

**Report of Head and Neck Cancer Registry of Japan**  
**Clinical Statistics of Registered Patients, 2011**

**Japan Society for Head and Neck Cancer**  
**Cancer Registry Committee**

## Preface of Renewal Registry

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 cases treated 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 suspend the registration of patients treated in 2004 and later.

Since then, there have been various discussions and investigations for resuming the Head and Neck Cancer Registry in Japan. These discussions were made from the points of view of personal information, maintenance and finances for the registry system, and so on. Afterwards 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 took place on May 25, 2012 after renewing the contents and methods of registration.

This supplement is the report of the first year of the renewed registration. Since after the long term suspension and the introduction of renewed registration contents and system, some problems that need solutions exist, and some minor changes might be necessary. Moreover, the registration without any obligation and incentives for doctors of the participating institutions makes it difficult. However, this vast organ-based registry led by doctors would contribute to the understanding of statistics and treatments of head and neck cancer in detail, other than hospital-based or population-based cancer registry in Japan. Therefore, a solution should be made and the development of this registry should be obtained.

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.

November 13, 2013

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Ryuichi Hayashi, MD  
Chief Director of Cancer Registry  
Munanaga Nakamizo, MD  
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Japan Society for Head and Neck Cancer

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Japan Society for Head and Neck Cancer

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#### 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 first year of resumption, all the data stored in the INDICE system were reviewed by head and neck oncologists and analyzed 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 to Nov. 30 in 2012, 3,734 cases in 2011 were registered from 45 institutions. Five hundred and thirty-one cases were excluded (because of the initiation date of therapy being before 2011/1/1:55 cases; after 2012/1/1:399; previously treated cases:76; not malignant pathology:1), making the total number of registered patients 3,203 for 2011.

## List of 45 Institutions which participate in the Registry in 2011

1. Department of Otorhinolaryngology, Head and Neck Surgery, Japanese Red Cross Kitami Hospital
2. Department of Otorhinolaryngology, Head and Neck Surgery, Asahikawa Medical College
3. Department of Oral Surgery, Hokkaido University Hospital
4. Department of Otorhinolaryngology, Hirosaki University Hospital
5. Department of Oral Surgery, Saitama Cancer Center
6. Department of Head and Neck Surgery, Saitama Cancer Center
7. Department of Head and Neck Oncology, Saitama Medical University International Medical Center
8. Department of Otorhinolaryngology, Neck Surgery, Chiba University Hospital
9. Division of Head and Neck Surgery, National Cancer Center Hospital East
10. Department of Otorhinolaryngology, Teikyo University Hospital
11. Department of Oral Surgery, Tokyo Metropolitan Ohtsuka Hospital
12. Department of Otorhinolaryngology, Head and Neck Surgery, Nippon Medical School
13. Department of Otorhinolaryngology, The University of Tokyo Hospital
14. Department of Maxillofacial Surgery, Faculty of Dentistry, Tokyo Medical and Dental University Hospital
15. Oral and Maxillofacial Surgery, Faculty of Dentistry, Tokyo Medical and Dental University Hospital
16. Department of Otorhinolaryngology, Surugadai Nihon University Hospital
17. Department of Otorhinolaryngology, Tokyo Medical University Hospital
18. Department of Head and Neck Oncology, National Cancer Center Hospital
19. Department of Head and Neck Oncology, Cancer Institute Hospital
20. Department of Otorhinolaryngology, Jikei University Hospital
21. Department of Otolaryngology, Toho University Omori Medical Center
22. Department of Dentistry and Oral Surgery, Tokyo Metropolitan Tama Medical Center
23. Department of Otorhinolaryngology, Head and Neck Surgery, Tokyo Medical

University Hachioji Medical Center

24. Department of Otorhinolaryngology, Tokai University Hospital
25. Department of Dentistry and Oral Surgery, Toshiba Rinkan Hospital
26. Department of Otorhinolaryngology, Yamanashi Prefectural Central Hospital
27. Department of Otorhinolaryngology, Niigata University Medical and Dental Hospital
28. Department of Oral Reconstructive Surgery, Niigata University Medical and Dental Hospital
29. Department of Otorhinolaryngology, Nagaoka Red Cross Hospital
30. Department of Otorhinolaryngology, Ishikawa Prefectural Central Hospital
31. Department of Head and Neck Surgery, Shizuoka Cancer Center
32. Department of Head and Neck Surgery, Aichi Cancer Center
33. Department of Otorhinolaryngology, Japanese Red Cross Nagoya Daiichi Hospital
34. Department of Otorhinolaryngology, Nagoya University Hospital
35. Department of Otorhinolaryngology, Head and Neck Surgery, Mie University Hospital
36. Department of Otorhinolaryngology, Head and Neck Surgery, Nara Medical University Hospital
37. Department of Otorhinolaryngology, Neck Surgery, Osaka Red Cross Hospital
38. Department of Otorhinolaryngology, Head and Neck Surgery, Kansai Medical University Hirakata Hospital
39. Department of Dentistry and Oral Surgery, Wakayama Medical University Hospital
40. Department of Otorhinolaryngology, Head and Neck Surgery, Kobe University Hospital
41. Department of Dentistry and Oral Surgery, Shimane University Hospital
42. Department of Otorhinolaryngology, Kochi Health Science Center
43. Department of Otorhinolaryngology, Neck Surgery, Kurume University Hospital
44. Department of Otorhinolaryngology, Head and Neck Surgery, Nagasaki University Hospital

