

Report of Head and Neck Cancer Registry of Japan
Clinical Statistics of Registered Patients, 2012

Japan Society for Head and Neck Cancer
Cancer Registry Committee

Preface

The Head and Neck Cancer Registry in Japan has been supported by the Japan Society for Head and Neck Cancer since 2003. The annual reports have been published from 2003 to 2005 as supplements of the journal of the Japan Society for Head and Neck Cancer. Through the support of many institutions and the Japanese Society of Oral and Maxillofacial Surgeons, 3,219 treated cases in 2003 were registered in 2005.

Unfortunately, because the Act of the Protection of Personal Information was enforced in 2005, it made cancer registration very difficult in Japan. The Japan Society for Head and Neck Cancer has decided to discontinue the registration of patients treated in 2004 and thereafter.

After several extensive discussions and investigations from the point of view of personal information, maintenance and finances for the registry system, the Japan Society for Head and Neck Cancer decided to resume the registry using the system of University hospital Medical Information Network (UMIN) Center in Japan. The online registration was initiated on May 25, 2012 after renewing the contents and methods of registration.

Last year, the first report of the renewed registration was published and this supplement is for the second year of the registration. The registration without any incentives for doctors of the participating institutions makes it difficult. However, the importance of cancer registration has been recognized widely in Japan, and the number of participating institutions has been increasing. Since this vast organ-based registry led by doctors would contribute to the understanding of statistics and modes of treatment of head and neck cancer in detail, other than hospital-based or population-based cancer registry in Japan, the development of this registry might be necessary.

We would like to express the deepest appreciation to Dr. Masahisa Saikawa, the former chairperson of Cancer Registry Committee, who reconstructed the brand-new registration system. Furthermore, we would like to express our gratitude to all the doctors in the participating institutions and the members of UMIN Center as well.

October 24, 2014

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

Cancer Registry Committee 2013,
Japan Society for Head and Neck Cancer

Directors	Ryuichi Hayashi, Masamichi Nishio, Takakuni Kato
Chairperson	Munenaga Nakamizo
Members	Masahisa Saikawa, Hideaki Chazono, Tetsuo Nishimura, Hiroyuki Harada, Yasushi Fujimoto, and Seiichi Yoshimoto

Data Collection

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

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

From May 25, 2012 to Feb. 3, 2014, a total of 4,104 cases in 2012 were registered from 55 institutions. Two hundred and five cases were excluded (because of the unknown presentation of diseases: 122; previously treated cases: 80; without reported pathology: 2; not malignant pathology: 1), making the total number of registered patients 3,899. The starting date of initial therapy for 2012 cases was during the period from Jan 1 to Dec 31, 2012.

List of 55 Institutions which participate in the Registry in 2012

1. Department of Otorhinolaryngology, Head and Neck Surgery, Asahikawa Medical University Hospital
2. Department of Dentistry and Oral Surgery, Hokuto Hospital
3. Department of Oral Surgery, Hokkaido University Hospital
4. Department of Oral Surgery, Sapporo Medical University Hospital
5. Department of Otorhinolaryngology, Hirosaki University Hospital
6. Department of Otorhinolaryngology, Minami Tohoku Hospital
7. Department of Dentistry and Oral Surgery, Tochigi Medical Center
8. Department of Head and Neck Surgery, Gunma Prefectural Cancer Center
9. Department of Oral Surgery, Saitama Cancer Center
10. Department of Head and Neck Surgery, Saitama Cancer Center
11. Department of Head and Neck Surgery, Saitama Medical University International Medical Center
12. Department of Otorhinolaryngology, Head and Neck Surgery, Chiba University Hospital
13. Division of Head and Neck Surgery, National Cancer Center Hospital East
14. Department of Dentistry and Oral Surgery, Tokyo Dental College Ichikawa General Hospital
15. Department of Oral Surgery, Tokyo Metropolitan Ohtsuka Hospital
16. Department of Otorhinolaryngology, Head and Neck Surgery, Nippon Medical School Hospital
17. Department of Otorhinolaryngology, The University of Tokyo Hospital
18. Department of Maxillofacial Surgery, Faculty of Dentistry, Tokyo Medical and Dental University Hospital
19. Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Tokyo Medical and Dental University Hospital
20. Department of Otorhinolaryngology, Head and Neck Surgery, Faculty of Medicine, Tokyo Medical and Dental University Hospital
21. Department of Oral Surgery, Nippon Dental University Hospital
22. Department of Otorhinolaryngology, Tokyo Medical University Hospital

23. Department of Head and Neck Surgery, National Cancer Center Hospital
24. Department of Head and Neck Surgery, Cancer Institute Hospital
25. Department of Otorhinolaryngology, Jikei University Hospital
26. Department of Otorhinolaryngology and Oral Surgery, Tokyo Medical Center
27. Department of Otolaryngology, Toho University Omori Medical Center
28. Department of Dentistry and Oral Surgery, Tokyo Metropolitan Tama Medical Center
29. Department of Otorhinolaryngology, Head and Neck Surgery, Tokyo Medical University, Hachioji Medical Center
30. Department of Dentistry and Oral Surgery, Yokohama City University Hospital
31. Department of Otorhinolaryngology, Tokai University Hospital
32. Department of Dentistry and Oral Surgery, Toshiba Rinkan Hospital
33. Department of Otorhinolaryngology, Yamanashi Prefectural Central Hospital
34. Department of Otorhinolaryngology, Niigata University Medical and Dental Hospital
35. Department of Oral Reconstructive Surgery, Niigata University Medical and Dental Hospital
36. Department of Otorhinolaryngology, Nagaoka Red Cross Hospital
37. Department of Otorhinolaryngology, Ishikawa Prefectural Central Hospital
38. Department of Head and Neck Surgery, Shizuoka Cancer Center
39. Department of Otorhinolaryngology, Fujita Health University Hospital
40. Department of Head and Neck Surgery, Aichi Cancer Center
41. Department of Otorhinolaryngology, Japanese Red Cross Nagoya Daiichi Hospital
42. Department of Otorhinolaryngology, Nagoya University Hospital
43. Department of Otorhinolaryngology, Head and Neck Surgery, Mie University Hospital
44. Department of Otorhinolaryngology, Head and Neck Surgery, Kyoto University Hospital
45. Department of Otorhinolaryngology, Head and Neck Surgery, Nara Medical University Hospital

46. Department of Oral Surgery, Osaka Dental University Hospital
47. Department of Otorhinolaryngology, Head and Neck Surgery, Osaka Medical College Hospital
48. Department of Otorhinolaryngology, Head and Neck Surgery, Osaka Medical Center for Cancer and Cardiovascular Disease
49. Department of Otorhinolaryngology, Head and Neck Surgery, Kansai Medical University Takii Hospital
50. Department of Oral and Maxillofacial Surgery, Kinki University Hospital
51. Department of Dentistry and Oral Surgery, Wakayama Medical University Hospital
52. Department of Otorhinolaryngology, Head and Neck Surgery, Okayama University Hospital
53. Department of Head and Neck Surgery, Shikoku Cancer Center
54. Department of Otorhinolaryngology, Head and Neck Surgery, Kyushu University Hospital
55. Department of Otorhinolaryngology, Head and Neck Surgery, Kagoshima Municipal Hospital

Contents

List of 55 Institutions which participated in the Registry in 2012	iii
Total Cases	1
Oral Cavity	15
Larynx	33
Hypopharynx	52
Oropharynx	72
Nasopharynx	81
Nasal Cavity and Paranasal Sinuses Excluding the Maxillary Sinus	89
Maxillary Sinus	97
Major Salivary Glands	103

Total Cases (2012)

3899 Cases

Head and Neck Cancer ----- 3899 Cases

Primary Site

Site	Number of patients (%)	
1) Oral cavity	1381	(35.4)
2) Larynx	670	(17.2)
3) Hypopharynx	778	(19.9)
4) Oropharynx	526	(13.5)
5) Nasopharynx	110	(2.8)
6) Nasal cavity, etc	131	(3.4)
7) Maxillary sinus	124	(3.2)
8) Major salivary glands	179	(4.6)
Total	3899	(100.0)

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

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	2	1	3
10 - 19	5	1	6
20 - 29	24	20	44
30 - 39	69	45	114
40 - 49	170	63	233
50 - 59	449	114	563
60 - 69	1110	235	1345
70 - 79	908	229	1137
80 - 89	291	136	427
90 - 99	12	14	26
100 - 109	1	0	1
Total	3041	858	3899

Head and Neck Cancer ----- 3899 Cases

Histological Distribution by Primary Site

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
Acinic cell ca.	1	0	0	1	0	1	1	11	15
Adenocarcinoma, NOS	1	0	0	0	1	6	0	17	25
Adenoid cystic ca.	14	1	0	2	1	11	4	27	60
Adenosquamous ca.	3	1	1	0	0	0	1	0	6
Basal cell adenocarcinoma	2	0	0	0	0	0	0	0	2
Basal cell carcinoma, NOS	0	0	0	0	0	2	0	3	5
Basaloid S.C.C.	1	3	4	1	0	1	0	0	10
Blue nevus, malig.	0	0	0	0	0	0	0	0	0
Carcinoid tumor, NOS	0	0	0	0	0	0	0	0	0
Carcinoma ex pleomorphic adenoma	2	0	0	1	0	0	0	18	21
Carcinoma, NOS	2	1	1	3	5	4	2	5	23
Ca., undiff., NOS	0	0	1	1	4	1	1	0	8
Carcinosarcoma, NOS	0	1	0	0	0	0	1	1	3
Chondrosarcoma, NOS	0	0	0	0	0	0	1	0	1
Clear cell carcinoma, NOS	0	0	0	1	1	0	0	0	2
Cystic adenocarcinoma	0	0	0	0	0	0	0	0	1
Epithelial-myoepithelial carcinoma	0	0	0	0	0	0	0	8	8
Ewing sarcoma, NOS	0	0	0	0	0	0	0	0	0
Fibrosarcoma, NOS	0	0	0	0	0	0	0	0	0
Giant cell sarcoma	0	0	0	0	0	0	0	0	0
Hemangiosarcoma	1	0	0	0	0	0	0	0	1
Large cell carcinoma, NOS	0	1	0	0	0	0	0	0	1
Leiomyosarcoma, NOS	0	0	0	0	0	0	0	0	0
Liposarcoma, NOS	0	0	0	0	0	0	0	0	0
Low-grade cribriform cystadenocarcinoma	0	0	0	0	0	0	0	0	0
Lymphoepithelial carcinoma	0	0	0	1	8	0	0	0	9
Malig. Fibrous histiocytoma	0	0	0	0	0	0	1	0	1
Malig. Lymphoma, NOS	5	0	0	7	1	4	1	8	26
Malig. Melanoma, NOS	6	0	0	1	0	27	1	0	35
Metastasizing pleomorphic adenoma	0	0	0	0	0	0	0	0	0
Mixed tumor, malig., NOS	0	0	0	0	0	0	0	1	1
Mucinous adenocarcinoma	0	0	0	0	0	0	0	1	1
Mucoepidermoid ca.	15	1	0	4	0	0	3	27	50
Myoepithelial carcinoma	0	0	0	1	0	0	0	1	2
Neoplasm, malig.	2	0	0	1	0	0	2	0	5
Neuroendocrine carcinoma, NOS	0	2	1	0	0	0	0	0	3
Olfactory neuroblastoma	0	0	0	0	0	11	0	0	11
Oncocytic carcinoma	0	0	0	0	0	0	0	0	0
Osteosarcoma, NOS	2	0	0	0	0	0	0	0	2
Papillary S.C.C.	2	1	0	0	0	5	0	1	9
Plasmacytoma, NOS	0	0	0	0	0	1	0	0	1
Polymorphous low grade adenocarcinoma	0	0	0	0	0	0	0	0	0
Rhabdomyosarcoma, NOS	2	0	1	0	0	2	2	0	7
Salivary duct carcinoma	0	0	0	1	0	0	0	31	32
Sebaceous carcinoma	0	0	0	0	0	0	0	2	2
Sebaceous lymphadenocarcinoma	0	0	0	0	0	0	0	0	0
Sialoblastoma	0	0	0	0	0	0	0	0	0
Small cell ca., NOS	0	1	1	2	1	4	0	0	9
Spindle cell ca., NOS	5	4	1	1	0	0	2	1	14
S.C.C. in situ with quest. stromal invasion	0	3	0	2	0	0	0	0	5
S.C.C. in situ, NOS	44	10	33	10	0	0	0	0	97
S.C.C. kerat., NOS	131	31	39	30	5	2	8	0	246
S.C.C. large cell, nonkerat.	2	0	1	2	12	1	2	0	20
S.C.C. microinvasive	18	2	15	4	0	1	0	0	40
S.C.C., NOS	1107	604	677	447	67	46	89	16	3053
S.C.C., small cell, nonkeratinizing	0	1	1	2	3	1	1	0	9
S.C.C. spindle cell	2	0	1	0	1	0	1	0	5
Transitional cell carcinoma, NOS	0	0	0	0	0	0	0	0	0
Verrucous ca., NOS	11	2	0	0	0	0	0	0	13
Total	1381	670	778	526	110	131	124	179	3899

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

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

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

Histological Distribution by Primary Site (Male)

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
Acinic cell ca.	0	0	0	1	0	1	1	6	9
Adenocarcinoma, NOS	0	0	0	0	1	3	0	11	15
Adenoid cystic ca.	8	1	0	1	1	5	2	14	32
Adenosquamous ca.	2	1	0	0	0	0	1	0	4
Basal cell adenocarcinoma	0	0	0	0	0	0	0	0	0
Basal cell carcinoma, NOS	0	0	0	0	0	1	0	0	1
Basaloid S.C.C.	1	2	4	1	0	1	0	0	9
Blue nevus, malig.	0	0	0	0	0	0	0	0	0
Carcinoid tumor, NOS	0	0	0	0	0	0	0	0	0
Carcinoma ex pleomorphic adenoma	1	0	0	1	0	0	0	12	14
Carcinoma, NOS	2	1	1	3	4	3	1	5	20
Ca., undiff., NOS	0	0	1	1	4	1	0	0	7
Carcinosarcoma, NOS	0	0	0	0	0	0	1	1	2
Chondrosarcoma, NOS	0	0	0	0	0	0	0	0	0
Clear cell carcinoma, NOS	0	0	0	0	0	0	0	0	0
Cystic adenocarcinoma	0	0	0	0	0	0	0	0	1
Epithelial-myoepithelial carcinoma	0	0	0	0	0	0	0	3	3
Ewing sarcoma, NOS	0	0	0	0	0	0	0	0	0
Fibrosarcoma, NOS	0	0	0	0	0	0	0	0	0
Giant cell sarcoma	0	0	0	0	0	0	0	0	0
Hemangiosarcoma	1	0	0	0	0	0	0	0	1
Large cell carcinoma, NOS	0	1	0	0	0	0	0	0	1
Leiomyosarcoma, NOS	0	0	0	0	0	0	0	0	0
Liposarcoma, NOS	0	0	0	0	0	0	0	0	0
Low-grade cribriform cystadenocarcinoma	0	0	0	0	0	0	0	0	0
Lymphoepithelial carcinoma	0	0	0	0	5	0	0	0	5
Malig.Fibrous histiocytoma	0	0	0	0	0	0	1	0	0
Malig. Lymphoma, NOS	4	0	0	1	0	3	1	5	14
Malig. Melanoma, NOS	3	0	0	1	0	10	1	0	15
Metastasizing pleomorphic adenoma	0	0	0	0	0	0	0	0	0
Mixed tumor, malig., NOS	0	0	0	0	0	0	0	1	1
Mucinous adenocarcinoma	0	0	0	0	0	0	0	0	0
Mucoepidermoid ca.	9	1	0	4	0	0	3	17	34
Myoepithelial carcinoma	0	0	0	1	0	0	0	1	2
Neoplasm, malig.	1	0	0	1	0	0	2	0	4
Neuroendocrine carcinoma, NOS	0	2	1	0	0	0	0	0	3
Olfactory neuroblastoma	0	0	0	0	0	9	0	0	9
Oncocytic carcinoma	0	0	0	0	0	0	0	0	0
Osteosarcoma, NOS	1	0	0	0	0	0	0	0	1
Papillary S.C.C.	1	1	0	0	0	4	0	1	7
Plasmacytoma, NOS	0	0	0	0	0	1	0	0	1
Polymorphous low grade adenocarcinoma	0	0	0	0	0	0	0	0	0
Rhabdomyosarcoma, NOS	1	0	1	0	0	2	2	0	6
Salivary duct carcinoma	0	0	0	1	0	0	0	29	30
Sebaceous carcinoma	0	0	0	0	0	0	0	1	1
sebaceous lymphadenocarcinoma	0	0	0	0	0	0	0	0	0
Sialoblastoma	0	0	0	0	0	0	0	0	0
Small cell ca., NOS	0	1	1	2	1	3	0	0	8
Spindle cell ca., NOS	3	4	1	1	0	0	2	1	12
S.C.C. in situ with quest. stromal invasion	0	3	0	2	0	0	0	0	5
S.C.C. in situ, NOS	23	9	31	10	0	0	0	0	73
S.C.C. kerat., NOS	94	29	37	26	2	1	7	0	196
S.C.C. large cell, nonkerat.	1	0	1	2	6	1	2	0	13
S.C.C. microinvasive	10	2	13	3	0	1	0	0	29
S.C.C., NOS	682	564	620	391	59	40	65	11	2432
S.C.C., small cell, nonkeratinizing	0	1	1	1	2	1	0	0	6
S.C.C. spindle cell	1	0	1	0	0	0	1	0	3
Transitional cell carcinoma, NOS	0	0	0	0	0	0	0	0	0
Verrucous ca., NOS	6	2	0	0	0	0	0	0	8
Total	855	625	714	455	85	91	93	119	3037

