4
2) Local skin flap	1	0	1	0	2
4) DP flap	2	0	0	0	2
5) PM MC flap	0	2	0	0	2
54) PM MC flap + DP flap	1	1	0	0	2
C) Free FA flap	0	1	1	0	2
8)+ Others	1	0	0	0	1
9) Unknown	0	0	0	0	0
Total	355	132	11	6	504

NOS: not otherwise specified.

DP: deltopectoral.

PM: pectoralis major.

MC: musculocutaneous.

FA: forearm.



## Carcinoma of the Larynx ----- 504 Cases

## Radiotherapy by Subsite

Type of radiotherapy	Glottis (C32.0)	Supraglottis (C32.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No radiotherapy	60	32	5	2	99
1) X-ray	278	93	5	3	379
2) <sup>60</sup> Co $\gamma$ -ray	7	4	0	0	11
3) Electron beam	1	1	0	1	3
13) X-ray + electron beam	0	0	1	0	1
8)+ Others	0	0	0	0	0
9) Unknown	9	2	0	0	11
Total	355	132	11	6	504

NOS: not otherwise specified.

## Chemotherapy by Subsite

Route of Administration	Glottis (C32.0)	Supraglottis (C32.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No chemotherapy	272	80	5	1	358
1) Intravenous	70	43	5	4	122
2) Intraarterial	2	1	0	0	3
3) Oral	5	4	1	1	11
8) Others	0	0	0	0	0
9) Unknown	6	4	0	0	10
Total	355	132	11	6	504

NOS: not otherwise specified.

Hypopharynx (2003)

308 Cases

## Carcinoma of the Hypopharynx ----- 308 Cases

## Subsite

Subsite	Number of patients
Postcricoid	40 ( 13.0%)
Pyriiform sinus	220 ( 71.4%)
Posterior wall	41 ( 13.3%)
Hypopharynx, NOS	7 ( 2.3%)
Total	308 (100.0%)

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	0	0	0	0
30 - 39	2	1	0	3
40 - 49	8	1	0	9
50 - 59	76	10	0	86
60 - 69	112	3	0	115
70 - 79	80	6	0	86
80 - 89	9	0	0	9
90 -	0	0	0	0
Unknown	0	0	0	0
Total	287	21	0	308

## Carcinoma of the Hypopharynx ----- 308 Cases

## Histological Distribution by Subsite

Histologic type	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Neoplasm, malig.	1	1	0	0	2
Carcinoma, NOS	2	0	0	0	2
Ca., undiff., NOS	0	2	1	0	3
S.C.C., NOS	36	196	36	7	275
S.C.C., kerat., NOS	1	10	4	0	15
S.C.C., large cell, nonkerat.	0	7	0	0	7
Basaloid S.C.C.	0	1	0	0	1
Adenoid cystic ca.	0	1	0	0	1
Blue nevus, malig.	0	2	0	0	2
Total	40	220	41	7	308

NOS: not otherwise specified.

Ca., ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

nonkerat.: nonkeratinizing.

malig.: malignant.

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	0	0	0	0	0	0	0	0	0	0
T1	14	7 *	2 **	3	5	1	1	0	0	33
T2	47	14	0	3	17 **	20 *	6	1	0	108
T3	14	11	0	2 *	26 ***	21 *	8 *	0	0	82
T4	13 *	12 *	0	2	24 **	24 **	6 **	0	0	81
TX	0	0	0	0	2 *	0	2	0	0	4
T-	0	0	0	0	0	0	0	0	0	0
Total	88	44	2	10	74	66	23	1	0	308

M1: 21 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Hypopharynx ----- 308 Cases

## Treatment Method for the Primary Lesion by Subsite

Treatment method	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
0) Without	18	99	19	6	142
1) With	22	121	22	1	166
9) Unknown	0	0	0	0	0
Radiotherapy					
0) Without	9	65	13	1	88
1) With	31	154	28	6	219
9) Unknown	0	1	0	0	1
Chemotherapy					
0) Without	18	95	19	2	134
1) With	22	124	22	5	173
9) Unknown	0	1	0	0	1
Total	40	220	41	7	308

NOS: not otherwise specified.

## Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
0) Without	18	92	20	6	136
1) With	22	127	21	1	171
9) Unknown	0	1	0	0	1
Radiotherapy					
0) Without	11	71	14	3	99
1) With	27	143	27	4	201
9) Unknown	2	6	0	0	8
Chemotherapy					
0) Without	20	101	23	4	148
1) With	20	118	18	3	159
9) Unknown	0	1	0	0	1
Total	40	220	41	7	308

NOS: not otherwise specified.