45. Department of Otorhinolaryngology, Neck Surgery, Kagoshima Municipal Hospital

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Total Cases .....	1
Oral Cavity .....	15
Larynx .....	33
Hypopharynx .....	52
Oropharynx .....	74
Nasopharynx .....	83
Nasal Cavity and Paranasal Sinuses	
Excluding the Maxillary Sinus .....	91
Maxillary Sinus .....	99
Major Salivary Glands .....	105

**Total Cases (2011)**

**3203 cases**



## Head and Neck Cancer ----- 3203 cases

## Primary site

Site	Number of patients (%)	
1) Oral cavity	1064	( 33.2)
2) Larynx	566	( 17.7)
3) Hypopharynx	637	( 19.9)
4) Oropharynx	478	( 14.9)
5) Nasopharynx	97	( 3.0)
6) Nasal cavity, etc	82	( 2.6)
7) Maxillary sinus	122	( 3.8)
8) Major salivary glands	157	( 4.9)
Total	3203	(100.0)

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

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	4	4
10 - 19	2	5	7
20 - 29	22	11	33
30 - 39	53	35	88
40 - 49	140	63	203
50 - 59	371	95	466
60 - 69	965	180	1145
70 - 79	729	173	902
80 - 89	225	104	329
90 -	9	17	26
Total	2516	687	3203

## Head and Neck Cancer ----- 3203 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.	0	0	0	1	0	0	0	11	12
Adenocarcinoma, NOS	2	1	0	1	0	2	3	20	29
Adenoid cystic ca.	14	1	0	2	4	6	4	24	55
Adenosquamous ca.	2	1	2	1	0	0	0	0	6
Basal cell adenocarcinoma	0	0	0	0	0	0	0	1	1
Basal cell carcinoma, NOS	1	0	1	0	0	0	0	1	3
Basaloid S.C.C.	3	1	4	3	0	0	0	0	11
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	15	16
Carcinoma, NOS	5	0	1	2	2	1	2	3	16
Ca., undiff., NOS	1	1	0	0	4	3	4	0	13
Carcinosarcoma, NOS	0	0	0	0	0	0	1	0	1
Chondrosarcoma, NOS	0	0	0	0	0	0	0	0	0
Clear cell carcinoma, NOS	1	0	0	0	0	0	0	0	1
Cystic adenocarcinoma	0	0	0	0	0	0	0	1	1
Epithelial-myoepithelial carcinoma	1	0	0	0	0	0	0	5	6
Ewing sarcoma, NOS	0	0	0	0	0	0	0	0	0
Fibrosarcoma, NOS	0	0	0	0	0	0	1	0	1
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	1	0	15	0	0	0	16
Malig. Fibrous histiocytoma	0	0	0	0	0	0	1	0	1
Malig. Lymphoma, NOS	3	0	0	0	1	2	0	5	11
Malig. Melanoma, NOS	1	0	0	0	0	17	3	0	21
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	0	0
Mucoepidermoid ca.	8	1	0	4	0	0	2	29	44
Myoepithelial carcinoma	1	0	0	0	0	1	1	4	7
Neoplasm, malig.	3	0	0	0	1	1	1	1	7
Olfactory neuroblastoma	0	0	0	0	0	8	0	0	8
Oncocytic carcinoma	0	0	0	0	0	0	0	0	0
Osteosarcoma, NOS	5	0	0	0	0	0	0	0	5
Papillary S.C.C.	4	2	0	1	0	2	2	0	11
Plasmacytoma, NOS	0	0	0	0	0	0	1	0	1
Polymorphous low grade adenocarcinoma	1	0	0	2	0	0	0	0	3
Rhabdomyosarcoma, NOS	0	0	0	0	0	4	3	0	7
Salivary duct carcinoma	1	0	0	0	0	1	0	24	26
Sebaceous carcinoma	0	0	0	0	0	0	0	0	0
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	1	0	0	2	2	2	7
Spindle cell ca., NOS	1	3	2	1	1	0	1	0	9
S.C.C. in situ with quest. stromal invasion	1	0	1	0	0	0	0	0	2
S.C.C. in situ, NOS	17	12	32	6	0	0	1	1	69
S.C.C. kerat., NOS	95	45	32	28	4	5	6	0	215
S.C.C. large cell, nonkerat.	1	1	1	1	10	1	0	0	15
S.C.C. microinvasive	20	2	3	8	0	0	0	0	33
S.C.C., NOS	862	480	556	416	52	24	77	10	2477
S.C.C., small cell, nonkeratinizing	1	1	0	1	3	0	1	0	7
S.C.C. spindle cell	1	14	0	0	0	0	3	0	18
Transitional cell carcinoma, NOS	0	0	0	0	0	1	2	0	3
Verrucous ca., NOS	7	0	0	0	0	1	0	0	8
Total	1064	566	637	478	97	82	122	157	3203