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

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

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

Head and Neck Cancer ----- 3899 Cases

Histological Distribution by Primary Site (Female)

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
Acinic cell ca.	1	0	0	0	0	0	0	5	6
Adenocarcinoma, NOS	1	0	0	0	0	3	0	6	10
Adenoid cystic ca.	6	0	0	1	0	6	2	13	28
Adenosquamous ca.	1	0	1	0	0	0	0	0	2
Basal cell adenocarcinoma	2	0	0	0	0	0	0	0	2
Basal cell carcinoma, NOS	0	0	0	0	0	1	0	3	4
Basaloid S.C.C.	0	1	0	0	0	0	0	0	1
Blue nevus, malig.	0	0	0	0	0	0	0	0	0
Carcinoid tumor, NOS	0	0	0	0	0	0	0	0	0
Carcinoma ex pleomorphic adenoma	1	0	0	0	0	0	0	6	7
Carcinoma, NOS	0	0	0	0	1	1	1	0	3
Ca., undiff., NOS	0	0	0	0	0	0	1	0	1
Carcinosarcoma, NOS	0	1	0	0	0	0	0	0	1
Chondrosarcoma, NOS	0	0	0	0	0	0	1	0	1
Clear cell carcinoma, NOS	0	0	0	1	1	0	0	0	2
Cystic adenocarcinoma	0	0	0	0	0	0	0	0	0
Epithelial-myoeplithelial carcinoma	0	0	0	0	0	0	0	5	5
Ewing sarcoma, NOS	0	0	0	0	0	0	0	0	0
Fibrosarcoma, NOS	0	0	0	0	0	0	0	0	0
Giant cell sarcoma	0	0	0	0	0	0	0	0	0
Hemangiosarcoma	0	0	0	0	0	0	0	0	0
Large cell carcinoma, NOS	0	0	0	0	0	0	0	0	0
Leiomyosarcoma, NOS	0	0	0	0	0	0	0	0	0
Liposarcoma, NOS	0	0	0	0	0	0	0	0	0
Low-grade cribriform cystadenocarcinoma	0	0	0	0	0	0	0	0	0
Lymphoepithelial carcinoma	0	0	0	1	3	0	0	0	4
Malig.Fibrous histiocytoma	0	0	0	0	0	0	0	0	0
Malig. Lymphoma, NOS	1	0	0	6	1	1	0	3	12
Malig. Melanoma, NOS	3	0	0	0	0	17	0	0	20
Metastasizing pleomorphic adenoma	0	0	0	0	0	0	0	0	0
Mixed tumor, malig., NOS	0	0	0	0	0	0	0	0	0
Mucinous adenocarcinoma	0	0	0	0	0	0	0	1	1
Mucoepidermoid ca.	6	0	0	0	0	0	0	10	16
Myoepithelial carcinoma	0	0	0	0	0	0	0	0	0
Neoplasm, malig.	1	0	0	0	0	0	0	0	1
Neuroendocrine carcinoma, NOS	0	0	0	0	0	0	0	0	0
Olfactory neuroblastoma	0	0	0	0	0	2	0	0	2
Oncocytic carcinoma	0	0	0	0	0	0	0	0	0
Osteosarcoma, NOS	1	0	0	0	0	0	0	0	1
Papillary S.C.C.	1	0	0	0	0	1	0	0	2
Plasmacytoma, NOS	0	0	0	0	0	0	0	0	0
Polymorphous low grade adenocarcinoma	0	0	0	0	0	0	0	0	0
Rhabdomyosarcoma, NOS	1	0	0	0	0	0	0	0	1
Salivary duct carcinoma	0	0	0	0	0	0	2	0	2
Sebaceous carcinoma	0	0	0	0	0	0	0	1	1
sebaceous lymphadenocarcinoma	0	0	0	0	0	0	0	0	0
Sialoblastoma	0	0	0	0	0	0	0	0	0
Small cell ca., NOS	0	0	0	0	0	1	0	0	1
Spindle cell ca., NOS	2	0	0	0	0	0	0	0	2
S.C.C. in situ with quest. stromal invasion	0	0	0	0	0	0	0	0	0
S.C.C. in situ, NOS	21	1	2	0	0	0	0	0	24
S.C.C. kerat., NOS	37	2	2	4	3	1	1	0	50
S.C.C. large cell, nonkerat.	1	0	0	0	6	0	0	0	7
S.C.C. microinvasive	8	0	2	1	0	0	0	0	11
S.C.C., NOS	425	40	57	56	8	6	24	5	621
S.C.C., small cell, nonkeratinizing	0	0	0	1	1	0	1	0	3
S.C.C. spindle cell	1	0	0	0	1	0	0	0	2
Transitionl cell carcinoma, NOS	0	0	0	0	0	0	0	0	0
Verrucous ca., NOS	5	0	0	0	0	0	0	0	5
Total	526	45	64	71	25	40	33	58	862

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

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

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

Head and Neck Cancer ----- 3899 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	5	1	0	0	0	0	0	0	0	0	0	6
Tis	88	0	0	0	0	0	0	0	0	0	0	88
T1	752	30	9	7	35	10	6	2	2	1	5	859
T2	700	148	10	29	207	71	28	0	2	0	6	1201
T3	316	81	7	12	132	65	11	1	1	0	3	629
T4	21	29	19	2	14	8	4	1	3	0	0	101
T4a	312	97	0	11	202	143	21	0	0	2	3	791
T4b	42	6	0	2	23	25	4	0	0	1	1	104
TX	3	0	0	0	3	0	0	0	0	8	1	15
T-	32	3	1	0	2	2	0	0	1	0	64	105
Total	2271	395	46	63	618	324	74	4	9	12	83	3899

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

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

T and N Status (M0 Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	5	1	0	0	0	0	0	0	0	0	0	6
Tis	87	0	0	0	0	0	0	0	0	0	0	87
T1	738	30	8	7	34	10	6	2	2	0	5	842
T2	683	135	9	27	198	67	25	0	2	0	3	1149
T3	305	78	7	11	123	63	8	0	1	0	2	598
T4	20	25	16	1	12	7	2	1	3	0	0	87
T4a	303	90	0	11	183	123	19	0	0	0	2	731
T4b	40	5	0	2	20	19	3	0	0	1	1	91
TX	3	0	0	0	2	0	0	0	0	3	0	8
T-	30	3	1	0	1	2	0	0	0	0	2	39
Total	2214	367	41	59	573	291	63	3	8	4	15	3638

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

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

Head and Neck Cancer ----- 3899 Cases

T and N status (M1 Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0	0	0
T1	0	0	0	0	1	0	0	0	0	0	0	1
T2	4	4	1	1	6	1	2	0	0	0	1	20
T3	2	2	0	1	8	2	2	1	0	0	1	19
T4	0	3	3	1	0	1	1	0	0	0	0	9
T4a	2	1	0	0	11	17	2	0	0	0	0	33
T4b	1	1	0	0	3	5	1	0	0	0	0	11
TX	0	0	0	0	1	0	0	0	0	1	0	2
T-	0	0	0	0	1	0	0	0	1	0	0	2
Total	9	11	4	3	31	26	8	1	1	1	2	97

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

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

T and N status (MX & M- Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
Tis	1	0	0	0	0	0	0	0	0	0	0	1
T1	14	0	1	0	0	0	0	0	0	0	1	16
T2	13	9	0	1	3	3	1	0	0	0	2	32
T3	9	1	0	0	1	0	1	0	0	0	0	12
T4	1	1	0	0	2	0	1	0	0	0	0	5
T4a	7	6	0	0	8	3	0	0	0	2	1	27
T4b	1	0	0	0	0	1	0	0	0	0	0	2
TX	0	0	0	0	0	0	0	0	0	4	1	5
T-	2	0	0	0	0	0	0	0	0	0	62	64
Total	48	17	1	1	14	7	3	0	0	6	67	164

M-: without reported M classification.

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

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

Treatment Method for the Primary Lesion by Primary Site

Treatment method	(1) Oral cavity	(2) Larynx	(3) Hypo-pharynx	(4) Oro-pharynx	(5) Naso-pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major Salivary gl.	Total
Surgery									
Without	171	439	385	328	105	81	64	20	1593
With	1143	207	372	188	3	45	57	145	2160
Unknown	67	24	21	10	2	5	3	14	146
Radiotherapy									
Without	1044	177	313	189	8	26	30	94	1881
With	270	469	444	327	100	99	91	71	1871
Unknown	66	24	21	10	2	6	3	14	146
Chemotherapy									
Without	1003	459	387	253	19	57	38	144	2360
With	311	187	370	263	89	69	83	21	1393
Unknown	67	24	21	10	2	5	3	14	146
Total	1381	670	778	526	110	131	124	179	3899

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

Treatment Method for the Cervical Lymph Nodes by Primary Site

Treatment method	(1) Oral cavity	(2) Larynx	(3) Hypo-pharynx	(4) Oro-pharynx	(5) Naso-pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major Salivary gl.	Total
Surgery									
Without	750	521	463	360	106	117	93	53	2463
With	560	122	293	156	2	10	28	111	1282
Unknown	71	27	22	10	2	4	3	15	154
Radiotherapy									
Without	1117	506	378	231	14	107	88	123	2564
With	193	137	378	285	94	20	33	41	1181
Unknown	71	27	22	10	2	4	3	15	154
Chemotherapy									
Without	1099	531	426	280	24	107	84	151	2702
With	211	112	330	236	84	20	37	13	1043
Unknown	71	27	22	10	2	4	3	15	154
Total	1381	670	778	526	110	131	124	179	3899

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

Sequence of Treatment Methods for the Primary Lesion by Primary Site

Sequence of treatment methods	(1) Oral cavity	(2) Larynx	(3) Hypo-pharynx	(4) Oro-pharynx	(5) Naso-pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
No treatment	26	10	21	15	1	4	7	6	90
A) Surg. alone	864	155	244	141	3	16	14	79	1516
F) (Rad.+Chem.)	59	127	176	123	47	31	44	1	608
B) Rad. alone	48	267	80	64	15	27	3	4	508
AB) Surg.->Rad.	42	19	40	28	0	10	10	51	200
CF) Chem.->(Rad.+Chem.)	3	19	54	57	14	6	3	2	158
AF) Surg.->(Rad.+Chem.)	39	12	35	13	0	3	9	6	117
CA) Chem.->Surg.	73	3	16	11	0	2	4	0	109
C) Chem. alone	23	7	22	14	4	4	1	5	80
AC) Surg.->Chem.	30	1	7	2	0	1	2	2	45
FA) (Rad.+Chem.)->Surg.	15	6	6	7	0	4	7	0	45
FC) (Rad.+Chem.)->Chem.	3	3	10	3	19	1	3	0	42
CB) Chem.->Rad.	3	5	16	8	2	4	0	0	38
CAF) Chem.->Surg.->(Rad.+Chem.)	9	0	8	5	0	1	1	0	24
CAB) Chem.->Surg.->Rad.	6	0	8	5	0	2	0	1	22
CAC) Chem.->Surg.->Chem.	9	0	2	4	0	0	1	0	16
BA) Rad.->Surg.	4	5	1	2	0	0	1	0	13
BC) Rad.->Chem.	6	1	0	1	1	3	0	1	13
CFA) Chem.->(Rad.+Chem.)->Surg.	7	0	1	1	0	0	1	0	10
D) (Surg.+Rad.)	0	1	0	2	0	1	2	2	8
Others	45	5	10	10	2	6	8	5	91
Unknown	67	24	21	10	2	5	3	14	146
Total	1381	670	778	526	110	131	124	179	3899

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

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Head and Neck Cancer ----- 3899 Cases

Surgical Methods for the Primary Lesion by Primary Site

Surgical method	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
No surgery	180	439	385	292	105	81	63	20	1565
A1) Partial glossectomy	422	0	0	0	0	0	0	0	422
F5) Total pharyngolaryngectomy	0	4	133	1	0	0	0	0	138
G5) Total laryngectomy	0	129	1	0	0	0	0	0	130
D1) Partial maxillectomy	103	0	0	0	0	4	15	0	122
F1)G1) Endoscopic resection	0	12	83	1	0	0	0	0	96
E3) Unilateral resection of the lateral	0	0	0	84	0	0	0	0	84
C4) Resection of the buccal mucosa	83	0	0	0	0	0	0	0	83
B2) Segmental mandibulectomy	81	0	0	0	0	0	0	1	82
C2) Resection of the floor of mouth	76	0	0	0	0	0	0	1	77
A5) Subtotal glossectomy	71	0	0	2	0	0	0	0	73
wall of oropharynx									
B1) Marginal mandibulectomy	62	0	0	0	0	0	0	0	62
A2) Hemiglossectomy (anterior 2/3 rd s)	44	0	0	0	0	0	0	0	44
H4) Total parotidectomy	0	0	0	0	0	0	0	43	43
A4) Hemiglossectomy	39	0	0	3	0	0	0	0	42
G2) Transoral resection	0	38	2	0	0	0	0	0	40
H6) Total submandibulectomy	0	0	0	0	0	0	0	36	36
C9) Resection of oral cavity, NOS	33	0	0	1	0	1	0	0	35
F3) Partial hypopharyngectomy	0	0	33	0	0	0	0	0	33
D2) Total maxillectomy	3	0	0	0	0	0	28	0	31
F2) Transoral resection of the pharynx	0	0	29	1	0	0	0	0	30
E1) Resection of the root of tongue	0	0	0	28	0	0	0	0	28
E9) Resection of the oropharynx, NOS	1	0	0	27	0	0	0	0	28
A3) Subtotal glossectomy (anterior 2/3 rd s)	27	0	0	0	0	0	0	0	27
Others	68	18	84	69	2	39	15	60	355
Unknown	88	30	28	17	3	6	3	18	193
Total	1381	670	778	526	110	131	124	179	3899

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

Head and Neck Cancer ----- 3899 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, etc.	(7) Maxil- lary sinus	(8) Major salivary glands	Total
0) No N.D.	748	517	463	358	106	115	94	55	2456
1) Total N.D.	166	21	43	48	1	3	1	30	313
2) Selective N.D.	372	98	241	103	0	8	22	70	914
3) Lymph node excision	5	0	0	1	0	0	1	6	13
8) Others	2	0	1	0	0	0	0	0	3
9) Unknown	88	34	30	16	3	5	6	18	200
Total	1381	670	778	526	110	131	124	179	3899

Nasal cavity, etc. : nasal cavity and paranasal sinuses (excluding the maillary 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, etc.	(7) Maxil- lary sinus	(8) Major salivary glands	Total
0) No N.D.	1139	568	538	479	106	124	118	160	3232
1) Total N.D.	16	9	14	7	0	0	0	0	46
2) Selective N.D.	146	58	192	26	0	3	1	2	428
3) Lymph node excision	4	0	0	1	0	0	0	0	5
8) Others	3	0	0	0	1	0	0	0	4
9) Unknown	73	35	34	13	3	4	5	17	184
Total	1381	670	778	526	110	131	124	179	3899

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

N.D.: neck dissection.

Head and Neck Cancer ----- 3899 Cases

Reconstructive Surgery by Primary Site

Reconstructive surgery	(1) Oral cavity	(2) Larynx	(3) Hypo-pharynx	(4) Oro-pharynx	(5) Naso-pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No reconstruction	845	624	510	436	108	108	85	122	2838
B) Free jejunal flap	0	8	195	8	0	0	0	0	211
D) Free RA MC flap	120	0	0	27	0	5	22	11	185
E) Free ALT flap	107	1	7	25	0	1	2	4	147
C) Free FA flap	83	5	17	8	0	2	1	0	116
1) Skin graft	63	0	0	0	0	1	3	1	68
G) Free fibular OC flap	20	0	0	0	0	0	6	1	27
5) PM MC flap	11	4	2	2	0	0	0	2	21
F) Free scapular OC flap	16	0	0	0	0	0	0	0	16
2) Local skin flap	6	1	1	2	0	3	0	1	14
I) Free nerve graft	0	0	0	0	0	0	0	14	14
3) Mucosal flap	5	0	1	2	0	2	0	0	10
4) DP flap	1	3	1	0	0	0	0	0	5
6) Free LD MC flap	2	0	0	0	0	0	0	0	2
7) Gastric pull-up	0	0	2	0	0	0	0	0	2
E+I)	0	0	0	0	0	0	0	2	2
8) Others	27	0	2	3	0	4	2	7	45
9) Unknown	75	24	40	13	2	5	3	14	176
Total	1381	670	778	526	110	131	124	179	3899

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

RA: rectus abdominis. MC: musculocutaneous.

FA: forearm. OC: osteocutaneous.

DP: deltopectoral. LD: latissimus dorsi.

ALT: anterolateral thigh.

PM: pectoralis major.