## Carcinoma of the Hypopharynx ----- 308 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	0	5	0	1	6
F) (Rad. +Chem.)	8	40	7	3	58
A) Surg. alone	6	30	10	0	46
AB) Surg. ->Rad.	6	27	4	0	37
B) Rad. alone	5	24	5	1	35
CA) Chem. ->Surg.	1	20	2	0	23
CB) Chem. ->Rad.	1	13	4	1	19
FA) (Rad. +Chem.) ->Surg.	1	11	3	1	16
CAB) Chem. ->Surg. ->Rad.	1	7	1	0	9
ABC) Surg. ->Rad. ->Chem.	3	4	0	0	7
C) Chem. alone	1	6	0	0	7
AF) Surg. ->(Rad. +Chem.)	2	4	0	0	6
BA) Rad. ->Surg.	0	6	0	0	6
FC) (Rad. +Chem.) ->Chem.	0	3	2	0	5
AC) Surg. ->Chem.	0	4	0	0	4
CF) Chem. ->(Rad. +Chem.)	1	3	0	0	4
BAB) Rad. ->Surg. ->Rad.	0	3	0	0	3
BC) Rad. ->Chem.	1	1	1	0	3
E) (Surg. +Chem.)	1	0	1	0	2
Others	1	7	1	0	9
Unknown	1	2	0	0	3
Total	40	220	41	7	308

NOS: not otherwise specified.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Hypopharynx ----- 308 Cases

## Surgical Method for the Primary Lesion by Subsite

Surgical method		Postericoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
H0)	No surgery	18	99	19	6	142
D2C4H6)	Pharyngolaryngoesophagectomy	4	26	3	0	33
D1)	Partial hypopharyngectomy	2	15	9	0	26
D2)	Total hypopharyngectomy	2	13	2	0	17
D2C4)	Total pharyngolaryngectomy	2	14	1	0	17
D2C4G2)	Total pharyngolaryngectomy with thyroid lobectomy	1	12	2	0	15
D9)	Hypopharyngectomy, other type	3	5	0	0	8
D2C4H7)	Total pharyngolaryngectomy with blunt esophagectomy	1	3	0	1	5
D2C4G4)	Total pharyngolaryngectomy with total thyroidectomy	0	3	1	0	4
C4D1G2)	Total laryngectomy with partial hypopharyngectomy and thyroid lobectomy	0	3	0	0	3
C4D2)	Total pharyngolaryngectomy	1	2	0	0	3
D1C4)	Partial hypopharyngectomy with total laryngectomy	0	3	0	0	3
H9)+	Others	6	18	4	0	28
	Unknown	0	4	0	0	4
Total		40	220	41	7	308

NOS: not otherwise specified.

## Carcinoma of the Hypopharynx ----- 308 Cases

## Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Postericoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	18	92	20	6	136
1) Radical N.D.	11	58	5	1	75
2) Conservative N.D.	9	64	14	0	87
3) Upper N.D.	0	0	0	0	0
4) Partial N.D.	0	4	2	0	6
5) Enucleation	2	0	0	0	2
8) Others	0	0	0	0	0
9) Unknown	0	2	0	0	2
Total	40	220	41	7	308

NOS: not otherwise specified.

N.D. : neck dissection.

## Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Postericoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	23	125	25	6	179
1) Radical N.D.	0	6	1	0	7
2) Conservative N.D.	16	65	13	1	95
3) Upper N.D.	0	0	0	0	0
4) Partial N.D.	0	20	2	0	22
5) Enucleation	0	1	0	0	1
8) Others	0	0	0	0	0
9) Unknown	1	3	0	0	4
Total	40	220	41	7	308

NOS: not otherwise specified.

N.D. : neck dissection.



## Carcinoma of the Hypopharynx ----- 308 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	23	119	20	6	168
B) Free jejunal flap	14	68	15	0	97
C) Free FA flap	1	13	3	0	17
E) Free anterolateral thigh flap	1	4	1	0	6
7) Gastric pullup	0	3	0	1	4
5) PM MC flap	0	2	0	0	2
A) Pedicled colon segment	0	2	0	0	2
C1) Free FA flap + skin graft	0	1	1	0	2
D) Free RA MC flap	0	2	0	0	2
2) Local skin flap	0	0	1	0	1
4) DP flap	0	1	0	0	1
41) DP flap + skin graft	0	1	0	0	1
C4) Free FA flap + DP flap	0	1	0	0	1
8) Others	1	0	0	0	1
9) Unknown	0	3	0	0	3
Total	40	220	41	7	308

NOS: not otherwise specified.

MC: musculocutaneous.

FA: forearm.

RA: rectus abdominis.

PM: pectoralis major.

DP: deltopectoral.

## Carcinoma of the Hypopharynx ----- 308 Cases

## Radiotherapy by Subsite

Type of radiotherapy	Postericoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No radiotherapy	9	56	12	1	78
1) X-ray	27	152	27	5	211
13) X-ray + electron beam	1	3	1	0	5
12) X-ray + <sup>60</sup> Co $\gamma$ -ray	1	1	1	0	3
3) Electron beam	1	1	0	1	3
2) <sup>60</sup> Co $\gamma$ -ray	0	2	0	0	2
14) X-ray + Proton beam	1	0	0	0	1
8) Others	0	1	0	0	1
9) Unknown	0	4	0	0	4
Total	40	220	41	7	308

NOS: not otherwise specified.

## Chemotherapy by Subsite

Route of Administration	Postericoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No chemotherapy	18	94	19	2	133
1) Intravenous	16	112	20	5	153
2) Intraarterial	0	3	1	0	4
3) Oral	5	8	1	0	14
8) Others	0	0	0	0	0
9) Unknown	1	3	0	0	4
Total	40	220	41	7	308

NOS: not otherwise specified.