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	0	0	0	0	8	8
Adenocarcinoma, NOS	2	0	0	1	0	1	3	12	19
Adenoid cystic ca.	4	0	0	1	2	3	1	6	17
Adenosquamous ca.	1	1	2	1	0	0	0	0	5
Basal cell adenocarcinoma	0	0	0	0	0	0	0	0	0
Basal cell carcinoma, NOS	1	0	1	0	0	0	0	0	2
Basaloid S.C.C.	3	1	4	3	0	0	0	0	11
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	10	11
Carcinoma, NOS	5	0	1	2	1	1	1	2	13
Ca., undiff., NOS	1	1	0	0	2	3	4	0	11
Carcinosarcoma, NOS	0	0	0	0	0	0	0	0	0
Chondrosarcoma, NOS	0	0	0	0	0	0	0	0	0
Clear cell carcinoma, NOS	1	0	0	0	0	0	0	0	1
Cystic adenocarcinoma	0	0	0	0	0	0	0	1	1
Epithelial-myoepithelial carcinoma	1	0	0	0	0	0	0	2	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	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	0	14	0	0	0	14
Malig.Fibrous histiocytoma	0	0	0	0	0	0	0	0	0
Malig. Lymphoma, NOS	2	0	0	0	0	2	0	2	6
Malig. Melanoma, NOS	0	0	0	0	0	10	3	0	13
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	0	0
Mucoepidermoid ca.	4	1	0	2	0	0	2	13	22
Myoepithelial carcinoma	0	0	0	0	0	1	1	3	5
Neoplasm, malig.	1	0	0	0	1	1	1	1	5
Olfactory neuroblastoma	0	0	0	0	0	6	0	0	6
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.	3	2	0	0	0	2	1	0	8
Plasmacytoma, NOS	0	0	0	0	0	0	1	0	1
Polymorphous low grade adenocarcinoma	0	0	0	0	0	0	0	0	0
Rhabdomyosarcoma, NOS	0	0	0	0	0	3	2	0	5
Salivary duct carcinoma	1	0	0	0	0	1	0	21	23
Sebaceous carcinoma	0	0	0	0	0	0	0	0	0
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	1	0	0	2	2	1	6
Spindle cell ca., NOS	1	3	2	0	1	0	1	0	8
S.C.C. in situ with quest. stromal invasion	1	0	1	0	0	0	0	0	2
S.C.C. in situ, NOS	10	12	31	6	0	0	0	0	59
S.C.C. kerat., NOS	65	42	28	25	3	4	5	0	172
S.C.C. large cell, nonkerat.	1	1	0	1	6	0	0	0	9
S.C.C. microinvasive	13	2	1	6	0	0	0	0	22
S.C.C., NOS	548	452	519	349	38	18	67	8	1999
S.C.C., small cell, nonkeratinizing	1	1	0	1	3	0	1	0	7
S.C.C. spindle cell	0	12	0	0	0	0	1	0	13
Transitional cell carcinoma, NOS	0	0	0	0	0	1	2	0	3
Verrucous ca., NOS	4	0	0	0	0	1	0	0	5
Total	676	531	591	398	71	60	99	90	2516

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 ----- 3203 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.	0	0	0	1	0	0	0	3	4
Adenocarcinoma, NOS	0	1	0	0	0	1	0	8	10
Adenoid cystic ca.	10	1	0	1	2	3	3	18	38
Adenosquamous ca.	1	0	0	0	0	0	0	0	1
Basal cell adenocarcinoma	0	0	0	0	0	0	0	1	1
Basal cell carcinoma, NOS	0	0	0	0	0	0	0	1	1
Basaloid S.C.C.	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	5	5
Carcinoma, NOS	0	0	0	0	1	0	1	1	3
Ca., undiff., NOS	0	0	0	0	2	0	0	0	2
Carcinosarcoma, NOS	0	0	0	0	0	0	1	0	1
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	0
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	1	0	1
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	1	0	1	0	0	0	2
Malig. Fibrous histiocytoma	0	0	0	0	0	0	1	0	1
Malig. Lymphoma, NOS	1	0	0	0	1	0	0	3	5
Malig. Melanoma, NOS	1	0	0	0	0	7	0	0	8
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	0	0
Mucoepidermoid ca.	4	0	0	2	0	0	0	16	22
Myoepithelial carcinoma	1	0	0	0	0	0	0	1	2
Neoplasm, malig.	2	0	0	0	0	0	0	0	2
Olfactory neuroblastoma	0	0	0	0	0	2	0	0	2
Oncocytic carcinoma	0	0	0	0	0	0	0	0	0
Osteosarcoma, NOS	4	0	0	0	0	0	0	0	4
Papillary S.C.C.	1	0	0	1	0	0	1	0	3
Plasmacytoma, NOS	0	0	0	0	0	0	0	0	0
Polymorphous low grade adenocarcinoma	1	0	0	2	0	0	0	0	3
Rhabdomyosarcoma, NOS	0	0	0	0	0	1	1	0	2
Salivary duct carcinoma	0	0	0	0	0	0	0	3	3
Sebaceous carcinoma	0	0	0	0	0	0	0	0	0
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	0	0	1	1
Spindle cell ca., NOS	0	0	0	1	0	0	0	0	1
S.C.C. in situ with quest. stromal invasion	0	0	0	0	0	0	0	0	0
S.C.C. in situ, NOS	7	0	1	0	0	0	1	1	10
S.C.C. kerat., NOS	30	3	4	3	1	1	1	0	43
S.C.C. large cell, nonkerat.	0	0	1	0	4	1	0	0	6
S.C.C. microinvasive	7	0	2	2	0	0	0	0	11
S.C.C., NOS	314	28	37	67	14	6	10	2	478
S.C.C., small cell, nonkeratinizing	0	0	0	0	0	0	0	0	0
S.C.C. spindle cell	1	2	0	0	0	0	2	0	5
Transitional cell carcinoma, NOS	0	0	0	0	0	0	0	0	0
Verrucous ca., NOS	3	0	0	0	0	0	0	0	3
Total	388	35	46	80	26	22	23	67	687

Nasal cavity, etc.: nasal cavity and paranasal sinuses (excluding the maxillary sinus).  
 NOS: not otherwise specified.  
 undiff.: undifferentiated.  
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S.C.C.: squamous cell carcinoma.  
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 kerat.: keratinizing.