Radiotherapy by Primary Site

Type of radiotherapy	(1) Oral cavity	(2) Larynx	(3) Hypo-pharynx	(4) Oro-pharynx	(5) Naso-pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No radiotherapy	999	176	311	186	7	26	28	93	1826
1) X-ray (and/or electron beam)	275	467	443	319	99	76	91	65	1835
2) Particle beam	3	1	0	0	1	22	1	6	34
3) B.T.	18	0	0	2	0	0	0	0	20
4) X-ray + Particle beam	4	0	0	0	0	0	0	0	4
5) X-ray + B.T.	2	0	0	0	0	0	0	0	2
8) Others	1	0	0	1	0	1	0	1	4
9) Unknown	79	26	24	18	3	6	4	14	174
Total	1381	670	778	526	110	131	124	179	3899

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

Head and Neck Cancer ----- 3899 Cases

Chemotherapy by Primary site

Route of administration	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No chemotherapy	975	452	386	252	19	57	34	142	2317
1) I.V.	132	140	313	220	74	58	31	19	987
3) Oral	102	37	35	12	3	2	4	4	199
2) I.A.	52	9	9	12	0	4	42	0	128
5) I.V.+Oral	21	4	5	0	10	3	0	0	43
6) I.A.+Oral	9	1	0	11	0	0	1	0	22
4) I.V.+I.A.	5	0	2	4	0	0	7	0	18
7) I.V.+I.A.+Oral	4	0	0	0	0	0	0	0	4
9) Unknown	81	27	28	15	4	7	5	14	181
Total	1381	670	778	526	110	131	124	179	3899

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

I.V.: intravenous.
I.A.: intraarterial.

Oral Cavity (2012)

1381 Cases

Carcinoma of the Oral Cavity ----- 1381 Cases

Primary Site

Site	Number of patients (%)	
1) Lip	12	(0.9)
2) Buccal mucosa	125	(9.0)
3) Retro-molar area	23	(1.7)
4) Lower gingiva	183	(13.3)
5) Upper gingiva	129	(9.3)
6) Hard palate	43	(3.1)
7) Floor of mouth	125	(9.0)
8) Tongue	737	(53.4)
9) Oral cavity, NOS	4	(0.3)
Total	1381	(100.0)

NOS: not otherwise specified

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	2	2
20 - 29	18	14	32
30 - 39	46	33	79
40 - 49	65	31	96
50 - 59	141	59	200
60 - 69	280	123	403
70 - 79	218	141	359
80 - 89	80	110	190
90 - 99	6	13	19
Total	855	526	1381

Carcinoma of the Oral Cavity ----- 1381 Cases

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

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

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

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	3	1	4
40 - 49	1	1	2
50 - 59	8	5	13
60 - 69	20	15	35
70 - 79	22	23	45
80 - 89	8	14	22
90 - 99	1	3	4
Total	63	62	125

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

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	1	1
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	5	0	5
60 - 69	6	0	6
70 - 79	5	2	7
80 - 89	3	0	3
90 - 99	0	0	0
Total	20	3	23

Carcinoma of the Oral Cavity ----- 1381 Cases

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

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	4	2	6
50 - 59	15	7	22
60 - 69	31	17	48
70 - 79	32	25	57
80 - 89	12	35	47
90 - 99	1	2	3
Total	95	88	183

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

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	0	0
20 - 29	0	1	1
30 - 39	0	0	0
40 - 49	2	2	4
50 - 59	9	7	16
60 - 69	17	16	33
70 - 79	23	25	48
80 - 89	8	16	24
90 - 99	1	1	2
Total	61	68	129

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

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	1	1
30 - 39	1	1	2
40 - 49	1	0	1
50 - 59	1	3	4
60 - 69	9	2	11
70 - 79	11	5	16
80 - 89	3	5	8
90 - 99	0	0	0
Total	26	17	43

Carcinoma of the Oral Cavity ----- 1381 Cases

Carcinoma of the Floor of Mouth

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	1	2
40 - 49	7	1	8
50 - 59	21	2	23
60 - 69	43	4	47
70 - 79	25	6	31
80 - 89	6	7	13
90 - 99	0	1	1
Total	103	22	125

Carcinoma of the Tongue

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	2	2
20 - 29	17	11	28
30 - 39	41	30	71
40 - 49	47	25	72
50 - 59	81	36	117
60 - 69	152	65	217
70 - 79	97	54	151
80 - 89	40	30	70
90 - 99	3	6	9
Total	478	259	737

Carcinoma of the Oral Cavity, NOS

Age Distribution by Gender

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

NOS: not otherwise specified

Carcinoma of the Oral Cavity ----- 1381 Cases

Histological Distribution by Primary Site

Histologic type	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Acinic cell ca.	0	0	0	0	0	0	0	0	1	1
Adenocarcinoma, NOS	0	1	0	0	0	0	0	0	0	1
Adenoid cystic ca.	1	3	0	0	1	3	4	2	0	14
Adenosquamous ca.	0	0	0	1	0	0	0	2	0	3
Basal cell adenocarcinoma	0	0	0	0	0	2	0	0	0	2
Basaloid S.C.C.	0	1	0	0	0	0	0	0	0	1
Carcinoma ex pleomorphic adenoma	0	2	0	0	0	0	0	0	0	2
Carcinoma, NOS	0	0	0	0	1	1	0	0	0	2
Hemangiosarcoma	0	0	0	0	1	0	0	0	0	1
Malign. Lymphoma, NOS	0	0	0	1	3	1	0	0	0	5
Malign. Melanoma, NOS	0	0	0	0	3	3	0	0	0	6
Mucoepidermoid ca.	0	2	2	0	3	5	0	3	0	15
Neoplasm, malign.	0	0	0	0	0	0	0	2	0	2
Osteosarcoma, NOS	0	0	0	1	1	0	0	0	0	2
Papillary S.C.C.	0	0	0	0	1	0	0	1	0	2
Rhabdomyosarcoma, NOS	0	1	0	1	0	0	0	0	0	2
Spindle cell ca., NOS	0	0	0	0	0	0	0	5	0	5
S.C.C. in situ, NOS	1	4	0	2	3	1	2	31	0	44
S.C.C. kerat., NOS	0	8	5	27	10	3	11	67	0	131
S.C.C. large cell, nonkerat.	0	0	0	0	0	0	0	2	0	2
S.C.C. microinvasive	0	2	1	0	1	0	1	13	0	18
S.C.C., NOS	10	100	15	147	100	24	104	604	3	1107
S.C.C. spindle cell	0	0	0	0	0	0	1	1	0	2
Verrucous ca., NOS	0	1	0	3	1	0	2	4	0	11
Total	12	125	23	183	129	43	125	737	4	1381

NOS: not otherwise specified.
 ca., Ca.: carcinoma.
 nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.

Malign., malign.: malignant.

Carcinoma of the Oral Cavity ----- 1381 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	3	1	0	0	0	0	0	0	0	4
Tis	24	0	0	0	0	0	0	0	0	24
T1	361	7	0	0	7	3	0	1	2	381
T2	333 (3)	63	1	6	44 (1)	12	3	0	2	464
T3	65	14	1	1	28 (1)	10	0	0	0	119
T4	11	7	0	0	8	3	2 (1)	0	0	31
T4a	132 (1)	36	0	4	72 (2)	56 (2)	2 (1)	2	3	307
T4b	6	1	0	1	5	3 (1)	0	0	1	17
TX	1	0	0	0	0	0	0	1	1	3
T-	7	3	0	0	0	0	0	0	21	31
Total	943	132	2	12	164	87	7	4	30	1381

M1: 13 cases. Number in parentheses indicate numbers of M1 cases.

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

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

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	1	0	0	0	0	0	0	0	0	1
T1	5	0	0	0	0	0	0	0	0	5
T2	3	0	0	0	0	0	0	0	0	3
T3	0	0	0	0	1	0	0	0	0	1
T4	0	0	0	0	0	0	0	0	0	0
T4a	1	0	0	0	0	0	0	1	0	2
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	10	0	0	0	1	0	0	1	0	12

M1: 0 case.

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

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

Carcinoma of the Oral Cavity ----- 1381 Cases

Carcinoma of the Buccal mucosa

T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	2	0	0	0	0	0	0	0	0	2
T1	23	0	0	0	1	0	0	1	0	25
T2	36	5	1	1	9	0	0	0	0	52
T3	11	3	0	0	3	0	0	0	0	17
T4	2	1	0	0	0	1	0	0	0	4
T4a	6	1	0	0	7 *	2	0	0	0	16
T4b	2	0	0	0	1	0	0	0	1	4
TX	0	0	0	0	0	0	0	0	0	0
T-	2	0	0	0	0	0	0	0	3	5
Total	84	10	1	1	21	3	0	1	4	125

M1: one case. * signifies one M1 case.

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

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

Carcinoma of the Retromolar Area

T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	1	0	0	0	0	0	0	0	0	1
T1	4	0	0	0	0	0	0	0	0	4
T2	4	1	0	0	1	0	0	0	0	6
T3	1	0	0	0	0	0	0	0	0	1
T4	1	0	0	0	1	0	0	0	0	2
T4a	5	1	0	0	1	0	0	0	0	7
T4b	0	0	0	1	0	0	0	0	0	1
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	1	1
Total	16	2	0	1	3	0	0	0	1	23

M1: 0 case.

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

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

Carcinoma of the Oral Cavity ----- 1381 Cases

Carcinoma of the Lower Gingiva

T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0										0
Tis	1	0	0	0	0	0	0	0	0	1
T1	25	2	0	0	0	2	0	0	1	30
T2	32	10	0	1	3	0	0	0	0	46
T3	7	2	0	0	5	1	0	0	0	15
T4	2	2	0	0	4	0	0	0	0	8
T4a	34	11	0	0	19 *	8 *	0	0	1	73
T4b	4	0	0	0	3	0	0	0	0	7
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	3	3
Total	105	27	0	1	34	11	0	0	5	183

M1: 2 cases. * signifies one M1 case.

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

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

Carcinoma of the Upper Gingiva

T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	17	0	0	0	0	0	0	0	0	17
T2	35	5	0	1	2	2	0	0	0	45
T3	3	0	0	0	0	0	0	0	0	3
T4	1	0	0	0	1	0	1	0	0	3
T4a	36	4	0	2	5	6	0	0	0	53
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	1	1
T-	2	0	0	0	0	0	0	0	5	7
Total	94	9	0	3	8	8	1	0	6	129

M1: 0 case.

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

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

Carcinoma of the Oral Cavity ----- 1381 Cases

Carcinoma of the Hard Palate

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	11	1	0	0	0	0	0	0	0	12
T2	4	1	0	0	2 *	0	0	0	1	8
T3	7	0	0	0	0	0	0	0	0	7
T4	2	0	0	0	0	0	0	0	0	2
T4a	5	0	0	0	0	2	0	0	0	7
T4b	0	0	0	0	0	2	0	0	0	2
TX	0	0	0	0	0	0	0	0	0	0
T-	2	0	0	0	0	0	0	0	2	4
Total	32	2	0	0	2	4	0	0	3	43

M1: one case. * signifies one M1 case.

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

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

Carcinoma of the Floor of Mouth

T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	1	0	0	0	0	0	0	0	0	1
T1	32	0	0	0	0	0	0	0	0	32
T2	23 **	8	0	2	4	5	2	0	0	44
T3	8	0	0	0	1	1	0	0	0	10
T4	2	2	0	0	0	0	0	0	0	4
T4a	12 *	2	0	0	8	8	1 *	0	1	32
T4b	0	0	0	0	1	0	0	0	0	1
TX	0	0	0	0	0	0	0	0	0	0
T-	1	0	0	0	0	0	0	0	0	1
Total	79	12	0	2	14	14	3	0	1	125

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

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

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

Carcinoma of the Oral Cavity ----- 1381 Cases

Carcinoma of the Tongue

T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	2	1	0	0	0	0	0	0	0	3
Tis	18	0	0	0	0	0	0	0	0	18
T1	243	4	0	0	6	1	0	0	1	255
T2	196 *	33	0	1	23	5	1	0	1	260
T3	28	9	1	1	18 *	8	0	0	0	65
T4	1	1	0	0	2	2	1 *	0	0	7
T4a	33	17	0	2	32	29 *	1	1	1	116
T4b	0	1	0	0	0	1 *	0	0	0	2
TX	1	0	0	0	0	0	0	0	1	2
T-	1	1	0	0	0	0	0	0	7	9
Total	523	67	1	4	81	46	3	1	11	737

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

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

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

Carcinoma of the Oral Cavity, NOS

T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	1	0	0	0	0	0	0	0	0	1
T2	0	0	0	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0	0	0	0
T4	0	1	0	0	0	0	0	0	0	1
T4a	0	0	0	0	0	1	0	0	0	1
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	1	0	0	0	0	0	0	0	0	1
Total	2	1	0	0	0	1	0	0	0	4

M1: 0 case.

NOS: not otherwise specified.

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

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

Carcinoma of the Oral Cavity ----- 1381 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Surgery										
Without	4	8	5	25	27	9	15	77	1	171
With	8	110	18	145	97	33	103	627	2	1143
Unknown	0	7	0	13	5	1	7	33	1	67
Radiotherapy										
Without	10	89	18	138	87	25	99	577	1	1044
With	2	29	5	32	37	17	19	127	2	270
Unknown	0	7	0	13	5	1	7	33	1	66
Chemotherapy										
Without	11	95	16	118	85	29	90	558	1	1003
With	1	23	7	52	39	13	28	146	2	311
Unknown	0	7	0	13	5	1	7	33	1	67
Total	12	125	23	183	129	43	125	737	4	1381

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Surgery										
Without	10	63	12	67	84	31	55	428	0	750
With	2	55	11	102	38	11	63	275	3	560
Unknown	0	7	0	14	7	1	7	34	1	71
Radiotherapy										
Without	12	102	20	149	102	37	102	591	2	1117
With	0	16	3	20	20	5	16	112	1	193
Unknown	0	7	0	14	7	1	7	34	1	71
Chemotherapy										
Without	12	100	18	136	103	37	95	596	2	1099
With	0	18	5	33	19	5	23	107	1	211
Unknown	0	7	0	14	7	1	7	34	1	71
Total	12	125	23	183	129	43	125	737	4	1381

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
No treatment	1	2	1	3	1	0	5	13	0	26
A) Surg. alone	7	77	14	99	70	22	71	503	1	864
CA) Chem.->Surg.	1	6	1	18	12	1	9	25	0	73
F) (Rad.+Chem.)	0	9	1	3	13	4	0	29	0	59
B) Rad. alone	2	4	0	7	10	1	5	19	0	48
AB) Surg.->Rad.	0	3	1	7	3	5	5	18	0	42
AF) Surg.->(Rad.+Chem.)	0	2	1	5	2	1	2	26	0	39
AC) Surg.->Chem.	0	2	0	4	1	1	5	17	0	30
C) Chem. alone	0	0	2	8	1	0	4	8	0	23
FA) (Rad.+Chem.)->Surg.	0	2	1	1	2	1	1	7	0	15
CAC) Chem.->Surg.->Chem.	0	1	0	1	0	0	4	3	0	9
CAF) Chem.->Surg.->(Rad.+Chem.)	0	1	0	0	0	0	1	6	1	9
CFA) Chem.->(Rad.+Chem.)->Surg.	0	1	1	0	0	0	1	4	0	7
BC) Rad.->Chem.	0	2	0	0	1	0	0	3	0	6
CAB) Chem.->Surg.->Rad.	0	1	0	2	1	0	1	1	0	6
FAC) (Rad.+Chem.)->Surg.->Chem.	0	1	0	0	2	0	1	1	0	5
ACA) Surg.->Chem.->Surg	0	0	0	2	1	0	0	1	0	4
BA) Rad.->Surg.	0	1	0	1	1	0	0	1	0	4
CB) Chem.->Rad.	0	1	0	0	1	1	0	0	0	3
CF) Chem.->(Rad.+Chem.)	0	0	0	0	0	1	0	2	0	3
E) (Surg.+Chem.)	0	0	0	1	1	0	0	1	0	3
FC) (Rad.+Chem.)->Chem.	0	0	0	2	0	0	0	1	0	3
AA) Surg.->Surg.	0	1	0	0	0	0	0	2	0	3
Others	1	1	0	6	1	4	3	13	1	30
Unknown	0	7	0	13	5	1	7	33	1	67
Total	12	125	23	183	129	43	125	737	4	1381

NOS: not otherwise specified.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Chem.: chemotherapy.

Rad.: radiotherapy.

Carcinoma of the Oral Cavity ----- 1381 Cases

Surgical Methods for the Primary Lesion by Subsite

Surgical 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
X0) No surgery	4	18	4	25	27	9	15	78	0	180
A1) Partial glossectomy	0	1	0	0	0	0	1	420	0	422
D1) Partial maxillectomy	0	1	0	0	87	15	0	0	0	103
C4) Resection of the buccal mucosa	0	76	6	1	0	0	0	0	0	83
B2) Segmental mandibulectomy	0	3	5	69	0	0	3	0	1	81
C2) Resection of the floor of mouth	0	0	0	0	0	0	74	2	0	76
A5) Subtotal glossectomy	0	0	0	0	0	0	7	64	0	71
B1) Marginal mandibulectomy	1	5	4	49	0	0	3	0	0	62
A2) Hemiglossectomy (anterior 2/3 rd s)	0	0	0	0	1	0	1	42	0	44
A4) Hemiglossectomy	0	0	0	0	0	0	0	39	0	39
C9) Resection of oral cavity, NOS	0	10	3	1	2	14	2	1	0	33
A3) Subtotal glossectomy (anterior 2/3 rd s)	0	0	0	0	0	0	4	23	0	27
A6) Total glossectomy	0	0	0	0	0	0	5	15	0	20
C3) Resection of lower gingiva	0	0	0	10	0	0	0	0	0	10
B3) Hemimandibulectomy	0	0	0	8	0	0	0	0	1	9
D9) Resection of maxilla, NOS	0	1	0	0	3	4	0	0	0	8
C1) Resection of the lip	7	0	0	0	0	0	0	0	0	7
A9) Resection of tongue, NOS	0	0	0	0	0	0	1	6	0	7
B9) Resection of mandible, NOS	0	0	0	3	0	0	0	0	1	4
D2) Total maxillectomy	0	0	0	0	3	0	0	0	0	3
Others	0	1	1	1	0	0	0	1	0	4
Unknown method	0	2	0	3	1	0	2	13	0	21
Unknown	0	7	0	13	5	1	7	33	1	67
Total	12	125	23	183	129	43	125	737	4	1381

NOS: not otherwise specified.