Oropharynx (2003)

269 Cases

## Carcinoma of the Oropharynx ----- 269 Cases

## Subsite

Subsite	Number of patients
Soft palate	45 ( 16.7%)
Lateral wall	159 ( 59.1%)
Posterior wall	6 ( 2.2%)
Base of tongue	49 ( 18.2%)
Oropharynx, NOS	10 ( 3.7%)
Total	269 (100.0%)

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	1	0	1
20 - 29	0	2	0	2
30 - 39	1	1	0	2
40 - 49	15	3	0	18
50 - 59	66	21	0	87
60 - 69	73	7	0	80
70 - 79	52	14	0	66
80 - 89	8	5	0	13
90 -	0	0	0	0
Unknown	0	0	0	0
Total	215	54	0	269

## Carcinoma of the Oropharynx ----- 269 Cases

## Histological Distribution by Subsite

Histologic type	Soft palate	Lateral wall	Posterior wall	Base of tongue	Orophar- ynx, NOS	Total
Neoplasm, malig.	0	4	0	0	0	4
Carcinoma, NOS	0	0	0	1	0	1
Ca., undiff., NOS	1	4	0	0	0	5
Verrucous ca., NOS	1	0	0	0	0	1
S.C.C., NOS	28	128	4	34	10	204
S.C.C., kerat., NOS	9	18	2	6	0	35
S.C.C., large cell, nonkerat.	0	1	0	1	0	2
S.C.C., small cell, nonkerat.	0	2	0	1	0	3
Adenocarcinoma, NOS	0	0	0	1	0	1
Adenoid cystic ca.	4	1	0	4	0	9
Mucoepidermoid ca.	2	1	0	1	0	4
Total	45	159	6	49	10	269

NOS: not otherwise specified.

malig.: malignant.

Ca., ca.: carcinoma.

undiff.: undifferentiated.

S.C.C.: squamous cell carcinoma.

kerat.: keratinizing.

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	0	0	0	0	0	0	0	0	0	0
T1	21	5	0	1	9	2	2	0	0	40
T2	45	22 *	1	12 *	18	11	5	2	0	116
T3	22	15	0	4	13 *	12	0	0	0	66
T4	11 *	10 ***	0	1	12	8	5	0	0	47
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	99	52	1	18	52	33	12	2	0	269

M1: 7 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Oropharynx ----- 269 Cases

## Treatment Method for the Primary Lesion by Subsite

Treatment method	Soft palate	Lateral wall	Posterior wall	Base of tongue	Oropharynx, NOS	Total
Surgery						
0) Without	23	103	5	27	7	165
1) With	22	56	1	22	3	104
9) Unknown	0	0	0	0	0	0
Radiotherapy						
0) Without	17	35	0	14	2	68
1) With	26	124	6	35	8	199
9) Unknown	2	0	0	0	0	2
Chemotherapy						
0) Without	28	73	3	20	1	125
1) With	17	86	2	29	9	143
9) Unknown	0	0	1	0	0	1
Total	45	159	6	49	10	269

NOS: not otherwise specified.

## Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Soft palate	Lateral wall	Posterior wall	Base of tongue	Oropharynx, NOS	Total
Surgery						
0) Without	35	102	6	23	8	174
1) With	10	57	0	26	2	95
9) Unknown	0	0	0	0	0	0
Radiotherapy						
0) Without	29	51	4	20	4	108
1) With	16	103	2	29	6	156
9) Unknown	0	5	0	0	0	5
Chemotherapy						
0) Without	35	87	5	24	3	154
1) With	10	71	1	25	7	114
9) Unknown	0	1	0	0	0	1
Total	45	159	6	49	10	269

NOS: not otherwise specified.

## Carcinoma of the Oropharynx ----- 269 Cases

## Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Soft palate	Lateral wall	Posterior wall	Base of tongue	Oropharynx, NOS	Total
No treatment	4	6	0	3	0	13
F) (Rad. +Chem. )	8	37	2	14	3	64
B) Rad. alone	9	36	3	2	1	51
A) Surg. alone	12	20	0	7	0	39
CB) Chem. ->Rad.	1	14	0	2	1	18
AB) Surg. ->Rad.	2	8	1	6	0	17
FA) (Rad. +Chem. )->Surg.	3	7	0	0	0	10
C) Chem. alone	0	5	0	2	0	7
BA) Rad. ->Surg.	1	3	0	2	0	6
CA) Chem. ->Surg.	0	3	0	2	1	6
CAB) Chem. ->Surg. ->Rad.	0	4	0	0	1	5
AF) Surg. ->(Rad. +Chem. )	2	2	0	0	0	4
CBA) Chem. ->Rad. ->Surg.	1	2	0	1	0	4
ABC) Surg. ->Rad. ->Chem.	0	2	0	1	0	3
BC) Rad. ->Chem.	0	1	0	1	1	3
CF) Chem. ->(Rad. +Chem. )	0	1	0	1	1	3
Others	1	8	0	5	1	15
Unknown	1	0	0	0	0	1
Total	45	159	6	49	10	269

NOS: not otherwise specified.

Rad. : radiotherapy.

Chem. : chemotherapy.