## Head and Neck Cancer ----- 3203 cases

**T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	N3b	NX	N-	Total
T0	2	0	0	0	0	0	0	0	0	0	2
Tis	42	0	0	0	0	0	0	0	0	0	42
T1	548	27	10	7	38	8	8	1	0	3	650
T2	604	96	12	25	190	56	23	1	0	7	1014
T3	257	73	6	6	124	54	13	1	0	5	539
T4	54	14	16	1	20	13	2	0	0	1	121
T4a	223	82	0	10	148	127	10	0	1	2	603
T4b	35	4	0	1	22	14	2	0	0	1	79
TX	1	0	0	2	2	0	0	0	1	0	6
T-	17	0	0	0	4	0	1	0	1	124	147
<b>Total</b>	<b>1783</b>	<b>296</b>	<b>44</b>	<b>52</b>	<b>548</b>	<b>272</b>	<b>59</b>	<b>3</b>	<b>3</b>	<b>143</b>	<b>3203</b>

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

N-: without reported N classification.

**T and N Status (M0 cases)**

	N0	N1	N2	N2a	N2b	N2c	N3	N3b	NX	N-	Total
T0	2	0	0	0	0	0	0	0	0	0	2
Tis	42	0	0	0	0	0	0	0	0	0	42
T1	542	27	8	7	37	8	6	1	0	3	639
T2	596	96	11	25	182	50	21	1	0	5	987
T3	250	73	6	6	113	50	9	1	0	4	512
T4	52	14	13	1	20	10	1	0	0	1	112
T4a	212	79	0	9	141	120	8	0	0	2	571
T4b	34	3	0	1	21	12	2	0	0	1	74
TX	1	0	0	1	1	0	0	0	0	0	3
T-	15	0	0	0	4	0	1	0	0	2	22
<b>Total</b>	<b>1746</b>	<b>292</b>	<b>38</b>	<b>50</b>	<b>519</b>	<b>250</b>	<b>48</b>	<b>3</b>	<b>0</b>	<b>18</b>	<b>2964</b>

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

N-: without reported N classification.

## Head and Neck Cancer ----- 3203 cases

**T and N status (M1 cases)**

	N0	N1	N2	N2a	N2b	N2c	N3	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0	0
T1	0	0	1	0	1	0	2	0	0	0	4
T2	2	0	0	0	6	6	2	0	0	0	16
T3	2	0	0	0	6	4	4	0	0	0	16
T4	1	0	3	0	0	2	1	0	0	0	7
T4a	7	3	0	1	3	7	2	0	0	0	23
T4b	1	1	0	0	1	2	0	0	0	0	5
TX	0	0	0	0	1	0	0	0	0	0	1
T-	0	0	0	0	0	0	0	0	0	2	2
<b>Total</b>	<b>13</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>18</b>	<b>21</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>74</b>

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

N-: without reported N classification.

**T and N status (M- cases)**

	N0	N1	N2	N2a	N2b	N2c	N3	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0	0
T1	6	0	1	0	0	0	0	0	0	0	7
T2	6	0	1	0	2	0	0	0	0	2	11
T3	5	0	0	0	5	0	0	0	0	1	11
T4	1	0	0	0	0	1	0	0	0	0	2
T4a	4	0	0	0	4	0	0	0	1	0	9
T4b	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	1	0	0	0	0	1	0	2
T-	2	0	0	0	0	0	0	0	1	120	123
<b>Total</b>	<b>24</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>123</b>	<b>165</b>

M-: without reported M classification.

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

N-: without reported N classification.

## Head and Neck Cancer ----- 3203 cases

## Treatment Method for the Primary Lesion by Primary Site

Treatment method	(1) Oral cavity	(2) Larynx	(3) Hypo-pharynx	(4) Oro-pharynx	(5) Naso-pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
Surgery									
Without	122	381	338	275	96	47	67	19	1345
With	899	177	288	192	1	34	47	137	1775
Unknown	43	8	11	11	0	1	8	1	83
Radiotherapy									
Without	787	160	228	167	4	21	23	91	1481
With	234	398	395	299	92	60	92	64	1634
Unknown	43	8	14	12	1	1	7	2	88
Chemotherapy									
Without	782	397	291	199	17	39	39	124	1888
With	233	164	334	270	80	42	78	32	1233
Unknown	41	5	12	9	0	1	5	1	74
Total	1064	566	637	478	97	82	122	157	3203

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 glands	Total
Surgery									
Without	539	441	371	317	90	75	98	61	1992
With	484	119	250	148	6	7	18	91	1123
Unknown	41	6	16	9	1	0	6	5	84
Radiotherapy									
Without	858	448	281	205	15	72	90	120	2089
With	165	112	341	264	81	10	25	36	1034
Unknown	41	6	15	9	1	0	7	1	80
Chemotherapy									
Without	860	467	310	199	20	70	88	140	2154
With	161	92	310	270	76	12	27	16	964
Unknown	43	7	17	9	1	0	7	1	85
Total	1064	566	637	478	97	82	122	157	3203