Carcinoma of the Oral Cavity ----- 1381 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No N.D.	10	62	12	68	84	31	55	426	0	748
1) Total N.D.	0	11	2	22	18	4	14	93	2	166
2) Selective N.D.	2	41	9	74	19	7	48	171	1	372
3) Lymph node excision	0	1	0	2	0	0	0	2	0	5
8) Others	0	0	0	0	1	0	0	1	0	2
Unknown type	0	3	0	3	0	0	1	10	0	17
9) Unknown	0	7	0	14	7	1	7	34	1	71
Total	12	125	23	183	129	43	125	737	4	1381

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.	11	112	23	155	112	40	78	606	2	1139
1) Total N.D.	0	0	0	1	2	1	2	9	1	16
2) Selective N.D.	1	5	0	13	6	1	37	83	0	146
3) Lymph node excision	0	0	0	0	1	0	0	3	0	4
8) Others	0	1	0	0	1	0	0	1	0	3
Unknown type	0	0	0	0	0	0	0	0	0	0
9) Unknown	0	7	0	14	7	1	8	35	1	73
Total	12	125	23	183	129	43	125	737	4	1381

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Oral Cavity ----- 1381 Cases

Reconstructive Surgery by Subsite

Reconstructive surgery	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(8) Oral cavity, NOS	Total
0) No reconstruction	9	65	11	76	94	34	55	500	1	845
D) Free RA MC flap	0	9	0	23	1	0	20	67	0	120
E) Free ALT flap	0	13	7	14	2	1	7	63	0	107
C) Free FA flap	2	17	0	4	1	2	13	44	0	83
1) Skin graft	0	11	0	8	18	3	5	18	0	63
G) Free fibular OC flap	0	0	2	15	0	0	3	0	0	20
F) Free scapular OC flap	0	1	1	13	0	0	0	0	1	16
5) PM MC flap	0	0	0	3	0	0	7	1	0	11
2) Local skin flap	1	0	0	1	0	0	1	3	0	6
3) Mucosal flap	0	1	1	0	0	0	3	0	0	5
6) Free LD MC flap	0	0	0	1	0	0	1	0	0	2
4) DP flap	0	1	0	0	0	0	0	0	0	1
8)+ Others	0	0	1	8	6	2	2	7	1	27
9) Unknown	0	7	0	17	7	1	8	34	1	75
Total	12	125	23	183	129	43	125	737	4	1381

NOS: not otherwise specified.
 ALT: anterolateral thigh.
 PM: pectoralis major.

RA: rectus abdominis.
 FA: forearm.
 LD: latissimus dorsi.

MC: musclocutaneous.
 OC: osteocutaneous.
 DP: deltopectoral.

Radiotherapy by Subsite

Type of radiotherapy	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(8) Oral cavity, NOS	Total
0) No radiotherapy	10	86	18	131	80	24	96	553	1	999
1) X-ray (and/or electron beam)	2	29	4	35	39	16	19	129	2	275
3) B.T.	0	3	0	2	0	0	1	12	0	18
4) X-ray + Particle beam	0	0	0	0	0	1	0	3	0	4
2) Particle beam	0	0	0	0	1	1	0	1	0	3
5) X-ray + B.T.	0	0	0	0	1	0	1	0	0	2
8) Others	0	0	0	1	0	0	0	0	0	1
Unknown type	0	0	1	0	1	0	1	5	0	8
9) Unknown	0	7	0	14	7	1	7	34	1	71
Total	12	125	23	183	129	43	125	737	4	1381

NOS: not otherwise specified.

B.T.: brachytherapy.

Carcinoma of the Oral Cavity ----- 1381 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	(8) Oral cavity, NOS	Total
0) No chemotherapy	11	88	16	116	81	29	87	546	1	975
1) I.V.	0	5	3	18	16	6	15	67	2	132
3) Oral	1	10	2	25	9	4	9	42	0	102
2) I.A.	0	8	1	2	13	1	0	27	0	52
5) I.V.+Oral	0	4	0	5	1	0	4	7	0	21
6) I.A.+Oral	0	3	0	1	0	1	0	4	0	9
4) I.V.+I.A.	0	0	0	0	0	1	0	4	0	5
7) I.V.+I.A.+Oral	0	0	0	0	0	0	1	3	0	4
Unknown route	0	0	1	2	2	0	2	3	0	10
9) Unknown	0	7	0	14	7	1	7	34	1	71
Total	12	125	23	183	129	43	125	737	4	1381

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Larynx (2012)

670 Cases

Carcinoma of the Larynx ----- 670 Cases

Subsite

Subsite	Number of patients (%)	
Glottis	442	(66.0)
Supraglottis	202	(30.1)
Subglottis	14	(2.1)
Larynx, NOS	12	(1.8)
Total	670	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	2	0	2
40 - 49	13	1	14
50 - 59	74	8	82
60 - 69	225	18	243
70 - 79	229	13	242
80 - 89	77	5	82
90 - 100	5	0	5
Total	625	45	670

Carcinoma of the Larynx ----- 670 Cases

Histological Distribution by Subsite

Histologic type	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Adenoid cystic ca.	0	0	1	0	1
Adenosquamous ca.	1	0	0	0	1
Basaloid S.C.C.	1	2	0	0	3
Carcinoma, NOS	0	1	0	0	1
Carcinosarcoma, NOS	1	0	0	0	1
Large cell carcinoma, NOS	0	1	0	0	1
Mucoepidermoid ca.	1	0	0	0	1
Neuroendocrine carcinoma, NOS	2	0	0	0	2
Papillary S.C.C.	0	1	0	0	1
Small cell ca., NOS	0	1	0	0	1
Spindle cell ca., NOS	3	0	1	0	4
S.C.C. in situ with quest. stromal invasion	3	0	0	0	3
S.C.C. in situ, NOS	9	1	0	0	10
S.C.C. kerat., NOS	20	10	1	0	31
S.C.C. microinvasive	2	0	0	0	2
S.C.C., NOS	397	184	11	12	604
S.C.C., small cell, nonkerat.	0	1	0	0	1
Verrucous Ca.	2	0	0	0	2
Total	442	202	14	12	670

NOS: not otherwise specified.
kerat.: keratinizing.

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

S.C.C.: squamous cell carcinoma.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	15	0	0	0	0	0	0	0	0	15
T1	25	2	0	1	1	1	0	0	0	30
T1a	147	0	0	0	0	0	0	0	1	148
T1b	59	0	0	0	0	0	0	0	0	59
T2	116 *	6	0	3	19	12	4	0	0	160
T3	118	21 *	0	0	19 **	13	0	0	1 *	172
T4	1	0	0	0	2	1	0	0	0	4
T4a	42	8	0	0	14 *	8	2	0	0	74
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	1	0	1
T-	4	0	0	0	0	0	0	0	3	7
Total	527	37	0	4	55	35	6	1	5	670

M1: 6 cases.

Each * signifies one M1 case.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Larynx ----- 670 Cases

Glottic 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	14	0	0	0	0	0	0	0	0	14
T1	9	0	0	0	0	0	0	0	0	9
T1a	146	0	0	0	0	0	0	0	1	147
T1b	59	0	0	0	0	0	0	0	0	59
T2	83 *	0	0	0	0	2	0	0	0	85
T3	78	6 *	0	0	4	1	0	0	0	89
T4	1	0	0	0	1	1	0	0	0	3
T4a	21	2	0	0	5	3	0	0	0	31
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	3	0	0	0	0	0	0	2	0	5
Total	414	8	0	0	10	7	0	2	1	442

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

T-: without reported T classification. N-: without reported N classification.

Supraglottic Carcinoma

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	1	0	0	0	0	0	0	0	0	1
T1	14	2	0	1	1	1	0	0	0	19
T2	29	6	0	3	19	10	4	0	0	71
T3	37	14	0	0	14 **	11	0	0	1 *	77
T4	0	0	0	0	1	0	0	0	0	1
T4a	13	5	0	0	8 *	5	2	0	0	33
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	94	27	0	4	43	27	6	0	1	202

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

T-: without reported T classification. N-: without reported N classification.

Carcinoma of the Larynx ----- 670 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
T1	2	0	0	0	0	0	0	0	0	2
T2	3	0	0	0	0	0	0	0	0	3
T3	1	0	0	0	0	0	0	0	0	1
T4	0	0	0	0	0	0	0	0	0	0
T4a	5	0	0	0	1	0	0	0	0	6
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	1	0	1
T-	1	0	0	0	0	0	0	0	0	1
Total	12	0	0	0	1	0	0	1	0	14

M1: 0 case.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Larynx, NOS

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
T1	1	0	0	0	0	0	0	0	0	1
T2	1	0	0	0	0	0	0	0	0	1
T3	2	1	0	0	1	1	0	0	0	5
T4	0	0	0	0	0	0	0	0	0	0
T4a	3	1	0	0	0	0	0	0	0	4
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	1	1
Total	7	2	0	0	1	1	0	0	1	12

M1: 0 case.

NOS: not otherwise specified.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Larynx ----- 670 Cases

Glottis

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	6	1	7
50 - 59	52	4	56
60 - 69	138	9	147
70 - 79	164	7	171
80 - 89	52	4	56
90 - 100	4	0	4
Total	417	25	442

Supraglottis

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	7	0	7
50 - 59	19	4	23
60 - 69	76	8	84
70 - 79	61	6	67
80 - 89	19	0	19
90 - 99	1	0	1
Total	184	18	202

Carcinoma of the Larynx ----- 670 Cases

Subglottis

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	0	0	0
50 - 59	2	0	2
60 - 69	5	0	5
70 - 79	2	0	2
80 - 89	4	1	5
90 - 99	0	0	0
Total	13	1	14

Carcinoma of the Larynx, NOS

Age Distribution by Gender

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

NOS: not otherwise specified.

Carcinoma of the Larynx ----- 670 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Surgery					
Without	306	122	5	6	439
With	117	76	8	6	207
Unknown	19	4	1	0	24
Radiotherapy					
Without	102	61	6	8	177
With	321	137	7	4	469
Unknown	19	4	1	0	24
Chemotherapy					
Without	339	102	9	9	459
With	84	96	4	3	187
Unknown	19	4	1	0	24
Total	442	202	14	12	670

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Glottis (C32.0)	Supra- glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
No treatment	5	3	0	2	10
B) Rad. alone	224	38	4	1	267
A) Surg. alone	94	51	4	6	155
F) (Rad.+Chem.)	70	53	1	3	127
AB) Surg.->Rad.	11	7	1	0	19
CF) Chem.->(Rad.+Chem.)	1	18	0	0	19
AF) Surg.->(Rad.+Chem.)	4	8	0	0	12
C) Chem. alone	1	6	0	0	7
FA) (Rad.+Chem.)->Surg.	1	4	1	0	6
BA) Rad.->Surg.	3	2	0	0	5
CB) Chem.->Rad.	3	2	0	0	5
CA) Chem.->Surg.	1	1	1	0	3
FC) (Rad.+Chem.)->Chem.	2	1	0	0	3
Others	3	4	1	0	8
Unknown	19	4	1	0	24
Total	442	202	14	12	670

NOS: not otherwise specified.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Larynx ----- 670 Cases

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	3	190	134	90	18	0	4	439
With	0	10	39	22	78	55	0	3	207
Unknown	0	2	8	4	4	5	1	0	24
Radiotherapy									
Without	0	9	33	16	75	41	0	3	177
With	0	4	196	140	93	32	0	4	469
Unknown	0	2	8	4	4	5	1	0	24
Chemotherapy									
Without	0	13	216	76	99	49	0	6	459
With	0	0	13	80	69	24	0	1	187
Unknown	0	2	8	4	4	5	1	0	24
Total	0	15	237	160	172	78	1	7	670

T-: without reported T classification.

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	2	1	5	2	0	0	10
B) Rad. alone	0	3	175	59	22	5	0	3	267
A) Surg. alone	0	9	31	12	65	35	0	3	155
F) (Rad.+Chem.)	0	0	10	62	48	6	0	1	127
AB) Surg.->Rad.	0	1	8	2	2	6	0	0	19
CF) Chem.->(Rad.+Chem.)	0	0	2	5	10	2	0	0	19
AF) Surg.->(Rad.+Chem.)	0	0	0	4	3	5	0	0	12
C) Chem. alone	0	0	0	3	3	1	0	0	7
FA) (Rad.+Chem.)->Surg.	0	0	0	2	1	3	0	0	6
BA) Rad.->Surg.	0	0	0	1	3	1	0	0	5
CB) Chem.->Rad.	0	0	1	2	1	1	0	0	5
FC) (Rad.+Chem.)->Chem.	0	0	0	2	1	0	0	0	3
CA) Chem.->Surg.	0	0	0	0	1	2	0	0	3
Others	0	0	0	1	3	4	0	0	8
Unknown	0	2	8	4	4	5	1	0	24
Total	0	15	237	160	172	78	1	7	670

T-: without reported T classification.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Larynx ----- 670 Cases

Glottic Carcinoma

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T1a	T1b	T2	T3	T4	TX	T-	Total
Surgery											
Without	0	3	5	122	49	74	44	6	0	3	306
With	0	9	3	22	6	8	43	24	0	2	117
Unknown	0	2	1	3	4	3	2	4	0	0	19
Radiotherapy											
Without	0	8	3	18	5	3	42	21	0	2	102
With	0	4	5	126	50	79	45	9	0	3	321
Unknown	0	2	1	3	4	3	2	4	0	0	19
Chemotherapy											
Without	0	12	8	142	49	45	57	22	0	4	339
With	0	0	0	2	6	37	30	8	0	1	84
Unknown	0	2	1	3	4	3	2	4	0	0	19
Total	0	14	9	147	59	85	89	34	0	5	442

T-: without reported T classification.

Glottic Carcinoma

Sequence of Treatment for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T1a	T1b	T2	T3	T4	TX	T-	Total
No treatment	0	0	1	1	0	0	3	0	0	0	5
B) Rad. alone	0	3	4	119	43	39	13	1	0	2	224
A) Surg. alone	0	8	2	17	5	3	37	20	0	2	94
F) (Rad.+Chem.)	0	0	0	1	6	33	25	4	0	1	70
AB) Surg.->Rad.	0	1	1	5	1	1	1	1	0	0	11
AF) Surg.->(Rad.+Chem.)	0	0	0	0	0	1	2	1	0	0	4
BA) Rad.->Surg.	0	0	0	0	0	1	2	0	0	0	3
CB) Chem.->Rad.	0	0	0	1	0	1	1	0	0	0	3
FC) (Rad.+Chem.)->Chem.	0	0	0	0	0	1	1	0	0	0	2
Others	0	0	0	0	0	2	2	3	0	0	7
Unknown	0	2	1	3	4	3	2	4	0	0	19
Total	0	14	9	147	59	85	89	34	0	5	442

T-: without reported T classification.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Larynx ----- 670 Cases

Supraglottic Carcinoma

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	0	12	56	44	10	0	0	122
With	0	1	7	14	31	23	0	0	76
Unknown	0	0	0	1	2	1	0	0	4
Radiotherapy									
Without	0	1	6	13	28	13	0	0	61
With	0	0	13	57	47	20	0	0	137
Unknown	0	0	0	1	2	1	0	0	4
Chemotherapy									
Without	0	1	15	28	37	21	0	0	102
With	0	0	4	42	38	12	0	0	96
Unknown	0	0	0	1	2	1	0	0	4
Total	0	1	19	71	77	34	0	0	202

T-: without reported T classification.

Supraglottic Carcinoma

Sequence of Treatment for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	1	1	1	0	0	3
F) (Rad.+Chem.)	0	0	2	28	22	1	0	0	53
A) Surg. alone	0	1	6	9	24	11	0	0	51
B) Rad. alone	0	0	8	17	9	4	0	0	38
CF) Chem.->(Rad.+Chem.)	0	0	2	5	10	1	0	0	18
AF) Surg.->(Rad.+Chem.)	0	0	0	3	1	4	0	0	8
AB) Surg.->Rad.	0	0	1	1	1	4	0	0	7
C) Chem. alone	0	0	0	3	2	1	0	0	6
FA) (Rad.+Chem.)->Surg.	0	0	0	1	1	2	0	0	4
BA) Rad.->Surg.	0	0	0	0	1	1	0	0	2
CB) Chem.->Rad.	0	0	0	1	0	1	0	0	2
Others	0	0	0	1	3	2	0	0	6
Unknown	0	0	0	1	2	1	0	0	4
Total	0	1	19	71	77	34	0	0	202

T-: without reported T classification.

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Larynx ----- 670 Cases

Subglottic Carcinoma

Treatment Method for the Primary Lesion by T Classification

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

T-: without reported T classification.