Surg. : surgery.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Oropharynx ----- 269 Cases

## Surgical Method for the Primary Lesion by Subsite

Surgical method		Soft palate	Lateral wall	Posterior wall	Base of tongue	Oropharynx, NOS	Total
H0)	No surgery	23	103	5	27	7	165
B3)	Unilateral resection of the lateral wall of the oropharynx	0	18	0	0	0	18
B9)	Resection of the oropharynx, other type	1	11	1	0	2	15
B6)	Partial resection of the soft palate	9	3	0	0	0	12
B5)	Uvulectomy	5	0	0	0	0	5
B3F2)	Unilateral resection of the lateral wall of the oropharynx with marginal mandibulectomy	1	3	0	0	0	4
A4C4)	Total glossectomy with total laryngectomy	0	0	0	3	0	3
B1)	Partial resection of the base of tongue	0	0	0	2	1	3
A3)	Subtotal glossectomy	0	0	0	2	0	2
B3B1)	Unilateral resection of the lateral wall of the oropharynx with partial resection of the base of tongue	0	2	0	0	0	2
H9)+	Others	5	16	0	13	0	34
	Unknown	1	3	0	2	0	6
Total		45	159	6	49	10	269

NOS: not otherwise specified.



## Carcinoma of the Oropharynx ----- 269 Cases

## Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Soft palate	Lateral wall	Posterior wall	Base of tongue	Oropharynx, NOS	Total
0) No N.D.	35	102	6	23	8	174
1) Radical N.D.	6	30	0	12	0	48
2) Conservative N.D.	4	25	0	11	0	40
3) Upper N.D.	0	1	0	2	0	3
4) Partial N.D.	0	0	0	1	0	1
5) Enucleation	0	1	0	0	0	1
8) Others	0	0	0	0	0	0
9) Unknown	0	0	0	0	2	2
Total	45	159	6	49	10	269

NOS: not otherwise specified.

N.D.: neck dissection.

## Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Soft palate	Lateral wall	Posterior wall	Base of tongue	Oropharynx, NOS	Total
0) No N.D.	40	147	6	34	10	237
1) Radical N.D.	0	3	0	3	0	6
2) Conservative N.D.	5	7	0	7	0	19
3) Upper N.D.	0	0	0	3	0	3
4) Partial N.D.	0	1	0	1	0	2
5) Enucleation	0	0	0	0	0	0
8) Others	0	0	0	0	0	0
9) Unknown	0	1	0	1	0	2
Total	45	159	6	49	10	269

NOS: not otherwise specified.

N.D.: neck dissection.

## Carcinoma of the Oropharynx ----- 269 Cases

## Reconstructive Surgery by Subsite

Reconstructive surgery	Soft palate	Lateral wall	Posterior wall	Base of tongue	Oropharynx, NOS	Total
0) No reconstruction	40	127	6	34	8	215
D) Free RA MC flap	1	17	0	10	0	28
C) Free FA flap	1	4	0	2	1	8
5) PM MC flap	1	3	0	1	0	5
E) Free anterolateral thigh flap	0	3	0	1	0	4
1) Skin graft	2	0	0	0	0	2
2) Local skin flap	0	2	0	0	0	2
6) LD MC flap	0	1	0	0	0	1
C1) Free FA flap + skin graft	0	1	0	0	0	1
D1) Free RA MC flap + skin graft	0	0	0	1	0	1
8) Others	0	1	0	0	1	2
9) Unknown	0	0	0	0	0	0
Total	45	159	6	49	10	269

NOS: not otherwise specified.

FA: forearm.

RA: rectus abdominis.

PM: pectoralis major.

MC: musculocutaneous.

LD: latissimus dorsi.

## Carcinoma of the Oropharynx ----- 269 Cases

## Radiotherapy by Subsite

Type of radiotherapy	Soft palate	Lateral wall	Posterior wall	Base of tongue	Oropharynx, NOS	Total
0) No radiotherapy	16	35	0	13	1	65
1) X-ray	21	109	6	34	8	178
2) $^{60}\text{Co}$ $\gamma$ -ray	4	8	0	0	0	12
3) Electron beam	3	1	0	0	0	4
13) X-ray + electron beam	1	1	0	0	0	2
14) X-ray + Proton beam	0	1	0	1	0	2
1D) X-ray + LDR B. T. with $^{198}\text{Au}$	0	2	0	0	0	2
8)+ Others	0	1	0	1	0	2
9) Unknown	0	1	0	0	1	2
Total	45	159	6	49	10	269

NOS: not otherwise specified.

LDR: low dose rate.

B. T. : brachytherapy.

## Chemotherapy by Subsite

Route of Administration	Soft palate	Lateral wall	Posterior wall	Base of tongue	Oropharynx, NOS	Total
0) No chemotherapy	28	72	3	20	1	124
1) Intravenous	13	73	2	26	4	118
2) Intraarterial	3	8	0	2	3	16
3) Oral	0	5	0	1	2	8
8) Others	0	0	0	0	0	0
9) Unknown	1	1	1	0	0	3
Total	45	159	6	49	10	269

NOS: not otherwise specified.