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	16	17	10	1	3	3	6	82
A) Surg. alone	690	136	176	127	0	13	9	77	1228
F) (Rad.+Chem.)	33	113	156	134	50	12	28	3	529
B) Rad. alone	33	224	67	44	17	16	16	2	419
AB) Surg.->Rad.	36	12	22	11	0	7	6	35	129
CF) Chem.->(Rad.+Chem.)	1	16	48	39	8	4	4	1	121
CA) Chem.->Surg.	51	8	23	9	0	3	3	0	97
AF) Surg.->(Rad.+Chem.)	28	2	16	12	1	3	6	4	72
C) Chem. alone	18	0	13	10	5	2	5	6	59
FC) (Rad.+Chem.)->Chem.	4	6	15	13	12	3	1	1	55
CAF) Chem.->Surg.->(Rad.+Chem.)	14	2	14	3	0	4	0	0	37
FA) (Rad.+Chem.)->Surg.	13	3	3	0	0	1	8	1	29
AC) Surg.->Chem.	11	1	6	6	0	0	1	4	29
G) (Surg.+Rad.+Chem.)	12	2	3	3	0	0	1	7	28
CB) Chem.->Rad.	4	1	5	11	0	3	2	0	26
D) (Surg.+Rad.)	7	2	2	6	0	0	2	4	23
CAB) Chem.->Surg.->Rad.	7	0	8	3	0	0	2	0	20
BA) Rad.->Surg.	2	7	1	2	0	0	0	0	12
E) (Surg.+Chem.)	4	0	3	2	0	1	2	0	12
BC) Rad.->Chem.	2	1	1	2	2	1	1	1	11
Others	25	5	23	18	1	4	15	4	95
Unknown	43	9	15	13	0	2	7	1	90
Total	1064	566	637	478	97	82	122	157	3203

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 ----- 3203 cases

**Surgical Methods for the Primary Lesion by Primary Site**

Surgical method	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, etc.	(7) Maxillary sinus	(8) Major salivary glands	Total
No surgery	122	381	337	275	96	47	63	19	1340
A1) Partial glossectomy	339	0	1	0	0	0	0	0	340
F5) Total pharyngolaryngectomy	0	7	120	4	0	0	0	0	131
G5) Total laryngectomy	0	111	0	1	0	0	0	0	112
D1) Partial maxillectomy	61	0	0	0	0	3	12	0	76
B2) Segmental mandibulectomy	68	0	0	0	0	0	0	0	68
A5) Subtotal glossectomy	60	0	0	3	0	0	0	1	64
C4) Resection of the buccal mucosa	64	0	0	0	0	0	0	0	64
C2) Resection of the floor of mouth	60	0	0	0	0	0	0	2	62
E3) Unilateral resection of the lateral wall of oropharynx	0	0	0	56	0	0	0	0	56
B1) Marginal mandibulectomy	55	0	0	0	0	0	0	0	55
F1)G1) Endoscopic resection	0	8	49	1	0	0	0	0	58
F6) Total pharyngolaryngoesophagectomy	1	0	47	0	0	0	0	0	48
A2) Hemiglossectomy	43	0	0	0	0	0	0	0	43
H6) Total submandibulectomy	0	0	0	0	0	0	0	41	41
H4) Total parotidectomy	0	0	0	0	0	0	0	35	35
G2) Transoral resection	0	31	2	0	0	0	0	0	33
A4) Hemiglossectomy	30	0	0	0	0	0	0	0	30
D2) Total maxillectomy	9	0	0	0	0	1	19	0	29
H2) Superficial parotidectomy	0	0	0	0	0	0	0	29	29
F3) Partial hypopharyngectomy	0	0	25	0	0	0	0	0	25
E1) Resection of the root of tongue	0	0	0	24	0	0	0	0	24
F2) Transoral resection of the pharynx	0	0	19	1	0	0	0	0	20
Others	71	12	14	80	0	30	16	23	246
Unknown	81	16	23	33	1	1	12	7	174
<b>Total</b>	<b>1064</b>	<b>566</b>	<b>637</b>	<b>478</b>	<b>97</b>	<b>82</b>	<b>122</b>	<b>157</b>	<b>3203</b>

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

## Head and Neck Cancer ----- 3203 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.	539	441	373	317	90	75	98	61	1994
1) Total N.D.	173	15	67	48	1	2	2	27	335
2) Selective N.D.	282	97	173	88	4	5	16	60	725
3) Lymph node excision	7	0	0	0	0	0	0	3	10
8) Others	2	1	0	0	0	0	0	1	4
9) Unknown	61	12	24	25	2	0	6	5	135
Total	1064	566	637	478	97	82	122	157	3203

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

N.D.: neck dissection.

## Neck Dissection on the Contralateral Side by Primary Site

Neck dissection	(1) Oral cavity	(2) Larynx	(3) Hypo- pharynx	(4) Oro- pharynx	(5) Naso- pharynx	(6) Nasal cavity, etc.	(7) Maxil- lary sinus	(8) Major salivary glands	Total
0) No N.D.	867	484	440	420	95	80	115	149	2650
1) Total N.D.	30	3	26	5	1	1	1	0	67
2) Selective N.D.	110	67	148	29	0	1	0	3	358
3) Lymph node excision	2	0	0	0	0	0	0	0	2
8) Others	0	1	0	0	0	0	0	0	1
9) Unknown	55	11	23	24	1	0	6	5	125
Total	1064	566	637	478	97	82	122	157	3203

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

N.D.: neck dissection.

Head and Neck Cancer ----- 3203 cases

Reconstructive Surgery by Primary Site

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
Reconstructive surgery	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
0) No reconstruction	603	545	435	392	96	69	88	119	2347
B) Free jejunal flap	2	7	168	5	0	0	0	0	182
D) Free RAMC flap	109	1	1	16	0	5	19	11	162
E) Free anterolateral thigh flap	75	0	1	28	0	1	0	1	106
C) Free FA flap	62	1	14	10	0	0	1	1	89
1) Skin graft	31	0	0	2	0	0	5	0	38
G) Free fibular OC flap	27	0	0	0	0	0	1	0	28
5) PM MC flap	13	2	0	6	0	0	0	1	22
2) Local skin flap	14	1	0	2	0	1	0	1	19
F) Free scaplar OC flap	16	0	0	0	0	0	0	0	16
I) Free nerve graft	0	0	0	0	0	0	0	11	11
3) Mucosal flap	2	1	0	3	0	0	0	0	6
7) Gastric pull-up	0	0	5	0	0	0	0	0	5
4) DP flap	2	0	1	0	0	0	0	1	4
6) LDMC flap (pedicled)	1	0	0	1	0	0	0	0	2
A) Pedicled large intestine E+I)	0	0	1	0	0	0	0	0	1
8) Others	31	0	0	3	0	0	0	1	1
9) Unknown	76	8	11	10	1	1	7	7	43
Total	1064	566	637	478	97	82	122	157	3203

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

DP: deltopectoral. PM: pectoralis major.