Subglottic Carcinoma

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	0	0	0	0	0	0
A) Surg. alone	0	0	1	0	1	2	0	0	4
B) Rad. alone	0	0	0	3	0	0	0	1	4
Others	0	0	1	0	0	4	0	0	5
Unknown	0	0	0	0	0	0	1	0	1
Total	0	0	2	3	1	6	1	1	14

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Larynx ----- 670 Cases

Carcinoma of the Larynx, NOS

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	0	1	1	2	2	0	0	6
With	0	0	0	0	3	2	0	1	6
Unknown	0	0	0	0	0	0	0	0	0
Radiotherapy									
Without	0	0	0	0	4	3	0	1	8
With	0	0	1	1	1	1	0	0	4
Unknown	0	0	0	0	0	0	0	0	0
Chemotherapy									
Without	0	0	1	0	4	3	0	1	9
With	0	0	0	1	1	1	0	0	3
Unknown	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	5	4	0	1	12

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Larynx, NOS

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	0	1	1	0	0	2
A) Surg. alone	0	0	0	0	3	2	0	1	6
F) (Rad.+Chem.)	0	0	0	1	1	1	0	0	3
B) Rad. alone	0	0	1	0	0	0	0	0	1
Total	0	0	1	1	5	4	0	1	12

NOS: not otherwise specified.

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Larynx ----- 670 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method		Glottis (C32.0)	Supra- glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
X0)	No surgery	305	123	5	6	439
G5)	Total laryngectomy	62	53	8	6	129
G2)	Transoral resection	31	7	0	0	38
G1)	Endoscopic resection	12	0	0	0	12
G3)	Partial laryngectomy	3	6	0	0	9
G4)	Subtotal laryngectomy	3	1	0	0	4
F5)	Total pharyngolaryngectomy	1	3	0	0	4
F6) G9)+	Others	2	3	0	0	5
	Unknown method	4	2	0	0	6
	Unknown	19	4	1	0	24
Total		442	202	14	12	670

NOS: not otherwise specified

Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	3	190	134	91	17	0	4	439
G5)	Total laryngectomy	0	0	2	8	70	48	0	1	129
G2)	Transoral resection	0	4	27	5	1	0	0	1	38
G1)	Endoscopic resection	0	6	5	1	0	0	0	0	12
G3)	Partial laryngectomy	0	0	4	3	2	0	0	0	9
G4)	Subtotal laryngectomy	0	0	0	1	2	0	0	1	4
F5)	Total pharyngolaryngectomy	0	0	0	1	0	3	0	0	4
F6)G9)+	Others	0	0	1	2	0	2	0	0	5
	Unknown method	0	0	0	1	2	3	0	0	6
	Unknown	0	2	8	4	4	5	1	0	24
Total		0	15	237	160	172	78	1	7	670

T-: without reported T classification.

Carcinoma of the Larynx ----- 670 Cases

Glottic Carcinoma

Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	3	176	74	44	5	0	3	305
G5)	Total laryngectomy	0	0	1	1	40	20	0	0	62
G2)	Transoral resection	0	3	22	4	1	0	0	1	31
G1)	Endoscopic resection	0	6	5	1	0	0	0	0	12
G3)	Partial laryngectomy	0	0	2	1	0	0	0	0	3
G4)	Subtotal laryngectomy	0	0	0	1	1	0	0	1	3
G9)	Laryngectomy, other type	0	0	1	0	0	1	0	0	2
F5)	Total pharyngolaryngectomy	0	0	0	0	0	1	0	0	1
	Unknown method	0	0	0	0	1	3	0	0	4
	Unknown	0	2	8	3	2	4	0	0	19
Total		0	14	215	85	89	34	0	5	442

T-: without reported T classification.

Supraglottic Carcinoma

Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	0	12	56	45	10	0	0	123
G5)	Total laryngectomy	0	0	0	7	26	20	0	0	53
G2)	Transoral resection	0	1	5	1	0	0	0	0	7
G3)	Partial laryngectomy	0	0	2	2	2	0	0	0	6
F5)	Total pharyngolaryngectomy	0	0	0	1	0	2	0	0	3
F6)+	Others	0	0	0	2	1	1	0	0	4
	Unknown method	0	0	0	1	1	0	0	0	2
	Unknown	0	0	0	1	2	1	0	0	4
Total		0	1	19	71	77	34	0	0	202

T-: without reported T classification.

Carcinoma of the Larynx ----- 670 Cases

Subglottic Carcinoma

Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	0	1	3	0	0	0	1	5
G5)	Total laryngectomy	0	0	1	0	1	6	0	0	8
	Unknown method	0	0	0	0	0	0	1	0	1
Total		0	0	2	3	1	6	1	1	14

T-: without reported T classification.

Carcinoma of the Larynx, NOS

Surgical Method for the Primary Lesion by T Classification

Surgical method		T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0)	No surgery	0	0	1	1	2	2	0	0	6
G5)	Total laryngectomy	0	0	0	0	3	2	0	1	6
Total		0	0	2	0	1	9	0	1	12

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Larynx ----- 670 Cases

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Glottis (C32.0)	Supra- glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Surgery					
Without	373	133	7	8	521
With	47	65	6	4	122
Unknown	22	4	1	0	27
Radiotherapy					
Without	378	107	11	11	507
With	42	91	2	1	136
Unknown	22	4	1	0	27
Chemotherapy					
Without	386	124	10	11	531
With	34	74	3	1	112
Unknown	22	4	1	0	27
Total	442	202	14	12	670

NOS: not otherwise specified.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Glottis (C32.0)	Supra- glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No N.D.	373	129	7	8	517
1) Total N.D.	3	14	3	1	21
2) Selective N.D.	41	51	3	3	98
9) Unknown type	6	4	0	0	10
Unknown	19	4	1	0	24
Total	442	202	14	12	670

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Larynx ----- 670 Cases

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Glottis (C32.0)	Supra- glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No N.D.	392	157	10	9	568
1) Total N.D.	2	5	1	1	9
2) Selective N.D.	23	31	2	2	58
9) Unknown type	5	5	0	0	10
Unknown	20	4	1	0	25
Total	442	202	14	12	670

NOS: not otherwise specified.

N.D.: neck dissection.

Reconstructive Surgery for the Primary Lesion by Subsite

Reconstructive surgery	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No reconstruction	417	183	12	12	624
B) Free jejunal flap	2	6	0	0	8
C) Free FA flap	0	4	1	0	5
5) PM MC flap	1	3	0	0	4
4) DP flap	2	1	0	0	3
2) Local skin flap	1	0	0	0	1
D) Free ALT flap	0	1	0	0	1
Unknown	19	4	1		24
Total	442	202	14	12	670

NOS: not otherwise specified.

FA: forearm.

PM: pectoralis major.

MC: musculocutaneous.

DP: deltopectoral.

ALT: anterolateral thigh.

Carcinoma of the Larynx ----- 670 Cases

Radiotherapy by Subsite

Type of radiotherapy	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No radiotherapy	103	59	6	8	176
1) X-ray (and/or electron beam)	319	138	6	4	467
2) Particle beam	0	1	0	0	1
Unknown type	0	1	1	0	2
9) Unknown	19	4	1	0	24
Total	441	203	14	12	670

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No chemotherapy	335	99	9	9	452
1) I.V.	55	81	2	2	140
3) Oral	24	10	2	1	37
2) I.A.	5	4	0	0	9
5) I.V.+Oral	1	3	0	0	4
4) I.A.+Oral	1	0	0	0	1
Unknown route	2	1	0	0	3
9) Unknown	19	4	1	0	24
Total	442	202	14	12	670

NOS: not otherwise specified.

I.V.: Intravenous. I.A.: intraarterial.

Hypopharynx (2012)

778 Cases

Carcinoma of the Hypopharynx ----- 778 Cases

Subsite

Subsite	Number of patients (%)	
Postcricoid	75	(9.7)
Pyramidal sinus	558	(71.7)
Posterior wall	95	(12.2)
Hypopharynx, NOS	50	(6.4)
Total	778	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	2	0	2
40 - 49	22	4	26
50 - 59	96	11	107
60 - 69	299	20	319
70 - 79	237	24	261
80 - 89	56	5	61
90 -	2	0	2
Total	714	64	778

Carcinoma of the Hypopharynx ----- 778 Cases

Postcricoid

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	1	1	2
50 - 59	7	2	9
60 - 69	26	3	29
70 - 79	21	5	26
80 - 89	6	2	8
90 - 99	0	0	0
Total	62	13	75

Pyriform Sinus

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	16	2	18
50 - 59	79	5	84
60 - 69	220	10	230
70 - 79	176	12	188
80 - 89	34	2	36
90 - 99	2	0	2
Total	527	31	558

Carcinoma of the Hypopharynx ----- 778 Cases

Posterior Wall

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	4	1	5
50 - 59	5	4	9
60 - 69	35	3	38
70 - 79	30	4	34
80 - 89	7	1	8
90 - 99	0	0	0
Total	82	13	95

Hypopharynx, NOS

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	5	0	5
60 - 69	18	4	22
70 - 79	10	3	13
80 - 89	9	0	9
90 - 99	0	0	0
Total	43	7	50

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 778 Cases

Histological Distribution by Subsite

Histologic type	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypophar- ynx, NOS (C32.9)	Total
Adenosquamous ca.	0	1	0	0	1
Basaloid S.C.C.	1	3	0	0	4
Carcinoma, NOS	0	1	0	0	1
Ca., undiff., NOS	0	1	0	0	1
Neuroendocrine carcinoma, NOS	0	1	0	0	1
Rhabdomyosarcoma	0	1	0	0	1
Small cell ca., NOS	0	1	0	0	1
Spindle cell ca., NOS	0	1	0	0	1
S.C.C. in situ, NOS	5	22	3	3	33
S.C.C. kerat., NOS	2	33	3	1	39
S.C.C. large cell, nonkerat.	0	1	0	0	1
S.C.C. microinvasive	2	9	4	0	15
S.C.C., NOS	65	481	85	46	677
S.C.C. small cell, nonkerat.	0	1	0	0	1
S.C.C. spindle cell	1	0	0	0	1
Total	76	557	95	50	778

NOS: not otherwise specified.

S.C.C.: squamous cell carcinoma.

nonkerat.: nonkeratinizing.

ca., Ca.: carcinoma.

kerat.: keratinizing.

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	34	0	0	0	0	0	0	0	0	34
T1	84	7	0	2	15	2	2	0	0	112
T2	103	32 ⁽¹⁾	0	5	77 ⁽²⁾	23 ⁽¹⁾	9	0	2	251
T3	38	23	0	6 ⁽¹⁾	46 ⁽³⁾	24 ⁽¹⁾	9	0	1	147
T4	1	4	3 ⁽¹⁾	2 ⁽¹⁾	0	2	1	0	0	13
T4a	38	23	0	4	73 ⁽⁶⁾	48 ⁽¹²⁾	12 ⁽³⁾	0	0	198
T4b	2	2	0	0	4 ⁽²⁾	6 ⁽¹⁾	2 ⁽¹⁾	0	0	16
TX	0	0	0	0	0	0	0	2 ⁽¹⁾	0	2
T-	2	0	0	0	0	0	0	0	2	4
Total	303	91	3	19	215	105	35	2	5	778

M1: 35 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Hypopharynx ——— 778 Cases

Postcricoid
T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
Tis	2	0	0	0	0	0	0	0	0	2
T1	6	2	0	0	2	0	0	0	0	10
T2	10	4	0	0	6	8 *	0	0	0	28
T3	4	3	0	0	1	7	0	0	0	15
T4	0	0	2 *	0	0	0	0	0	0	2
T4a	5	1	0	0	6	6 *	0	0	0	18
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	27	10	2	0	15	21	0	0	0	75

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

T-: without reported T classification.

N-: without reported N classification.

Pyriform Sinus

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	23	0	0	0	0	0	0	0	0	23
T1	61	5	0	2	12	1	2	0	0	83
T2	73	22 ⁽¹⁾	0	4	59 ⁽²⁾	11	8	0	2	179
T3	25	15	0	5 ⁽¹⁾	41 ⁽²⁾	11 ⁽¹⁾	9	0	1	107
T4	0	3	1	1 ⁽¹⁾	0	1	1	0	0	7
T4a	25	19	0	4	60 ⁽⁶⁾	24 ⁽⁶⁾	11 ⁽¹⁾	0	0	143
T4b	2	2	0	0	4 ⁽²⁾	2 ⁽¹⁾	1	0	0	11
TX	0	0	0	0	0	0	0	0	0	0
T-	2	0	0	0	0	0	0	0	2	4
Total	212	66	1	16	176	50	32	0	5	558

M1: 24 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Hypopharynx ----- 778 Cases

Posterior Wall

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
Tis	2	0	0	0	0	0	0	0	0	2
T1	12	0	0	0	1	1	0	0	0	14
T2	17	4	0	1	8	3	1	0	0	34
T3	6	4	0	1	1	6	0	0	0	18
T4	1	0	0	1	0	1	0	0	0	3
T4a	7	2	0	0	5	6 **	1	0	0	21
T4b	0	0	0	0	0	3	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	45	10	0	3	15	20	2	0	0	95

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

T-: without reported T classification.

N-: without reported N classification.

Hypopharynx, NOS

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
Tis	7	0	0	0	0	0	0	0	0	7
T1	5	0	0	0	0	0	0	0	0	5
T2	3	2	0	0	4	1	0	0	0	10
T3	3	1	0	0	3 *	0	0	0	0	7
T4	0	1	0	0	0	0	0	0	0	1
T4a	1	1	0	0	2	12 ***	0	0	0	16
T4b	0	0	0	0	0	1 *	1	0	0	2
TX	0	0	0	0	0	0	0	2 *	0	2
T-	0	0	0	0	0	0	0	0	0	0
Total	19	5	0	0	9	14	1	2	0	50

NOS: not otherwise specified.

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

T-: without reported T classification.

N-: without reported N classification.

Carcinoma of the Hypopharynx ——— 778 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					
Without	30	287	38	30	385
With	44	255	54	19	372
Unknown	1	16	3	1	21
Radiotherapy					
Without	34	213	43	23	313
With	40	329	49	26	444
Unknown	1	16	3	1	21
Chemotherapy					
Without	43	263	49	32	387
With	31	279	43	17	370
Unknown	1	16	3	1	21
Total	75	558	95	50	778

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					
Without	36	333	55	39	463
With	38	208	37	10	293
Unknown	1	17	3	1	22
Radiotherapy					
Without	39	262	51	26	378
With	35	279	41	23	378
Unknown	1	17	3	1	22
Chemotherapy					
Without	45	293	54	34	426
With	29	248	38	15	330
Unknown	1	17	3	1	22
Total	75	558	95	50	778

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 778 Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Postcricoid (C13.0)	Pyrimiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
No treatment	2	12	2	5	21
A) Surg. alone	26	166	36	16	244
F) (Rad.+Chem.)	14	132	22	8	176
B) Rad. alone	7	58	4	11	80
CF) Chem.->(Rad.+Chem.)	3	45	4	2	54
AB) Surg.->Rad.	8	26	6	0	40
AF) Surg.->(Rad.+Chem.)	3	28	1	3	35
C) Chem. alone	2	16	2	2	22
CA) Chem.->Surg.	2	12	2	0	16
CB) Chem.->Rad.	1	13	2	0	16
FC) (Rad.+Chem.)->Chem.	1	7	2	0	10
CAB) Chem.->Surg.->Rad.	2	4	2	0	8
CAF) Chem.->Surg.->(Rad.+Chem.)	0	5	3	0	8
AC) Surg.->Chem.	2	5	0	0	7
FA) (Rad.+Chem.)->Surg.	1	4	1	0	6
CAC) Chem.->Surg.->Chem.	0	1	1	0	2
Others	0	8	2	2	12
Unknown	1	16	3	1	21
Total	75	558	95	50	778

NOS: not otherwise specified.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Rad.: radiotherapy.

Chem.: chemotherapy.

Carcinoma of the Hypopharynx ----- 778 Cases

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	5	36	171	78	94	1	0	385
With	1	29	75	78	63	123	0	3	372
Unknown	0	0	1	2	6	10	1	1	21
Radiotherapy									
Without	1	31	71	67	49	90	1	3	313
With	0	3	40	182	92	127	0	0	444
Unknown	0	0	1	2	6	10	1	1	21
Chemotherapy									
Without	1	32	84	113	53	100	1	3	387
With	0	2	27	136	88	117	0	0	370
Unknown	0	0	1	2	6	10	1	1	21
Total	1	34	112	251	147	227	2	4	778

T-: without reported T classification.

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of Treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	1	3	1	15	1	0	21
A) Surg. alone	1	29	68	55	34	54	0	3	244
F) (Rad.+Chem.)	0	0	17	90	34	35	0	0	176
B) Rad. alone	0	3	13	46	9	9	0	0	80
CF) Chem.->(Rad.+Chem.)	0	0	4	19	17	14	0	0	54
AB) Surg.->Rad.	0	0	2	8	8	22	0	0	40
AF) Surg.->(Rad.+Chem.)	0	0	2	6	4	23	0	0	35
C) Chem. alone	0	2	1	4	6	9	0	0	22
CA) Chem.->Surg.	0	0	0	2	7	7	0	0	16
CB) Chem.->Rad.	0	0	0	3	8	5	0	0	16
FC) (Rad.+Chem.)->Chem.	0	0	0	4	2	4	0	0	10
CAB) Chem.->Surg.->Rad.	0	0	0	0	3	5	0	0	8
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	0	3	2	3	0	0	8
AC) Surg.->Chem.	0	0	0	2	1	4	0	0	7
FA) (Rad.+Chem.)->Surg.	0	0	1	1	1	3	0	0	6
CAC) Chem.->Surg.->Chem.	0	0	1	1	0	0	0	0	2
Others	0	0	1	2	4	5	0	0	12
Unknown	0	0	1	2	6	10	1	1	21
Total	1	34	112	251	147	227	2	4	778

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 778 Cases

Postcricoid

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	0	5	18	3	4	0	0	30
With	0	2	5	10	11	16	0	0	44
Unknown	0	0	0	0	1	0	0	0	1
Radiotherapy									
Without	0	2	6	7	6	13	0	0	34
With	0	0	4	21	8	7	0	0	40
Unknown	0	0	0	0	1	0	0	0	1
Chemotherapy									
Without	0	2	7	12	8	14	0	0	43
With	0	0	3	16	6	6	0	0	31
Unknown	0	0	0	0	1	0	0	0	1
Total	0	2	10	28	15	20	0	0	75

T-: without reported T classification.