Nasopharynx (2003)

71 Cases

## Carcinoma of the Nasopharynx ----- 71 Cases

## Subsite

Subsite	Number of patients
Postero-superior wall	32 ( 45.1%)
Lateral wall	24 ( 33.8%)
Inferior wall	10 ( 14.1%)
Nasopharynx, NOS	5 ( 7.0%)
Total	71 (100.0%)

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	2	1	0	3
20 - 29	1	1	0	2
30 - 39	5	1	0	6
40 - 49	8	2	0	10
50 - 59	17	0	0	17
60 - 69	13	2	0	15
70 - 79	12	4	0	16
80 - 89	0	2	0	2
90 -	0	0	0	0
Unknown	0	0	0	0
Total	58	13	0	71

## Carcinoma of the Nasopharynx ----- 71 Cases

## Histological Distribution by Subsite

Histologic type	Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Carcinoma, NOS	1	0	0	0	1
Ca., undiff., NOS	8	2	1	2	13
S.C.C., NOS	20	18	7	2	47
S.C.C., large cell, nonkerat.	2	2	1	1	6
S.C.C., small cell, nonkerat.	1	1	0	0	2
S.C.C., spindle cell	0	1	0	0	1
Mucoepidermoid ca.	0	0	1	0	1
Total	32	24	10	5	71

NOS: not otherwise specified.

undiff.: undifferentiated.

nonkerat.: nonkeratinizing.

Ca., ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

## T and N Status

	N0	N1	N2	N3	NX	N-	Total
T0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0
T1	9	4	3	4 **	0	0	20
T2	2	3 *	2	1	0	0	8
T2a	1	4	1	0	0	0	6
T2b	1	1	1	1	0	0	4
T3	5	5	1	1	0	0	12
T4	2	10 *	4 *	5 *	0	0	21
TX	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0
Total	20	27	12	12	0	0	71

M1: 6 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Nasopharynx ----- 71 Cases

## Treatment Method for the Primary Lesion by Subsite

Treatment method	Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
0) Without	32	24	5	5	66
1) With	0	0	5	0	5
9) Unknown	0	0	0	0	0
Radiotherapy					
0) Without	4	2	6	0	12
1) With	28	22	4	5	59
9) Unknown	0	0	0	0	0
Chemotherapy					
0) Without	8	5	3	1	17
1) With	24	19	7	4	54
9) Unknown	0	0	0	0	0
Total	32	24	10	5	71

NOS: not otherwise specified.

## Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
0) Without	29	20	9	5	63
1) With	3	4	1	0	8
9) Unknown	0	0	0	0	0
Radiotherapy					
0) Without	9	6	8	2	25
1) With	23	17	2	3	45
9) Unknown	0	1	0	0	1
Chemotherapy					
0) Without	11	8	6	3	28
1) With	21	16	4	2	43
9) Unknown	0	0	0	0	0
Total	32	24	10	5	71

NOS: not otherwise specified.

## Carcinoma of the Nasopharynx ----- 71 Cases

## Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
No treatment	2	1	2	0	5
F) (Rad. +Chem.)	11	9	2	3	25
B) Rad. alone	6	4	0	1	11
BC) Rad. ->Chem.	5	3	0	1	9
CB) Chem. ->Rad.	3	5	0	0	8
C) Chem. alone	2	1	1	0	4
CF) Chem. ->(Rad. +Chem.)	1	1	0	0	2
Others	2	0	5	0	7
Unknown	0	0	0	0	0
Total	32	24	10	5	71

NOS: not otherwise specified.

Rad. : radiotherapy.

Chem. : chemotherapy.

Treatment methods in parentheses were given concurrently.



## Carcinoma of the Nasopharynx ----- 71 Cases

## Surgical Method for the Primary Lesion by Subsite

Surgical method		Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
H0)	No surgery	32	24	5	5	66
B6)	Partial resection of the soft palate	0	0	3	0	3
B6E1)	Partial resection of the soft palate with partial maxillectomy	0	0	1	0	1
B8)	Total resection of the soft palate	0	0	1	0	1
H9)	Others	0	0	0	0	0
	Unknown	0	0	0	0	0
Total		32	24	10	5	71

NOS: not otherwise specified.

## Reconstructive Surgery by Subsite

Reconstructive surgery		Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0)	No reconstruction	32	24	7	5	68
3)	Mucosal flap	0	0	1	0	1
8)	Others	0	0	2	0	2
9)	Unknown	0	0	0	0	0
Total		32	24	10	5	71

NOS: not otherwise specified.

## Carcinoma of the Nasopharynx ----- 71 Cases

## Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N. D.	29	20	9	5	63
1) Radical N. D.	1	2	1	0	4
2) Conservative N. D.	2	2	0	0	4
3) Upper N. D.	0	0	0	0	0
4) Partial N. D.	0	0	0	0	0
5) Enucleation	0	0	0	0	0
8) Others	0	0	0	0	0
9) Unknown	0	0	0	0	0
Total	32	24	10	5	71

NOS: not otherwise specified.

N. D. : neck dissection.

## Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N. D.	30	22	10	5	67
1) Radical N. D.	0	0	0	0	0
2) Conservative N. D.	1	2	0	0	3
3) Upper N. D.	1	0	0	0	1
4) Partial N. D.	0	0	0	0	0
5) Enucleation	0	0	0	0	0
8) Others	0	0	0	0	0
9) Unknown	0	0	0	0	0
Total	32	24	10	5	71

NOS: not otherwise specified.