LD: latissimus dorsi. FA: forearm.

OC: osteocutaneous.

MC: musculoctaneous.

RA: rectus abdominis.

**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	787	160	228	167	4	21	23	91	1481
1) X-ray (and/or electron beam)	204	388	380	285	90	40	87	59	1533
2) Particle beam	3	0	0	0	0	19	3	3	28
3) B.T.	12	0	0	1	0	0	0	0	13
5) X-ray + B.T.	5	0	0	2	1	0	0	0	8
4) X-ray + Particle beam	0	0	0	0	1	1	1	0	3
8) Others	0	0	1	0	0	0	1	0	2
9) Unknown	53	18	28	23	1	1	7	4	135
<b>Total</b>	<b>1064</b>	<b>566</b>	<b>637</b>	<b>478</b>	<b>97</b>	<b>82</b>	<b>122</b>	<b>157</b>	<b>3203</b>

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

Head and Neck Cancer ----- 3203 cases

**Chemotherapy by Primary site**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
Route of administration	Oral cavity	Larynx	Hypo-pharynx	Oro-pharynx	Naso-pharynx	Nasal cavity, etc.	Maxillary sinus	Major salivary glands	
0) No chemotherapy	782	397	291	199	17	39	39	124	1888
1) I.V.	116	126	251	190	66	37	26	25	887
3) Oral	84	20	29	20	3	1	5	5	167
5) I.V.+Oral	8	4	26	19	10	1	2	1	71
2) I.A.	14	7	8	9	0	1	27	0	66
4) I.V.+I.A.	2	1	0	9	0	1	13	0	26
6) I.A.+Oral	4	0	0	2	0	0	3	0	9
7) I.V.+I.A.+Oral	0	0	0	0	0	0	1	0	1
9) Unknown	54	11	32	30	1	2	6	2	138
<b>Total</b>	<b>1064</b>	<b>566</b>	<b>637</b>	<b>478</b>	<b>97</b>	<b>82</b>	<b>122</b>	<b>157</b>	<b>3203</b>

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

**Oral Cavity (2011)**

**1064 cases**

## Carcinoma of the Oral Cavity ----- 1064 cases

## Subsite

Subsite	Number of patients (%)	
1) Lip	10	( 1.0)
2) Buccal mucosa	95	( 8.9)
3) Retromolar area	15	( 1.4)
4) Lower gingiva	148	( 13.9)
5) Upper gingiva	78	( 7.3)
6) Hard palate	28	( 2.6)
7) Floor of mouth	98	( 9.2)
8) Tongue	586	( 55.1)
9) Oral cavity, NOS	6	( 0.6)
Total	1064	(100.0)

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	1	1
10 - 19	0	1	1
20 - 29	12	8	20
30 - 39	26	21	47
40 - 49	59	31	90
50 - 59	96	46	142
60 - 69	243	89	332
70 - 79	181	106	287
80 - 89	56	71	127
90 -	3	14	17
Total	676	388	1064

## Carcinoma of the Oral Cavity ----- 1064 cases

## Carcinoma of the Lip

## Age Distribution by Gender

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

## Carcinoma of the Buccal Mucosa

## 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	0	0	0
40 - 49	3	0	3
50 - 59	3	5	8
60 - 69	12	9	21
70 - 79	23	15	38
80 - 89	7	14	21
90 -	0	2	2
Total	49	46	95

## Carcinoma of the Retromolar Area

## Age Distribution by Gender

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



## Carcinoma of the Oral Cavity ----- 1064 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	1	1
40 - 49	3	1	4
50 - 59	17	7	24
60 - 69	25	19	44
70 - 79	27	22	49
80 - 89	9	13	22
90 -	1	3	4
Total	82	66	148

## Carcinoma of the Upper Gingiva

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	3	1	4
50 - 59	2	5	7
60 - 69	12	6	18
70 - 79	14	12	26
80 - 89	5	14	19
90 -	0	3	3
Total	37	41	78

## 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	0	0
30 - 39	0	0	0
40 - 49	0	0	0
50 - 59	1	2	3
60 - 69	4	1	5
70 - 79	6	5	11
80 - 89	5	2	7
90 -	1	1	2
Total	17	11	28

## Carcinoma of the Oral Cavity ----- 1064 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	0	1
40 - 49	4	2	6
50 - 59	14	2	16
60 - 69	38	3	41
70 - 79	20	6	26
80 - 89	3	5	8
90 -	0	0	0
Total	80	18	98

## Carcinoma of the Tongue

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	1	1
10 - 19	0	0	0
20 - 29	10	8	18
30 - 39	24	20	44
40 - 49	46	26	72
50 - 59	56	24	80
60 - 69	141	49	190
70 - 79	85	42	127
80 - 89	26	23	49
90 -	1	4	5
Total	389	197	586

## 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	1	1
50 - 59	0	1	1
60 - 69	2	0	2
70 - 79	0	1	1
80 - 89	0	0	0
90 -	0	0	0
Total	3	3	6

NOS: not otherwise specified.