Postcricoid

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	1	0	1	0	0	2
A) Surg. alone	0	2	5	5	5	9	0	0	26
F) (Rad.+Chem.)	0	0	2	9	2	1	0	0	14
AB) Surg.->Rad.	0	0	0	2	3	3	0	0	8
B) Rad. alone	0	0	2	4	0	1	0	0	7
CF) Chem.->(Rad.+Chem.)	0	0	0	2	1	0	0	0	3
AF) Surg.->(Rad.+Chem.)	0	0	0	1	0	2	0	0	3
AC) Surg.->Chem.	0	0	0	1	0	1	0	0	2
C) Chem. Alone	0	0	1	0	0	1	0	0	2
CA) Chem.->Surg.	0	0	0	0	1	1	0	0	2
CAB) Chem.->Surg.->Rad.	0	0	0	0	2	0	0	0	2
Others	0	0	0	3	0	0	0	0	3
Unknown	0	0	0	0	1	0	0	0	1
Total	0	2	10	28	15	20	0	0	75

T-: without reported T classification.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 778 Cases

Pyriform Sinus

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	4	27	130	61	65	0	0	287
With	1	19	55	48	42	87	0	3	255
Unknown	0	0	1	1	4	9	0	1	16
Radiotherapy									
Without	1	21	51	42	33	62	0	3	213
With	0	2	31	136	70	90	0	0	329
Unknown	0	0	1	1	4	9	0	1	16
Chemotherapy									
Without	1	21	62	79	34	63	0	3	263
With	0	2	20	99	69	89	0	0	279
Unknown	0	0	1	1	4	9	0	1	16
Total	1	23	83	179	107	161	0	4	558

T-: without reported T classification.

Pyriform Sinus

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	1	1	1	9	0	0	12
A) Surg. alone	1	19	49	34	23	37	0	3	166
F) (Rad.+Chem)	0	0	14	65	26	27	0	0	132
B) Rad. alone	0	2	10	38	5	3	0	0	58
CF) Chem.->(Rad.+Chem.)	0	0	2	16	14	13	0	0	45
AF) Surg.->(Rad.+Chem.)	0	0	1	5	4	18	0	0	28
AB) Surg.->Rad.	0	0	2	5	5	14	0	0	26
C) Chem. alone	0	2	0	4	4	6	0	0	16
CB) Chem.->Rad.	0	0	0	2	8	3	0	0	13
CA) Chem.->Surg.	0	0	0	2	4	6	0	0	12
FC) (Rad.+Chem)->Chem.	0	0	0	2	2	3	0	0	7
AC) Surg.->Chem.	0	0	0	1	1	3	0	0	5
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	0	1	1	3	0	0	5
CAB) Chem.->Surg.->Rad.	0	0	0	0	1	3	0	0	4
FA) (Rad.+Chem.)->Surg.	0	0	1	0	1	2	0	0	4
Others	0	0	2	2	3	2	0	0	9
Unknown	0	0	1	1	4	9	0	1	16
Total	1	23	83	179	107	161	0	4	558

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 778 Cases

Posterior Wall

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	0	3	14	10	11	0	0	38
With	0	2	11	19	7	15	0	0	54
Unknown	0	0	0	1	1	1	0	0	3
Radiotherapy									
Without	0	2	11	17	7	6	0	0	43
With	0	0	3	16	10	20	0	0	49
Unknown	0	0	0	1	1	1	0	0	3
Chemotherapy									
Without	0	2	12	18	4	13	0	0	49
With	0	0	2	15	13	13	0	0	43
Unknown	0	0	0	1	1	1	0	0	3
Total	0	2	14	34	18	27	0	0	95

T-: without reported T classification.

Posterior Wall

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	1	0	1	0	0	2
A) Surg. alone	0	2	11	15	3	5	0	0	36
F) (Rad.+Chem.)	0	0	1	10	6	5	0	0	22
AB) Surg.->Rad.	0	0	0	1	0	5	0	0	6
B) Rad. alone	0	0	1	1	0	2	0	0	4
CF) Chem.->(Rad.+Chem.)	0	0	1	1	2	0	0	0	4
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	0	2	1	0	0	0	3
C) Chem. Alone	0	0	0	0	2	0	0	0	2
CA) Chem.->Surg.	0	0	0	0	2	0	0	0	2
CAB) Chem.->Surg.->Rad.	0	0	0	0	0	2	0	0	2
CB) Chem.->Rad.	0	0	0	0	0	2	0	0	2
FC) (Rad. +Chem.)->Chem.	0	0	0	1	0	1	0	0	2
Others	0	0	0	1	1	3	0	0	5
Unknown	0	0	0	1	1	1	0	0	3
Total	0	2	14	34	18	27	0	0	95

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 778 Cases

Hypopharynx, NOS

Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
Surgery									
Without	0	1	1	9	4	14	1	0	30
With	0	6	4	1	3	5	0	0	19
Unknown	0	0	0	0	0	0	1	0	1
Radiotherapy									
Without	0	6	3	1	3	9	1	0	23
With	0	1	2	9	4	10	0	0	26
Unknown	0	0	0	0	0	0	1	0	1
Chemotherapy									
Without	0	7	3	4	7	10	1	0	32
With	0	0	2	6	0	9	0	0	17
Unknown	0	0	0	0	0	0	1	0	1
Total	0	7	5	10	7	19	2	0	50

NOS: not otherwise specified.

T-: without reported T classification.

Hypopharynx, NOS

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	0	0	4	1	0	5
A) Surg. alone	0	6	3	1	3	3	0	0	16
B) Rad. alone	0	1	0	3	4	3	0	0	11
F) (Rad.+Chem.)	0	0	0	6	0	2	0	0	8
CF) Chem.->(Rad.+Chem.)	0	0	1	0	0	1	0	0	2
C) Chem. alone	0	0	0	0	0	2	0	0	2
AF) Surg.->(Rad.+Chem.)	0	0	1	0	0	2	0	0	3
Others	0	0	0	0	0	2	0	0	2
Unknown	0	0	0	0	0	0	1	0	1
Total	0	7	5	10	7	19	2	0	50

NOS: not otherwise defined.

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Hypopharynx ----- 778 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method	Posterioricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypophar- ynx, NOS (C13.9)	Total
X0) No surgery	30	287	38	30	385
F5) Total pharyngolaryngectomy	22	84	24	3	133
F1) Endoscopic resection	5	59	10	9	83
F6) Total pharyngolaryngo- esophagectomy	8	43	2	4	57
F3) Partial hypopharyngectomy	2	28	3	0	33
F2) Transoral resection	3	19	9	0	31
F7) Hypopharyngectomy +Cervical esophagectomy	0	8	1	3	12
F4) Total laryngectomy +Partial pharyngectomy	3	4	1	0	8
F9)+ Others	1	4	3	0	8
Unknown method	0	6	1	0	7
Unknown	1	16	3	1	21
Total	75	558	95	50	778

NOS: not otherwise specified

Surgical Method for the Primary Lesion by T Classification

Surgical method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0) No surgery	0	5	36	171	78	94	1	0	385
F5) Total pharyngolaryngectomy	0	0	1	25	36	71	0	0	133
F1) Endoscopic resection	1	26	46	8	1	0	0	1	83
F6) Total pharyngolaryngo- esophagectomy	0	0	2	5	11	39	0	0	57
F3) Partial hypopharyngectomy	0	0	5	19	5	3	0	1	33
F2) Transoral resection	0	2	19	9	1	0	0	0	31
F7) Hypopharyngectomy +Cervical esophagectomy	0	0	1	2	4	5	0	0	12
F4) Total laryngectomy +Partial pharyngectomy	0	0	1	3	3	1	0	0	8
F9)+ Others	0	0	0	4	2	1	0	1	8
Unknown method	0	1	0	3	0	3	0	0	7
Unknown	0	0	1	2	6	10	1	1	21
Total	1	34	112	251	147	227	2	4	778

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 778 Cases

Postcricoid

Surgical Method for the Primary Lesion by T Classification

Surgical method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0) No surgery	0	0	5	18	3	4	0	0	30
F5) Total pharyngolaryngectomy	0	0	0	4	8	10	0	0	22
F6) Total pharyngolaryngo- esophagectomy	0	0	1	0	1	6	0	0	8
F1) Endoscopic resection	0	2	2	1	0	0	0	0	5
F4) Total laryngectomy +Partial pharyngectomy	0	0	0	2	1	0	0	0	3
F2) Transoral resction	0	0	2	1	0	0	0	0	3
F3) Partial hypopharyngectomy	0	0	0	1	1	0	0	0	2
G3) Partial laryngectomy	0	0	0	1	0	0	0	0	1
Unknown	0	0	0	0	1	0	0	0	1
Total	0	2	10	28	15	20	0	0	75

NOS: not otherwise specified.

T-: without reported T classification.

Pyriform sinus

Surgical Method for the Primary Lesion by T Classification

Surgical method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0) No surgery	0	4	27	130	61	65	0		287
F5) Total pharyngolaryngectomy	0	0	1	14	24	45	0	0	84
F1) Endoscopic resection	1	17	34	6	0	0	0	1	59
F6) Total pharyngolaryngo- esophagectomy	0	0	1	4	7	31	0	0	43
F3) Partial pharyngectomy	0	0	5	16	3	3	0	1	28
F2) Transoral resction	0	1	13	4	1	0	0	0	19
F7) Hypopharyngectomy +Cervical esophagectomy	0	0	0	1	3	4	0	0	8
F4) Total laryngectomy +Partial pharyngectomy	0	0	1	0	2	1	0	0	4
Others	0	0	0	1	2	0	0	1	4
Unknown method	0	1	0	2	0	3	0	0	6
Unknown	0	0	1	1	4	9	0	1	16
Total	1	23	83	179	107	161	0	4	558

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 778 Cases

Posterior wall

Surgical Method for the Primary Lesion by T Classification

Surgical method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0) No surgery	0	0	3	14	10	11	0	0	38
F5) Total pharyngolaryngectomy	0	0	0	6	4	14	0	0	24
F1) Endoscopic resection	0	1	7	1	1	0	0	0	10
F2) Transoral resection	0	1	4	4	0	0	0	0	9
F3) Partial pharyngectomy	0	0	0	2	1	0	0	0	3
F6) Total pharyngolaryngo- esophagectomy	0	0	0	1	1	0	0	0	2
F9)+ Others	0	0	0	4	0	1	0	0	5
Unknown method	0	0	0	1	0	0	0	0	1
Unknown	0	0	0	1	1	1	0	0	3
Total	0	2	14	34	18	27	0	0	95

NOS: not otherwise specified.

T-: without reported T classification.

Hypopharynx, NOS

Surgical Method for the Primary Lesion by T Classification

Surgical method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0) No surgery	0	1	1	9	4	14	1	0	30
F1) Endoscopic resection	0	6	3	0	0	0	0	0	9
F6) Total pharyngolaryngo- esophagectomy	0	0	0	0	2	2	0	0	4
F5) Total pharyngolaryngectomy	0	0	0	1	0	2	0	0	3
F7) Pharyngectomy +Cervical esophagectomy			1	0	1	1	0	0	3
Unknown	0	0	0	0	0	0	1	0	1
Total	0	7	5	10	7	19	2	0	50

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 778 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	36	333	55	39	463
1) Total N.D.	6	30	5	2	43
2) Selective N.D.	32	170	31	8	241
3) Lymph node excision	0	0	0	0	0
8) Others	0	1	0	0	1
Unknown type	0	7	1	0	8
9) Unknown	1	17	3	1	22
Total	75	558	95	50	778

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	41	398	59	40	538
1) Total N.D.	3	9	1	1	14
2) Selective N.D.	30	123	31	8	192
3) Lymph node excision	0	0	0	0	0
8) Others	0	0	0	0	0
Unknown type	0	7	1	0	8
9) Unknown	1	21	3	1	26
Total	75	558	95	50	778

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Hypopharynx ----- 778 Cases

Reconstructive Surgery by Subsite

Reconstructive surgery	Postcricoid (C13.0)	Pyramiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No reconstruction	41	372	58	39	510
B) Free jejunal flap	28	126	32	9	195
C) Free FA flap	2	15	0	0	17
E) Free ALT flap	0	7	0	0	7
5) PM MC flap	1	1	0	0	2
7) Gastric pull-up	0	1	0	1	2
2) Local skin lap	0	1	0	0	1
3) Mucosal flap	0	1	0	0	1
4) DP flap	0	1	0	0	1
8) Others	0	2	0	0	2
Unknown	2	32	5	1	40
Total	74	559	95	50	778

NOS: not otherwise specified.

FA: forearm.

MC: musculocutaneous.

ALT: anterolateral thigh.

DP: deltopectoral.

PM: pectoralis major.

Carcinoma of the Hypopharynx ----- 778 Cases

Radiotherapy by Subsite

Type of radiotherapy	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No radiotherapy	34	211	43	23	311
1) X-ray (and/or electron beam)	40	329	48	26	443
Unknown type	0	2	1	0	3
9) Unknown	1	16	3	1	21
Total	75	558	95	50	778

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No chemotherapy	43	262	50	31	386
1) I.V.	24	235	36	18	313
3) Oral	5	28	2	0	35
2) I.A.	0	8	1	0	9
5) I.V. + Oral	1	2	2	0	5
4) I.V.+I.A.	0	2	0	0	2
Unknow route	1	4	1	0	6
9) Unknown	1	17	3	1	22
Total	75	558	95	50	778

NOS: not otherwise specified.

I.V.: intravenous.

I.A: intraarterial.

Oropharynx (2012)

526 Cases

Carcinoma of the Oropharynx ----- 526 Cases

Subsite

Subsite	Number of patients (%)	
Superior wall	52	(9.9)
Lateral wall	288	(54.8)
Posterior wall	38	(7.2)
Anterior wall	122	(23.2)
Oropharynx, NOS	26	(4.9)
Total	526	(100)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	0	0	0
30 - 39	3	6	9
40 - 49	36	8	44
50 - 59	70	15	85
60 - 69	174	31	205
70 - 79	132	9	141
80 - 89	40	1	41
90 - 99	0	0	0
Total	455	71	526

Carcinoma of the Oropharynx ----- 526 Cases

Histological Distribution by Subsite

Histologic type	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Acinic cell carcinoma	1	0	0	0	0	1
Adenoid cystic carcinoma	0	1	0	1	0	2
Basaloid S.C.C.	0	0	0	1	0	1
Carcinoma ex pleomorphic adenoma	1	0	0	0	0	1
Carcinoma, NOS	1	2	0	0	0	3
Ca., undiff., NOS	0	1	0	0	0	1
Clear cell carcinoma, NOS	0	1	0	0	0	1
Lymphoepithelial carcinoma	0	1	0	0	0	1
Malig. Lymphoma, NOS	1	2	0	1	3	7
Malig. Melanoma, NOS	0	1	0	0	0	1
Myoepithelial carcinoma	1	0	0	0	0	1
Mucoepidermoid ca.	0	1	0	2	1	4
Neoplasm, malig.	0	0	0	1	0	1
Salivary duct carcinoma	0	1	0	0	0	1
Small cell ca., NOS	1	1	0	0	0	2
Spindle cell ca., NOS	0	0	0	1	0	1
S.C.C. in situ with quest. stromal invasion	0	1	0	1	0	2
S.C.C. in situ, NOS	2	4	2	1	1	10
S.C.C. kerat., NOS	4	20	0	4	2	30
S.C.C. large cell, nonkerat.	0	2	0	0	0	2
S.C.C. microinvasive	0	3	1	0	0	4
S.C.C., NOS	40	244	35	109	19	447
S.C.C., small cell, nonkerat.	0	2	0	0	0	2
Total	52	288	38	122	26	526

NOS: not otherwise specified.

malig., Malig.: malignant.

kerat.: keratinizing.

S.C.C.: squamous cell carcinoma.

quest.: questionable.

nonkerat.: nonkeratinizing.

ca.: carcinoma.

undiff.: undifferentiated.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
Tis	15	0	0	0	0	0	0	0	0	15
T1	44	3	0	4	10	3	4	0	1	69
T2	79	33	2	13 *	62 **	22	9	0	2 *	222
T3	23	9	0	4	27	16 *	2 **	0	1	82
T4	0	1 *	1	0	0	0	1	0	0	3
T4a	16	18 *	0	2	27	27 ***	4	0	0	94
T4b	3	1	0	1	5	12 ***	2	0	0	24
TX	0	0	0	0	2	0	0	1	0	3
T-	2	0	0	0	1	1	0	0	10	14
Total	182	65	3	24	134	81	22	1	14	526

M1:15 cases. Each * signifies one M1 case.