N. D. : neck dissection.

## Carcinoma of the Nasopharynx ----- 71 Cases

## Radiotherapy by Subsite

Type of radiotherapy	Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No radiotherapy	4	2	6	0	12
1) X-ray	27	22	1	5	55
13) X-ray + electron beam	0	0	3	0	3
8) Others	0	0	0	0	0
9) Unknown	1	0	0	0	1
Total	32	24	10	5	71

NOS: not otherwise specified.

## Chemotherapy by Subsite

Route of Administration	Postero- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No chemotherapy	8	5	3	1	17
1) Intravenous	23	17	3	3	46
2) Intraarterial	1	0	0	1	2
3) Oral	0	1	4	0	5
8) Others	0	0	0	0	0
9) Unknown	0	1	0	0	1
Total	32	24	10	5	71

NOS: not otherwise specified.

Nasal Cavity and Paranasal Sinuses  
(Excluding the Maxillary Sinus)  
(2003)

49 Cases

## Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 49 Cases

## Subsite

Subsite	Number of patients
Nasal cavity	31 ( 63.3%)
Ethmoid sinus	12 ( 24.5%)
Frontal sinus	1 ( 2.0%)
Sphenoid sinus	5 ( 10.2%)
Paranasal sinus, NOS	0 ( 0.0%)
Total	49 (100.0%)

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	0	0	0
10 - 19	0	0	0	0
20 - 29	1	2	0	3
30 - 39	3	1	0	4
40 - 49	3	1	0	4
50 - 59	5	3	0	8
60 - 69	9	4	0	13
70 - 79	9	5	0	14
80 - 89	2	1	0	3
90 -	0	0	0	0
Unknown	0	0	0	0
Total	32	17	0	49

## Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 49 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
Neoplasm, malig.	2	0	1	2	0	5
Carcinoma, NOS	1	0	0	0	0	1
Ca., undiff., NOS	2	1	0	1	0	4
Small cell ca., NOS	0	1	0	0	0	1
Verrucous ca., NOS	0	0	0	1	0	1
S.C.C., NOS	8	8	0	1	0	17
S.C.C., kerat., NOS	3	0	0	0	0	3
Adenoid cystic ca.	3	0	0	0	0	3
Malig. melanoma, NOS	10	0	0	0	0	10
Fibrosarcoma, NOS	1	0	0	0	0	1
Osteosarcoma, NOS	1	0	0	0	0	1
Esthesioneuroblastoma	0	2	0	0	0	2
Total	31	12	1	5	0	49

NOS: not otherwise specified.

Ca., ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

Malig., malig.: malignant.

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	0	0	0	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0	0	0	0
T2	3	0	0	0	0	0	0	0	0	3
T3	1	0	0	0	0	0	0	0	0	1
T4	4	0	0	0	2	1	1	0	0	8
TX	0	0	0	0	0	0	0	0	0	0
T-	32 *	0	0	0	2 *	0	0	3	0	37
Total	40	0	0	0	4	1	1	3	0	49

M1: 2 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 49 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						
0) Without	14	6	0	3	0	23
1) With	17	6	1	2	0	26
9) Unknown	0	0	0	0	0	0
Radiotherapy						
0) Without	7	2	0	0	0	9
1) With	24	10	1	5	0	40
9) Unknown	0	0	0	0	0	0
Chemotherapy						
0) Without	17	6	0	2	0	25
1) With	14	6	1	3	0	24
9) Unknown	0	0	0	0	0	0
Total	31	12	1	5	0	49

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						
0) Without	31	10	1	5	0	47
1) With	0	2	0	0	0	2
9) Unknown	0	0	0	0	0	0
Radiotherapy						
0) Without	26	8	1	5	0	40
1) With	5	4	0	0	0	9
9) Unknown	0	0	0	0	0	0
Chemotherapy						
0) Without	26	9	1	5	0	41
1) With	5	3	0	0	0	8
9) Unknown	0	0	0	0	0	0
Total	31	12	1	5	0	49

NOS: not otherwise specified.

## Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 49 Cases

## 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	1	1	0	0	0	2
F) (Rad. +Chem.)	8	2	0	1	0	11
AB) Surg. ->Rad.	7	2	0	1	0	10
B) Rad. alone	4	2	0	1	0	7
A) Surg. alone	3	0	0	0	0	3
BA) Rad. ->Surg.	2	1	0	0	0	3
AC) Surg. ->Chem.	2	0	0	0	0	2
BAC) Rad. ->Surg. ->Chem.	0	0	1	1	0	2
Others	4	4	0	1	0	9
Unknown	0	0	0	0	0	0
Total	31	12	1	5	0	49

NOS: not otherwise specified.

Rad. : radiotherapy.

Chem. : chemotherapy.

Surg. : surgery.

Treatment methods in parentheses were given concurrently.



## Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 49 Cases

## 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
H0)	No surgery	14	6	0	3	0	23
E1)	Partial maxillectomy	8	1	0	0	0	9
H5)	Skull base surgery	1	2	1	0	0	4
H9)+	Others	5	3	0	2	0	10
	Unknown	3	0	0	0	0	3
Total		31	12	1	5	0	49

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	29	11	0	5	0	45
2)	Local skin flap	1	1	1	0	0	3
C)	Free FA flap	1	0	0	0	0	1
8)	Others	0	0	0	0	0	0
9)	Unknown	0	0	0	0	0	0
Total		31	12	1	5	0	49

NOS: not otherwise specified.