Carcinoma of the Oral Cavity ----- 1064 cases

Histological Distribution by Primary Site

Histologic type	(1) Lip	(2) Buccal mucosa	(3) Retro-molar	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Adenocarcinoma, NOS	0	0	0	0	0	1	0	1	0	2
Adenoid cystic ca.	0	3	0	2	0	4	3	2	0	14
Adenosquamous ca.	0	0	0	0	0	0	0	2	0	2
Basal cell carcinoma, NOS	1	0	0	0	0	0	0	0	0	1
Basaloid S.C.C.	0	0	0	1	0	0	1	1	0	3
Carcinoma ex pleomorphic adenoma	0	0	0	0	0	1	0	0	0	1
Carcinoma, NOS	0	1	0	0	1	0	1	0	1	4
Ca., undiff., NOS	0	0	0	0	1	0	0	0	0	1
Clear cell carcinoma, NOS	0	0	0	0	1	0	0	0	0	1
Epithelial-myoeipithelial carcinoma	0	0	0	0	0	0	1	0	0	1
Malig. Lymphoma, NOS	0	0	0	0	1	1	0	1	0	3
Malig. Melanoma, NOS	0	0	0	0	0	0	0	0	1	1
Mucoepidermoid ca.	1	2	0	1	0	1	1	2	0	8
Myoepithelial carcinoma	0	0	0	0	0	1	0	0	0	1
Neoplasm, malig.	0	1	0	2	0	0	0	1	0	4
Osteosarcoma, NOS	0	0	0	2	2	0	0	0	1	5
Papillary S.C.C.	0	0	0	2	0	0	1	1	0	4
Polymorphous low grade adenocarcinoma	0	0	0	0	0	1	0	0	0	1
Salivary duct carcinoma	0	1	0	0	0	0	0	0	0	1
Spindle cell ca., NOS	0	0	0	0	0	0	0	1	0	1
S.C.C. in situ with quest. stromal invasion	0	0	0	0	0	0	0	1	0	1
S.C.C. in situ, NOS	0	0	0	0	0	0	1	16	0	17
S.C.C. kerat., NOS	0	11	1	10	5	2	11	55	0	95
S.C.C. large cell, nonkerat.	0	0	0	0	0	0	0	1	0	1
S.C.C. microinvasive	0	2	0	0	0	0	0	16	0	18
S.C.C., NOS	7	71	14	126	67	16	78	480	3	862
S.C.C., small cell, nonkeratinizing	0	0	0	0	0	0	0	1	0	1
S.C.C. spindle cell	0	0	0	2	0	0	0	1	0	3
Verrucous ca., NOS	1	3	0	0	0	0	0	3	0	7
Total	10	95	15	148	78	28	98	586	6	1064

NOS: not otherwise specified.  
 Malign., malig.: malignant.  
 S.C.C.: squamous cell carcinoma.  
 quest.: questionable  
 ca., Ca.: carcinoma.  
 nonkerat.: nonkeratinizing.  
 undiff.: undifferentiated.  
 kerat.:keratinizing.

## Carcinoma of the Oral Cavity ----- 1064 cases

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	2	0	0	0	0	0	0	0	0	2
Tis	7	0	0	0	0	0	0	0	0	7
T1	229	6	0	0	3	2	0	0	0	240
T2	290 (2)	43	0	2	43	6 (1)	2 (1)	0	0	386
T3	54	19	0	0	28	5	0	0	1	107
T4	16	4	0	0	7	2	0	0	0	29
T4a	84 (1)	39 (2)	0	2	53	40 (1)	2 (1)	0	0	220
T4b	6	3 (1)	0	0	6	2	1	0	0	18
TX	1	0	0	0	0	0	0	1	0	2
T-	2	0	0	0	0	0	0	0	51	53
Total	691	114	0	4	140	57	5	1	52	1064

M1: 10 cases. Number in parentheses indicate numbers of M1 cases.

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

N- : without reported N classification.

## Carcinoma of the Lip

## T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	5	0	0	0	0	0	0	0	0	5
T2	5	0	0	0	0	0	0	0	0	5
T3	0	0	0	0	0	0	0	0	0	0
T4	0	0	0	0	0	0	0	0	0	0
T4a	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	10

M1: 0 case.

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

N- : without reported N classification.

## Carcinoma of the Oral Cavity ----- 1064 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	1	0	0	0	0	0	0	0	0	1
T1	14	0	0	0	0	0	0	0	0	14
T2	38 *	4	0	0	6	1	0	0	0	49
T3	5	2	0	0	3	0	0	0	0	10
T4	0	0	0	0	1	0	0	0	0	1
T4a	0	4	0	0	4	3	0	0	0	11
T4b	0	0	0	0	2	0	0	0	0	2
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	7	7
Total	58	10	0	0	16	4	0	0	7	95

M1: one case. \* indicates one M1 case.

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

N- : 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	0	0	0	0	0	0	0	0	0	0
T1	4	0	0	0	0	0	0	0	0	4
T2	2	0	0	0	2	0	0	0	0	4
T3	0	1	0	0	0	0	0	0	0	1
T4	0	0	0	0	0	0	0	0	0	0
T4a	1	2	0	0	2	0	0	0	0	5
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	3	0	0	4	0	0	0	1	15

M1: 0 case.

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

N- : without reported N classification.

## Carcinoma of the Oral Cavity ----- 1064 cases

## Carcinoma of the Lower Gingiva

## T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	8	0	0	0	0	0	0	0	0	8
T2	29	12	0	0	5	0	0	0	0	46
T3	5	1	0	0	3	0	0	0	0	9
T4	9	2	0	0	3	0	0	0	0	14
T4a	30	10	0	1	15	3	0	0	0	59
T4b	3	0	0	0	2	0	0	0	0	5
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	7	7
Total	84	25	0	1	28	3	0	0	7	148

M1: 0 case.