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

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

Carcinoma of the Oropharynx ----- 526 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
Without	24	189	24	73	18	328
With	27	93	12	49	7	188
Unknown	1	6	2	0	1	10
Radiotherapy						
Without	26	93	14	44	12	189
With	25	189	22	78	13	327
Unknown	1	6	2	0	1	10
Chemotherapy						
Without	35	127	15	63	13	253
With	16	155	21	59	12	263
Unknown	1	6	2	0	1	10
Total	52	288	38	122	26	526

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
Without	46	195	26	75	18	360
With	5	87	10	47	7	156
Unknown	1	6	2	0	1	10
Radiotherapy						
Without	34	114	18	53	12	231
With	17	168	18	69	13	285
Unknown	1	6	2	0	1	10
Chemotherapy						
Without	39	141	17	70	13	280
With	12	141	19	52	12	236
Unknown	1	6	2	0	1	10
Total	52	288	38	122	26	526

NOS: not otherwise specified.

Carcinoma of the Oropharynx ----- 526 Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
No treatment	1	4	3	2	5	15
A) Surg. alone	24	67	8	35	7	141
F) (Rad.+Chem.)	8	70	10	28	7	123
B) Rad. alone	8	39	1	15	1	64
CF) Chem.->(Rad.+Chem.)	5	31	6	13	2	57
AB) Surg.->Rad.	2	15	2	9	0	28
C) Chem. alone	1	7	2	4	0	14
AF) Surg.->(Rad.+Chem.)	0	10	0	3	0	13
CA) Chem.->Surg.	0	10	0	1	0	11
CB) Chem.->Rad.	1	4	0	3	0	8
FA) (Rad.+Chem.)->Surg.	0	6	0	1	0	7
CAB) Chem.->Surg.->Rad.	0	3	1	0	1	5
CAF) Chem.->Surg.->(Rad.+Chem.)	0	4	1	0	0	5
CAC) Chem.->Surg.->Chem.	0	4	0	0	0	4
FC) (Rad.+Chem.)->Chem.	0	3	0	0	0	3
AC) Surg.->Chem.	0	0	1	1	0	2
BA) Rad.->Surg.	0	1	0	1	0	2
D) (Surg.+Rad.)	0	1	1	0	0	2
Others	1	3	0	6	2	12
Unknown	1	6	2	0	1	10
Total	52	288	38	122	26	526

NOS: not otherwise specified.

Rad.: radiotherapy.

Treatment methods in parentheses were given concurrently.

Chem.: chemotherapy.

Surg.: surgery.

Surgical Method for the Primary Lesion by Subsite

Surgical method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
X0) No surgery	24	161	22	69	16	292
E3) Unilateral resection of the lateral wall of the oropharynx	0	82	1	0	1	84
E1) Resection of the base of tongue	0	0	0	27	1	28
E9) Resection of the oropharynx, other type	2	12	4	7	2	27
E8) Resection of the soft palate	16	4	0	0	1	21
E4) Unilateral resection of the lateral wall of the oropharynx and soft	5	11	0	0	1	17
E5) Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	0	9	0	1	0	10
E2) Resection of the base of tongue and epiglottis	0	1	0	6	0	7
E6) Resection of the posterior wall	0	0	5	0	1	6
A4) Hemiglossectomy	0	0	0	3	0	3
A5) Total glosseectomy	0	0	0	3	0	3
Others	4	0	3	4	0	11
Unknown method	0	2	1	2	2	7
Unknown	1	6	2	0	1	10
Total	52	288	38	122	26	526

NOS: not otherwise specified.

Carcinoma of the Oropharynx ——— 526 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	46	194	26	74	18	358
1) Total N.D.	1	23	4	18	2	48
2) Selective N.D.	4	62	5	28	4	103
3) Lymph node excision	0	1	0	0	0	1
Unknown type	0	1	1	2	0	4
9) Unknown	1	7	2	0	2	12
Total	52	288	38	122	26	526

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	50	272	30	103	24	479
1) Total N.D.	0	1	1	5	0	7
2) Selective N.D.	1	8	3	14	0	26
3) Lymph node excision	0	0	1	0	0	1
Unknown type	0	0	1	0	0	1
9) Unknown	1	7	2	0	2	12
Total	52	288	38	122	26	526

NOS: not otherwise specified.

N.D.: neck dissection.

Reconstructive Surgery by Subsite

Reconstructive surgery	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No reconstruction	46	243	31	96	20	436
D) Free RA MC flap	0	16	0	9	2	27
E) Free ALT flap	2	15	0	7	1	25
B) Free jejunal flap	0	2	3	3	0	8
C) Free FA flap	1	3	1	3	0	8
5) PM MC flap	0	0	0	2	0	2
2) Local skin flap	1	1	0	0	0	2
3) Mucosal flap	1	1	0	0	0	2
Others	0	1	0	1	1	3
Unknown	1	6	3	1	2	13
Total	52	288	38	122	26	526

NOS: not otherwise specified.
 ALT: anterolateral thigh.

RA: rectus abdominis.
 FA: forearm.

MC: musculocutaneous.
 PM: pectoralis major.

Carcinoma of the Oropharynx ----- 526 Cases

Radiotherapy by Subsite

Type of radiotherapy	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No radiotherapy	25	91	14	44	12	186
1) X-ray (and/or electron beam)	23	185	22	77	12	319
3) B.T.	2	0	0	0	0	2
8) Others	0	0	0	1	0	1
Unknown type	1	6	0	0	1	8
Unknown	1	6	2	0	1	10
Total	52	288	38	122	26	526

NOS: not otherwise specified.

B.T.: brachytherapy.

Chemotherapy by Subsite

Route of administration	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No chemotherapy	35	126	15	63	13	252
1) I.V.	13	132	22	46	7	220
2) I.A.	1	6	0	4	1	12
3) Oral	1	5	0	5	1	12
6) I.A.+Oral	0	7	0	3	1	11
4) I.V.+I.A.	0	3	0	1	0	4
Unknow route	1	3	0	0	2	6
Unknown	1	6	1	0	1	9
Total	52	288	38	122	26	526

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Nasopharynx (2012)

110 Cases

Carcinoma of the Nasopharynx ----- 110 Cases

Subsite

Subsite	Number of patients (%)	
Posterior-superior wall	50	(45.5)
Lateral wall	43	(39.1)
Inferior wall	1	(0.9)
Nasopharynx, NOS	16	(14.5)
Total	110	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	1	0	1
30 - 39	3	1	4
40 - 49	15	7	22
50 - 59	16	5	21
60 - 69	31	4	35
70 - 79	16	4	20
80 - 89	3	3	6
90 - 99	0	0	0
Total	85	25	110

Carcinoma of the Nasopharynx ----- 110 Cases

Histological Distribution by Subsite

Histologic type	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Adenocarcinoma, NOS	1	0	0	0	1
Adenoid cystic ca.	1	0	0	0	1
Carcinoma, NOS	2	3	0	0	5
Ca., undiff., NOS	4	0	0	0	4
Clear cell carcinoma, NOS	0	1	0	0	1
Lymphoepithelial carcinoma	3	4	0	1	8
Malig. Lymphoma, NOS	0	0	0	1	1
Small cell ca.	0	1	0	0	1
S.C.C. kerat., NOS	2	3	0	0	5
S.C.C. large cell, nonkerat.	5	5	0	2	12
S.C.C., NOS	31	24	1	11	67
S.C.C., small cell, nonkerat.	1	2	0	0	3
S.C.C. spindle cell	0	0	0	1	1
Total	50	43	1	16	110

NOS: not otherwise specified.

Ca., ca.: carcinoma.

undiff.: undifferentiated.

Malig.: malignant.

S.C.C.: squamous cell carcinoma.

kerat. : keratinizing.

nonkerat.: nonkeratinizing.

T and N Status

	N0	N1	N2	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0
T1	5	11 *	10 *	2 **	2	2	0	0	32
T2	3	9	6	1	0	2	0	0	21
T3	4	6 *	6	0	1 *	1	0	0	18
T4	2	16 **	14 *	0	1	3	0	0	36
TX	0	0	0	0	0	0	0	0	0
T-	0	0	1	0	0	1 *	0	1	3
Total	14	42	37	3	4	9	0	1	110

M1: 10 cases. Each * signifies one M1 case.

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

N-: without reported N classification.

Carcinoma of the Nasopharynx ——— 110 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
Without	48	42	0	15	105
With	1	0	1	1	3
Unknown	1	1	0	0	2
Radiotherapy					
Without	3	1	1	3	8
With	46	41	0	13	100
Unknown	1	1	0	0	2
Chemotherapy					
Without	7	6	1	5	19
With	42	36	0	11	89
Unknown	1	1	0	0	2
Total	50	43	1	16	110

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
Without	48	42	1	15	106
With	1	0	0	1	2
Unknown	1	1	0	0	2
Radiotherapy					
Without	2	7	1	4	14
With	47	35	0	12	94
Unknown	1	1	0	0	2
Chemotherapy					
Without	8	8	1	7	24
With	41	34	0	9	84
Unknown	1	1	0	0	2
Total	50	43	1	16	110

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
No treatment	0	0	0	1	1
F) (Rad.+Chem.)	24	21	0	2	47
FC) (Rad.+Chem.)->Chem.	5	6	0	8	19
B) Rad. alone	6	6	0	3	15
CF) Chem.->(Rad.+Chem.)	8	6	0	0	14
C) Chem. alone	2	1	0	1	4
A) Surg. alone	1	0	1	1	3
CB) Chem.->Rad.	2	0	0	0	2
Others	1	2	0	0	3
Unknown	1	1	0	0	2
Total	50	43	1	16	110

NOS: not otherwise specified.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: Surgery.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Nasopharynx ----- 110 Cases

Surgical Method for the Primary Lesion by Subsite

Surgical method	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
X0) No surgery	48	42	0	15	105
E8) Resection of the soft palate	0	0	1	0	1
X9) Others	1	0	0	0	1
Unknown method	0	0	0	1	1
Unknown	1	1	0	0	2
Total	50	43	1	16	110

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstructive surgery	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No reconstruction	49	42	1	16	108
Unknown	1	1	0	0	2
Total	50	43	1	16	110

NOS: not otherwise specified.

Carcinoma of the Nasopharynx ----- 110 Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	48	42	1	15	106
1) Total N.D.	1	0	0	0	1
2) Selective N.D.	0	0	0	0	0
3) Lymph node excision	0	0	0	0	0
8) Others	0	0	0	0	0
9) Unknown	1	1	0	1	3
Total	50	43	1	16	110

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	48	42	1	15	106
1) Total N.D.	0	0	0	0	0
2) Selective N.D.	0	0	0	0	0
3) Lymph node excision	0	0	0	0	0
8) Others	1	0	0	0	1
9) Unknown	1	1	0	1	3
Total	50	43	1	16	110

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Nasopharynx ----- 110 Cases

Radiotherapy by Subsite

Type of radiotherapy	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No radiotherapy	2	1	1	3	7
1) X-ray (and/or electron beam)	45	41	0	13	99
2) Particle beam	1	0	0	0	1
Unknown type	1	0	0	0	1
9) Unknown	1	1	0	0	2
Total	50	43	1	16	110

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No chemotherapy	7	6	1	5	19
1) I.V.	35	29	0	10	74
5) I.V.+Oral	3	6	0	1	10
3) Oral	2	1	0	0	3
Unknown route	2	0	0	0	2
9) Unknown	1	1	0	0	2
Total	50	43	1	16	110

NOS: not otherwise specified.

I.V.: intravenous.

**Nasal Cavity & Paranasal Sinuses
(Excluding the Maxillary Sinus)
(2012)**

131 Cases

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 131 Cases

Subsite

Subsite	Number of patients (%)	
Nasal cavity	57	(43.5)
Ethmoid sinus	35	(26.7)
Frontal sinus	3	(2.3)
Sphenoid sinus	7	(5.4)
Paranasal sinus, NOS	29	(22.1)
Total	131	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	2	1	3
30 - 39	6	1	7
40 - 49	9	2	11
50 - 59	16	7	23
60 - 69	28	11	39
70 - 79	22	15	37
80 - 89	8	3	11
90 - 99	0	0	0
Total	91	40	131

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 131 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
Acinic cell ca.	1	0	0	0	0	1
Adenocarcinoma	3	2	0	0	1	6
Adenoid cystic carcinoma	3	2	0	2	4	11
Basal cell carcinoma	2	0	0	0	0	2
Basoloid cell S.C.C.	1	0	0	0	0	1
Carcinoma, NOS	1	1	0	0	2	4
Ca., undiff., NOS	0	1	0	0	0	1
Malig. Lymphoma, NOS	2	0	0	0	2	4
Malig. Melanoma, NOS	14	3	0	0	10	27
Olfactory neuroblastoma	5	1	0	1	4	11
Papillary S.C.C.	1	1	1	0	2	5
Plasmacytoma, NOS	0	0	0	0	1	1
Rhabdomyosarcoma	0	1	0	0	1	2
Small cell ca., NOS	1	3	0	0	0	4
S.C.C. kerat., NOS	1	0	0	1	0	2
S.C.C. large cell, nonkerat.	0	0	0	1	0	1
S.C.C., microinvasive	1	0	0	0	0	1
S.C.C. small cell, nonkerat.	0	1	0	0	0	1
S.C.C., NOS	21	19	2	2	2	46
Total	57	35	3	7	29	131

NOS: not otherwise specified.
Malig.: malignant.

ca.: carcinoma.
kerat.: keratinizing.

S.C.C.: squamous cell carcinoma.
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	13	0	0	0	0	1	0	0	0	14
T2	14	0	0	1	0	2	0	0	0	17
T3	11	1	0	0	0	1	0	0	0	13
T4	5	1	0	0	0	1	0	0	0	7
T4a	18	3	0	0	0	2	1	0	0	24
T4b	22 *	2 *	0	0	2 *	1	0	0	0	27
TX	1	0	0	0	0	0	0	1	0	2
T-	14	0	0	0	0	0	0	0	13	27
Total	98	7	0	1	2	8	1	1	13	131

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

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

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

Nasal cavity and Paranasal Sinuses ----- 131 Cases

Treatment Method for the Primary Lesion by Subsite

Treatment method	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
Surgery						
Without	32	23	3	5	18	81
With	25	9	0	2	9	45
Unknown	0	3	0	0	2	5
Radiotherapy						
Without	17	4	0	1	4	26
With	39	28	3	6	23	99
Unknown	1	3	0	0	2	6
Chemotherapy						
Without	34	5	0	3	15	57
With	23	27	3	4	12	69
Unknown	0	3	0	0	2	5
Total	57	35	3	7	29	131

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
Surgery						
Without	52	29	3	7	26	117
With	5	3	0	0	2	10
Unknown	0	3	0	0	1	4
Radiotherapy						
Without	48	24	3	7	25	107
With	9	8	0	0	3	20
Unknown	0	3	0	0	1	4
Chemotherapy						
Without	49	25	3	6	24	107
With	8	7	0	1	4	20
Unknown	0	3	0	0	1	4
Total	57	35	3	7	29	131

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Nasal cavity (C30.0)	Ethmoid sinus (C31.1)	Frontal sinus (C31.2)	Sphenoid sinus (C31.3)	Paranasal sinus, NOS (C31.9)	Total
No treatment	4	0	0	0	0	4
F) (Rad.+Chem.)	8	14	2	2	5	31
B) Rad. alone	14	2	0	1	10	27
A) Surg. alone	11	2	0	1	2	16
AB) Surg.->Rad.	5	1	0	1	3	10
CF) Chem.->(Rad.+Chem.)	1	4	0	1	0	6
C) Chem. alone	2	0	1	0	1	4
CB) Chem.->Rad.	1	0	0	1	2	4
FA) (Rad.+Chem.)->Surg.	2	1	0	0	1	4
AF) Surg.->(Rad.+Chem.)	2	0	0	0	1	3
BC) Rad.->Chem.	1	2	0	0	0	3
Others	6	6	0	0	2	14
Unknown	0	3	0	0	2	5
Total	57	35	3	7	29	131

NOS: not otherwise specified.

Rad.: radiotherapy.

Treatment methods in parentheses were given concurrently.

Surg.: surgery.

Chem.: chemotherapy.

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 131 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
X0) No surgery	32	23	3	5	18	81
D4) Skull base surgery	3	2	0	0	1	6
D9) Maxillectomy, other type	2	1	0	0	1	4
D1) Partial maxillectomy	4	0	0	0	0	4
D3) Extended total maxillectomy	0	2	0	1	0	3
X9)+ Others	16	4	0	1	6	27
Unknown	0	3	0	0	3	6
Total	57	35	3	7	29	131

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	45	28	3	6	26	108
D) Free RA MC flap	0	3	0	1	1	5
2) Local skin flap	3	0	0	0	0	3
C) Free FA flap	2	0	0	0	0	2
3) Local mucosal flap	2	0	0	0	0	2
1) Skin graft	1	0	0	0	0	1
E) Free ALT flap	1	0	0	0	0	1
8) Others	3	1	0	0	0	4
Unknown	0	3	0	0	2	5
Total	57	35	3	7	29	131

NOS: not otherwise specified.
FA: forearm.

RA: rectus abdominis.
ALT: anterolateral thigh.

MC: musclocutaneous.