FA: forearm.

## Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 49 Cases

## 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.	31	10	1	5	0	47
1) Radical N.D.	0	0	0	0	0	0
2) Conservative N.D.	0	1	0	0	0	1
3) Upper N.D.	0	0	0	0	0	0
4) Partial N.D.	0	1	0	0	0	1
5) Enucleation	0	0	0	0	0	0
8) Others	0	0	0	0	0	0
9) Unknown	0	0	0	0	0	0
Total	31	12	1	5	0	49

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.	31	12	1	5	0	49
1) Radical N.D.	0	0	0	0	0	0
2) Conservative N.D.	0	0	0	0	0	0
3) Upper N.D.	0	0	0	0	0	0
4) Partial N.D.	0	0	0	0	0	0
5) Enucleation	0	0	0	0	0	0
8) Others	0	0	0	0	0	0
9) Unknown	0	0	0	0	0	0
Total	31	12	1	5	0	49

NOS: not otherwise specified.

N.D. : neck dissection.

## Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 49 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	7	1	0	0	0	8
1) X-ray	21	10	1	4	0	36
2) <sup>60</sup> Co $\gamma$ -ray	1	1	0	0		2
13) X-ray + electron beam	1	0	0	0	0	1
5) Heavy ion beam	1	0	0	0	0	1
8)+ Others	0	0	0	1	0	1
9) Unknown	0	0	0	0	0	0
Total	31	12	1	5	0	49

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	17	6	0	2	0	25
1) Intravenous	10	3	1	3	0	17
2) Intraarterial	4	3	0	0	0	7
3) Oral	0	0	0	0	0	0
8) Others	0	0	0	0	0	0
9) Unknown	0	0	0	0	0	0
Total	31	12	1	5	0	49

NOS: not otherwise specified.

## Maxillary Sinus (2003)

117 Cases

## Carcinoma of the Maxillary Sinus ----- 117 Cases

## Age Distribution by Gender

Age	Male	Female	Unknown	Total
0 - 9	0	1	0	1
10 - 19	1	0	0	1
20 - 29	0	0	0	0
30 - 39	2	1	0	3
40 - 49	2	3	0	5
50 - 59	29	6	0	35
60 - 69	24	8	0	32
70 - 79	26	10	0	36
80 - 89	2	2	0	4
90 -	0	0	0	0
Unknown	0	0	0	0
Total	86	31	0	117

## Histological Distribution

Histologic type	Number of patients
Neoplasm, malig.	3 ( 2.6%)
Carcinoma, NOS	2 ( 1.7%)
Ca., undiff., NOS	5 ( 4.3%)
S.C.C. in situ, NOS	1 ( 0.9%)
S.C.C., NOS	78 ( 66.7%)
S.C.C., kerat., NOS	7 ( 6.0%)
S.C.C., large cell, nonkerat.	3 ( 2.6%)
S.C.C., spindle cell	1 ( 0.9%)
Adenocarcinoma, NOS	3 ( 2.6%)
Adenoid cystic ca.	8 ( 6.8%)
Mucoepidermoid ca.	2 ( 1.7%)
Acinar cell ca.	1 ( 0.9%)
Malig. melanoma, NOS	2 ( 1.7%)
Rhabdomyosarcoma, NOS	1 ( 0.9%)
Total	117 (100.0%)

Malig., malig.: malignant.

Ca., ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

nonkerat.: nonkeratinizing.

NOS: not otherwise specified.

undiff.: undifferentiated.

kerat.: keratinizing.

## Carcinoma of the Maxillary Sinus ----- 117 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	2	0	1	0	0	0	0	0	0	3
T2	13 *	1 *	0	0	1	1	0	0	0	16
T3	29	2	0	1	2	0	0	1	0	35
T4	44 ***	6 **	0	0	6 *	4	0	1	0	61
TX	0	0	0	0	0	0	0	2	0	2
T-	0	0	0	0	0	0	0	0	0	0
Total	88	9	1	1	9	5	0	4	0	117

M1: 8 cases. Each \* signifies one M1 case.

T-: T classification not defined.

N-: N classification not defined.

## Treatment Method for the Primary Lesion

Treatment method		Number of patients
Surgery	0) Without	38 ( 32.5%)
	1) With	79 ( 67.5%)
	9) Unknown	0 ( 0.0%)
Radiotherapy	0) Without	24 ( 20.5%)
	1) With	93 ( 79.5%)
	9) Unknown	0 ( 0.0%)
Chemotherapy	0) Without	28 ( 23.9%)
	1) With	89 ( 76.1%)
	9) Unknown	0 ( 0.0%)
Total		117 (100.0%)

## Treatment Method for the Cervical Lymph Nodes

Treatment method		Number of patients
Surgery	0) Without	90 ( 76.9%)
	1) With	27 ( 23.1%)
	9) Unknown	0 ( 0.0%)
Radiotherapy	0) Without	87 ( 74.4%)
	1) With	25 ( 21.4%)
	9) Unknown	5 ( 4.3%)
Chemotherapy	0) Without	94 ( 80.3%)
	1) With	22 ( 18.8%)
	9) Unknown	1 ( 0.9%)
Total		117 (100.0%)

## Carcinoma of the Maxillary Sinus ----- 117 Cases

## Sequence of Treatment Methods for the Primary Lesion

Sequence of treatment methods	Number of patients
No treatment	7 ( 6.0%)
F) (Rad. +Chem.)	21 ( 17.9%)
FA) (Rad. +Chem.) -> Surg.	13 ( 11.1%)
A) Surg. alone	10 ( 8.5%)
AF) Surg. -> (Rad. +Chem.)	10 ( 8.5%)
G) (Surg. +Rad. +Chem.)	7 ( 6.0%)
FAB) (Rad. +Chem.) -> Surg. -> Rad.	5 ( 4.3%)
AB) Surg. -> Rad.	4 ( 3.4%)
CAB) Chem. -> Surg. -> Rad.	4 ( 3.4%)
FAF) (Rad. +Chem.)->Surg.->(Rad. +Chem.)	4 ( 3.4%)
B) Rad. alone	3 ( 2.6%)
BA) Rad. -> Surg.	3 ( 2.6%)
C) Chem. alone	3 ( 2.6%)
Others	22 ( 18.8%)
Unknown	1 ( 0.9%)
Total	117 (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
H0) No surgery	38 ( 32.5%)
E1) Partial maxillectomy	25 ( 21.4%)
E3) Total maxillectomy	21 ( 17.9%)
E9) Maxillectomy, other type	13 ( 11.1%)
E4) Extended total maxillectomy	6 ( 5.1%)
E2) Subtotal maxillectomy	5 ( 4.3%)
E4H5) Extended total maxillectomy with skull base surgery	2 ( 1.7%)
H9)+ Others	7 ( 6.0%)
Unknown	0 ( 0.0%)
Total	117 (100.0%)

## Carcinoma of the Maxillary Sinus ----- 117 Cases

## Neck Dissection on the Ipsilateral Side

Neck dissection	Number of patients	
0) No N. D.	90	( 76.9%)
1) Radical N. D.	3	( 2.6%)
2) Conservative N. D.	16	( 13.7%)
3) Upper N. D.	7	( 6.0%)
4) Partial N. D.	1	( 0.9%)
5) Enucleation	0	( 0.0%)
8) Others	0	( 0.0%)
9) Unknown	0	( 0.0%)
Total	117	(100.0%)

N. D. : neck dissection.

## Neck Dissection on the Contralateral Side

Neck dissection	Number of patients	
0) No N. D.	113	( 96.6%)
1) Radical N. D.	2	( 1.7%)
2) Conservative N. D.	2	( 1.7%)
3) Upper N. D.	0	( 0.0%)
4) Partial N. D.	0	( 0.0%)
5) Enucleation	0	( 0.0%)
8) Others	0	( 0.0%)
9) Unknown	0	( 0.0%)
Total	117	(100.0%)

N. D. : neck dissection.



## Carcinoma of the Maxillary Sinus ----- 117 Cases

## Reconstructive Surgery

Reconstructive surgery	Number of patients
0) No reconstruction	88 ( 75.2%)
D) Free RA MC flap	14 ( 12.0%)
1) Skin graft	9 ( 7.7%)
8)+ Others	6 ( 5.1%)
9) Unknown	0 ( 0.0%)
Total	117 (100.0%)

RA: rectus abdominis.

MC: musculocutaneous.

## Radiotherapy

Type of radiotherapy	Number of patients
0) No radiotherapy	24 ( 20.5%)
1) X-ray	79 ( 67.5%)
2) <sup>60</sup> Co $\gamma$ -ray	4 ( 3.4%)
13) X-ray + electron beam	2 ( 1.7%)
3) Electron beam	2 ( 1.7%)
8)+ Others	3 ( 2.6%)
9) Unknown	3 ( 2.6%)
Total	117 (100.0%)

## Carcinoma of the Maxillary Sinus ----- 117 Cases

## Total Radiation Dose for the Primary Lesion

Dose (Gy)	Number of patients
No radiotherapy	24 ( 20.5%)
0 <-< 10	0 ( 0.0%)
10 -< 20	0 ( 0.0%)
20 -< 30	2 ( 1.7%)
30 -< 40	4 ( 3.4%)
40 -< 50	15 ( 12.8%)
50 -< 60	16 ( 13.7%)
60 -< 70	39 ( 33.3%)
70 -< 80	12 ( 10.3%)
80 -< 90	1 ( 0.9%)
90 -	1 ( 0.9%)
Dose unknown	3 ( 2.6%)
No information	0 ( 0.0%)
Total	117 (100.0%)

0 <-< 40 Gy	6.5% of irradiated patients
0 <-< 50 Gy	22.6% of irradiated patients
0 <-< 60 Gy	39.8% of irradiated patients

## Chemotherapy

Route of Administration	Number of patients
0) No chemotherapy	27 ( 23.1%)
1) Intravenous	32 ( 27.4%)
2) Intraarterial	52 ( 44.4%)
3) Oral	1 ( 0.9%)
8) Others	1 ( 0.9%)
9) Unknown	4 ( 3.4%)
Total	117 (100.0%)