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.	50	29	3	7	26	115
1) Total N.D.	2	0	0	0	1	3
2) Selective N.D.	5	2	0	0	1	8
3) Lymph node excision	0	0	0	0	0	0
Unknown type	0	1	0	0	0	1
9) Unknown	0	3	0	0	1	4
Total	57	35	3	7	29	131

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.	55	32	3	7	27	124
1) Total N.D.	0	0	0	0	0	0
2) Selective N.D.	2	0	0	0	1	3
3) Lymph node excision	0	0	0	0	0	0
9) Unknown	0	3	0	0	1	4
Total	57	35	3	7	29	131

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 131 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	17	4	0	1	4	26
1) X-ray (and/or electron beam)	27	24	3	4	18	76
2) Particle beam	12	4	0	1	5	22
8) Others	0	0	0	1	0	1
9) Unknown	1	3	0	0	2	6
Total	57	35	3	7	29	131

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	34	5	0	3	15	57
1) I.V.	17	24	3	3	11	58
2) I.A.	2	1	0	0	1	4
5) I.V.+Oral	1	1	0	1	0	3
3) Oral	1	1	0	0	0	2
Unknown route	2	0	0	0	0	2
9) Unknown	0	3	0	0	2	5
Total	57	35	3	7	29	131

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Maxillary Sinus (2012)

124 Cases

Carcinoma of the Maxillary Sinus ----- 124 Cases

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	0	1
20 - 29	1	1	2
30 - 39	1	0	1
40 - 49	7	4	11
50 - 59	15	3	18
60 - 69	35	10	45
70 - 79	27	9	36
80 - 89	6	4	10
90 - 99	0	0	0
Total	93	31	124

Histological Distribution

Histologic type	Number of patients (%)	
Acinic cell ca.	1	(0.8)
Adenosquamous ca.	1	(0.8)
Adenoid cystic ca.	4	(3.2)
Carcinoma, NOS	2	(1.6)
Ca., undiff., NOS	1	(0.8)
Carcinosarcoma	1	(0.8)
Chondrosarcoma, NOS	1	(0.8)
Malig. fibrous histiocyto	1	(0.8)
Malig, Lymphoma	1	(0.8)
Malig. Melanoma, NOS	1	(0.8)
Mucoepidermoid ca.	3	(2.4)
Neoplasm, malig.	2	(1.6)
Rhabdomyosarcoma, NOS	2	(1.6)
Spindle cell ca., NOS	2	(1.6)
S.C.C. kerat., NOS	8	(6.5)
S.C.C. large cell, nonkerat.	2	(1.6)
S.C.C., NOS	89	(71.8)
S.C.C. small cell, nonkerat.	1	(0.8)
S.C.C., spindle cell	1	(0.8)
Total	124	(100.0)

ca., Ca.: carcinoma.
undiff.: undifferentiated.
S.C.C.: squamous cell carcinoma.
nonkerat.: nonkeratinizing.

NOS: not otherwise specified.
Malig., malig.: malignant.
kerat :keratinizing.

Carcinoma of the Maxillary Sinus ----- 124 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	1	0	0	0	0	0	0	0	0	1
T2	6	1 *	0	0	0	0	0	0	0	7
T3	30	3	0	1	1	0	0	0	0	35
T4	1	0	1 *	0	1	1 *	0	0	0	4
T4a	40	7	0	0	4	2	0	0	0	53
T4b	8	0	0	0	7	3	0	0	0	18
TX	0	0	0	0	0	0	0	1	0	1
T-	0	1	0	0	1 *	0	0	0	3	5
Total	86	12	1	1	14	6	0	1	3	124

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

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

N-: without reported N classification.

Sequence of Treatment Methods for the Primary Lesion

Sequence of treatment methods	Number of patients (%)	
No treatment	7	(5.6)
F) (Rad.+Chem.)	44	(35.5)
A) Surg. alone	14	(11.3)
AB) Surg. -> Rad.	10	(8.1)
AF) Surg. -> (Rad.+Chem.)	9	(7.3)
FA) (Rad.+Chem.) -> Surg.	7	(5.6)
CA) Chem.-> Surg.	4	(3.2)
B) Rad. alone	3	(2.4)
CF) Chem. -> (Rad.+Chem.)	3	(2.4)
FC) (Rad.+Chem.)->Chem.	3	(2.4)
D) (Surg.+Rad.)	2	(1.6)
G) (Surg.+Rad.+Chem.)	2	(1.6)
AC) Surg.->Chem.	2	(1.6)
Others	11	(8.9)
Unknown	3	(2.4)
Total	124	(100.0)

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Maxillary Sinus ——— 124 Cases

Treatment Method for the Primary Lesion

Treatment method	Number of patients (%)	
Surgery		
Without	64	(51.6)
With	57	(46.0)
Unknown	3	(2.4)
Radiotherapy		
Without	30	(24.2)
With	91	(73.4)
Unknown	3	(2.4)
Chemotherapy		
Without	38	(30.7)
With	83	(66.9)
Unknown	3	(2.4)
Total	124	(100.0)

Treatment Method for the Cervical Lymph Nodes

Treatment method	Number of patients (%)	
Surgery		
Without	93	(75.0)
With	28	(22.6)
Unknown	3	(2.4)
Radiotherapy		
Without	88	(71.0)
With	33	(26.6)
Unknown	3	(2.4)
Chemotherapy		
Without	84	(67.8)
With	37	(29.8)
Unknown	3	(2.4)

Surgical Method for the Primary Lesion

Surgical method	Number of patients (%)	
0) No surgery	63	(50.8)
D2) Total maxillectomy	28	(22.6)
D1) Partial maxillectomy	15	(12.1)
D9) Maxillectomy, other type	7	(5.6)
D3) Extended total maxillectomy	6	(4.8)
D4) Extended total maxillectomy with skullbase surgery	1	(0.8)
X9) Others	1	(0.8)
Unknown	3	(2.4)
Total	124	(100.0)

Carcinoma of the Maxillary Sinus ----- 124 Cases

Neck Dissection on the Ipsilateral Side

Neck dissection	Number of patients (%)
0) No N.D.	94 (75.8)
1) Total N.D.	1 (0.8)
2) Selective N.D.	22 (17.8)
3) Lymph node excision	1 (0.8)
9) Unknown	6 (4.8)
Total	124 (100.0)

N.D.: neck dissection.

Neck Dissection on the Contralateral Side

Neck dissection	Number of patients (%)
0) No N.D.	118 (95.2)
1) Total N.D.	0 (0.0)
2) Selective N.D.	1 (0.8)
3) Lymph node excision	0 (0.0)
9) Unknown	5 (4.0)
Total	124 (100.0)

N.D.: neck dissection.

Reconstructive Surgery

Reconstructive surgery	Number of patients (%)
0) No reconstruction	85 (68.6)
D) Free RA MC flap	22 (17.8)
G) Fibular OC flap	6 (4.8)
1) Skin graft	3 (2.4)
E) Free ALT flap	2 (1.6)
C) Free FA flap	1 (0.8)
8) Others	2 (1.6)
Unknown	3 (2.4)
Total	124 (100.0)

NOS: not otherwise specified.
 MC: musculocutaneous.
 ALT: anterolateral thigh.

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

Carcinoma of the Maxillary Sinus ----- 124 Cases

Radiotherapy

Type of radiotherapy	Number of patients (%)	
0) No radiotherapy	28	(22.6)
1) X-ray (and/or electron beam)	91	(73.4)
3) Particle beam	1	(0.8)
4) X-ray + Particle beam	0	(0.0)
9) Unknown	4	(3.2)
Total	124	(100.0)

Chemotherapy

Route of administration	Number of patients (%)	
0) No chemotherapy	34	(27.4)
2) I.A.	42	(33.9)
1) I.V.	31	(25.0)
4) I.V.+ I.A.	7	(5.7)
3) Oral	4	(3.2)
6) I.A. + Oral	1	(0.8)
Unknown route	2	(1.6)
9) Unknown	3	(2.4)
Total	124	(100.0)

I.A.: intraarterial.

I.V.: intravenous.

Major Salivary Glands (2012)

179 Cases

Carcinoma of the Major Salivary Glands ----- 179 Cases

Primary site

Site	Number of patients (%)	
Parotid gland	123	(68.7)
Submandibular gland	50	(27.9)
Sublingual gland	6	(3.4)
Major salivary gland, NOS	0	(0.0)
Total	179	(100.0)

NOS: not otherwise specified.

Major Salivary Gland ----- 179 Cases

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	1	2
10 - 19	0	1	1
20 - 29	2	4	6
30 - 39	6	4	10
40 - 49	3	6	9
50 - 59	21	6	27
60 - 69	38	18	56
70 - 79	27	14	41
80 - 89	21	5	26
90 - 99	0	1	1
Total	119	60	179

Parotid Gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	1	2
10 - 19	0	1	1
20 - 29	1	2	3
30 - 39	3	2	5
40 - 49	2	4	6
50 - 59	18	6	24
60 - 69	23	12	35
70 - 79	17	11	28
80 - 89	18	1	19
90 - 99	0	0	0
Total	83	40	123

Major Salivary Gland ----- 179 Cases

Submandibular Gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	1	2	3
30 - 39	3	2	5
40 - 49	0	1	1
50 - 59	2	0	2
60 - 69	15	5	20
70 - 79	9	2	11
80 - 89	3	4	7
90 - 99	0	1	1
Total	33	17	50

Sublingual Gland

Age Distribution by Gender

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

Histological Distribution by Primary Site

Histologic type	Parotid gland (C07.9)	Submandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Acinic cell carcinoma	11	0	0	0	11
Adenocarcinoma	12	5	0	0	17
Adenoid cystic carcinoma	8	15	4	0	27
Basal cell carcinoma	3	0	0	0	3
Ca. ex pleomorphic adenoma	10	9	0	0	19
Carcinoma, NOS	4	1	0	0	5
Carcinosarcoma, NOS	1	0	0	0	1
Epithelial-myoepithelial carcinoma	8	0	0	0	8
Myoepithelial carcinoma	1	0	0	0	1
Malig. Lymphoma, NOS	5	3	0	0	8
Mucinous adenocarcinoma	1	0	0	0	1
Mucoepidermoid carcinoma	23	2	2	0	27
Papillary S.C.C.	1	0	0	0	1
Salivary duct carcinoma	22	9	0	0	31
Sebaceous carcinoma	2	0	0	0	2
Spindle cell carcinoma	1	0	0	0	1
S.C.C., NOS	10	6	0	0	16
Total	123	50	6	0	179

NOS: not otherwise specified.
S.C.C.: squamous cell carcinoma.

Ca., ca.: carcinoma.

Malig., malig.: malignant.

Carcinoma of the Major Salivary Glands ----- 179 Cases

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	1
T1	13	1	0	0	2 *	0	0	0	1	17
T2	46	3 *	0	1	5 *	0	0	0	0	55
T3	27 **	4	0	0	11 **	1	0	0	0	43
T4	0	0	0	0	3	0	0	0	0	3
T4a	26 *	2	0	1	12 **	0	0	0	0	41
T4b	1	0	0	0	0	0	0	1	0	2
TX	1	0	0	0	1 *	0	0	1	0	3
T-	1	0	0	0	0	0	0	0	13	14
Total	116	10	0	2	34	1	0	2	14	179

M1: 11 cases. Each * signifies one M1 case.

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

N-: without reported N classification.

Parotid Gland

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	1
T1	6	0	0	0	1 *	0	0	0	1	8
T2	28	3 *	0	1	3	0	0	0	0	35
T3	19 *	3	0	0	6 *	0	0	0	0	28
T4	0	0	0	0	2	0	0	0	0	2
T4a	23 *	2	0	1	9 *	0	0	0	0	35
T4b	1	0	0	0	0	0	0	1	0	2
TX	0	0	0	0	0	0	0	1	0	1
T-	1	0	0	0	0	0	0	0	10	11
Total	79	8	0	2	21	0	0	2	11	123

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

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

N-: without reported N classification.

Carcinoma of the Major Salivary Glands ----- 179 Cases

Submandibular Gland

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
T1	6	1	0	0	1	0	0	0	0	8
T2	16	0	0	0	2 *	0	0	0	0	18
T3	6	1	0	0	5 *	1	0	0	0	13
T4	0	0	0	0	1	0	0	0	0	1
T4a	2	0	0	0	3 *	0	0	0	0	5
T4b	0	0	0	0	0	0	0	0	0	0
TX	1	0	0	0	1 *	0	0	0	0	2
T-	0	0	0	0	0	0	0	0	3	3
Total	31	2	0	0	13	1	0	0	3	50

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

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

N-: without reported N classification.

Sublingual Gland

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
T1	1	0	0	0	0	0	0	0	0	1
T2	2	0	0	0	0	0	0	0	0	2
T3	2 *	0	0	0	0	0	0	0	0	2
T4	0	0	0	0	0	0	0	0	0	0
T4a	1	0	0	0	0	0	0	0	0	1
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	6	0	0	0	0	0	0	0	0	6

M1: 1 cases. * signifies one M1 case.

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

N-: without reported N classification.

Carcinoma of the Major Salivary Glands ----- 179 Cases

Treatment Method for the Primary Lesion by Primary Site

Treatment method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Surgery					
Without	12	8	0	0	20
With	101	40	4	0	145
Unknown	10	2	2	0	14
Radiotherapy					
Without	68	24	2	0	94
With	45	24	2	0	71
Unknown	10	2	2	0	14
Chemotherapy					
Without	96	44	4	0	144
With	17	4	0	0	21
Unknown	10	2	2	0	14
Total	123	50	6	0	179

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Primary Site

Treatment method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Surgery					
Without	41	11	1	0	53
With	71	37	3	0	111
Unknown	11	2	2	0	15
Radiotherapy					
Without	88	31	4	0	123
With	24	17	0	0	41
Unknown	11	2	2	0	15
Chemotherapy					
Without	103	44	4	0	151
With	9	4	0	0	13
Unknown	11	2	2	0	15
Total	123	50	6	0	179

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Site

Sequence of treatment methods	Parotid gland (C07.9)	Submandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
No treatment	3	3	0	0	6
A) Surg. alone	57	20	2	0	79
AB) Surg.->Rad.	32	17	2	0	51
AF) Surg.->(Rad.+Chem.)	5	1	0	0	6
C) Chem. alone	4	1	0	0	5
B) Rad. alone	2	2	0	0	4
CF) Chem.->(Rad.+Chem.)	2	0	0	0	2
AC) Surg.->Chem.	2	0	0	0	2
D) (Surg.+Rad.)	0	2	0	0	2
Others	6	2	0	0	8
Unknown	10	2	2	0	14
Total	123	50	6	0	179

NOS: not otherwise specified.

Carcinoma of the Major Salivary Gland ----- 179 Cases

Surgical Method for the Primary Site

Surgical method	Parotid gland (C07.9)	Submandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
X0) No surgery	11	9	0	0	20
H4) Total parotidectomy	43	0	0	0	43
H6) Submandibulectomy	36	0	0	0	36
H2) Superficial parotidectomy	20	0	0	0	20
H5) Extended total parotidectomy	20	0	0	0	20
H1) Partial parotidectomy	9	0	0	0	9
H3) Deep lobe resection of the parotid gland	7	0	0	0	7
Others	1	2	3	0	6
Unknown method	2	2	0	0	4
Unknown	10	2	2	0	14
Total	159	15	5	0	179

NOS: not otherwise specified.

Carcinoma of the Major Salivary Glands ----- 179 cases

Neck Dissection on the Ipsilateral Side by Primary Site

Neck dissection	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No N.D.	42	12	1	0	55
1) Total N.D.	25	5	0	0	30
2) Selective N.D.	37	31	2	0	70
3) Lymph node excision	5	0	1	0	6
Unknown dissection	4	0	0	0	4
9) Unknown	10	2	2	0	14
Total	123	50	6	0	179

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Primary Site

Neck dissection	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No N.D.	110	47	3	0	160
1) Total N.D.	0	0	0	0	0
2) Selective N.D.	0	1	1	0	2
3) Lymph node excision	0	0	0	0	0
Unknown dissection	3	0	0	0	3
9) Unknown	10	2	2	0	14
Total	123	50	6	0	179

N.D.: neck dissection.

Carcinoma of the Major Salivary Gland ----- 179 Cases

Reconstructive Surgery by Primary Site

Reconstructive surgery	Parotid gland (C07.9)	Submandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No reconstruction	72	48	2	0	122
I) Nerve graft	14	0	0	0	14
D) Free RA MC flap	11	0	0	0	11
E) Free ALT flap	4	0	0	0	4
E)+I) Free ALT flap+Nerve graft	2	0	0	0	2
5) PM MC flap	2	0	0	0	2
1) Skin graft	0	0	1	0	1
2) Local skin flap	1	0	0	0	1
G) Fibular OC flap	0	0	1	0	1
H) Vascularizes nerve grft	1	0	0	0	1
8) Others	6	0	0	0	6
Unknown	10	2	2	0	14
Total	123	50	6	0	179

NOS: not otherwise specified.

RA: rectus abdominis.

PM: pectoralis major.

MC: musculocutaneous.

OC: osteocutaneous.

ALT: anterolateral thigh.

Carcinoma of the Major Salivary Glands ----- 179 Cases

Radiotherapy by Primary Site

Type of radiotherapy	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No radiotherapy	67	24	2	0	93
1) X-ray (and/or electron beam)	41	22	2	0	65
3) Particle beam	4	2	0	0	6
8) Others	1	0	0	0	1
9) Unknown	10	2	2	0	14
Total	123	50	6	0	179

NOS: not otherwise specified

Chemotherapy by Primary Site

Route of administration	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sublingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No chemotherapy	96	42	4	0	142
1) I.V.	16	3	0	0	19
3) Oral	1	3	0	0	4
9) Unknown	10	2	2	0	14
Total	123	50	6	0	179

NOS: not otherwise specified.

I.V.: intravenous.