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

N- : 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	8	0	0	0	0	0	0	0	0	8
T2	19	3	0	0	0	0	0	0	0	22
T3	4	2	0	0	1	0	0	0	0	7
T4	1	0	0	0	0	0	0	0	0	1
T4a	16	3	0	0	4	3	0	0	0	26
T4b	2	2 *	0	0	0	2	0	0	0	6
TX	1	0	0	0	0	0	0	0	0	1
T-	2	0	0	0	0	0	0	0	5	7
Total	53	10	0	0	5	5	0	0	5	78

M1: one case.

\* indicates one M1 case.

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

N- : without reported N classification.

## Carcinoma of the Oral Cavity ----- 1064 cases

## Carcinoma of the Hard Palate

## T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	5	0	0	0	0	0	0	0	0	5
T2	6	0	0	0	0	1 *	0	0	0	7
T3	3	0	0	0	0	0	0	0	0	3
T4	0	0	0	0	0	0	0	0	0	0
T4a	5	2	0	0	2	1	0	0	0	10
T4b	1	1	0	0	0	0	0	0	0	2
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	1	1
Total	20	3	0	0	2	2	0	0	1	28

M1: one case.

\* indicates one M1 case.

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

N- : 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	0	0	0	0	0	0	0	0	0	0
T1	19	2	0	0	1	2	0	0	0	24
T2	20	3	0	0	5	1	1	0	0	30
T3	7	2	0	0	0	2	0	0	0	11
T4	4	0	0	0	1	2	0	0	0	7
T4a	7 *	4 *	0	1	2	9 *	0	0	0	23
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	3	3
Total	57	11	0	1	9	16	1	0	3	98

M1: 3 cases.

Each \* indicates one M1 case.

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

N- : without reported N classification.

## Carcinoma of the Oral Cavity ----- 1064 cases

## Carcinoma of the Tongue

## T and N status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	2	0	0	0	0	0	0	0	0	2
Tis	6	0	0	0	0	0	0	0	0	6
T1	166	4	0	0	2	0	0	0	0	172
T2	170 *	21	0	2	26	3	1 *	0	0	223
T3	30	11	0	0	21	3	0	0	1	66
T4	2	2	0	0	1	0	0	0	0	5
T4a	24	12 *	0	0	23	21	2 *	0	0	82
T4b	0	0	0	0	2	0	1	0	0	3
TX	0	0	0	0	0	0	0	1	0	1
T-	0	0	0	0	0	0	0	0	26	26
Total	400	50	0	2	75	27	4	1	27	586

M1: 4 case                      \* indicates one M1 case.

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

N- : 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	0	0	0	0	0	0	0	0	0	0
T2	1	0	0	0	0	0	0	0	0	1
T3	0	0	0	0	0	0	0	0	0	0
T4	0	0	0	0	0	0	0	0	0	0
T4a	1	2	0	0	1	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	2	2	0	0	1	0	0	0	1	6

M1: 0 case.                      NOS: not otherwise specified

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

N- : without reported N classification.



## Carcinoma of the oral cavity ----- 1064 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	1	13	1	18	10	7	13	56	3	122
With	9	78	13	125	64	19	82	506	3	899
Unknown	0	4	1	5	4	2	3	24	0	43
Radiotherapy										
Without	9	70	11	108	49	22	65	449	4	787
With	1	21	3	34	25	4	30	114	2	234
Unknown	0	4	1	6	4	2	3	23	0	43
Chemotherapy										
Without	9	68	11	105	50	22	68	447	2	782
With	1	23	3	28	24	4	29	117	4	233
Unknown	0	4	1	5	4	2	3	22	0	41
Total	10	95	15	148	78	28	98	586	6	1064

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	52	5	39	49	21	39	320	4	539
With	0	39	9	104	25	6	56	243	2	484
Unknown	0	4	1	5	4	1	3	23	0	41
Radiotherapy										
Without	10	74	11	119	61	25	75	478	5	858
With	0	17	3	24	13	1	20	86	1	165
Unknown	0	4	1	5	4	2	3	22	0	41
Chemotherapy										
Without	10	76	12	121	63	24	79	470	5	860
With	0	15	2	21	11	2	16	93	1	161
Unknown	0	4	1	6	4	2	3	23	0	43
Total	10	95	15	148	78	28	98	586	6	1064

NOS: not otherwise specified

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	(1) Lip	(2) Buccal mucosa	(3) Retro- molar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
No treatment	0	1	0	6	2	5	2	10	0	26
A) Surg. alone	9	62	11	89	42	16	57	403	1	690
CA) Chem.->Surg.	0	4	1	11	3	0	6	25	1	51
AB) Surg.->Rad.	0	3	0	6	5	1	5	16	0	36
B) Rad. alone	0	2	0	5	2	0	4	19	1	33
F) (Rad.+Chem.)	1	3	0	4	4	1	4	16	0	33
AF) Surg.->(Rad.+Chem.)	0	2	0	2	1	0	7	16	0	28
C) Chem. alone	0	3	0	2	2	1	2	7	1	18
CAF) Chem.->Surg.->(Rad.+Chem.)	0	2	1	1	0	1	1	8	0	14
FA) (Rad.+Chem.)->Surg.	0	1	0	1	4	0	1	6	0	13
G) (Surg.+Rad.+Chem.)	0	0	0	3	2	0	0	7	0	12
AC) Surg.->Chem.	0	0	0	3	0	0	0	7	1	11
CAB) Chem.->Surg.->Rad.	0	0	0	2	1	0	1	3	0	7
D) (Surg.+Rad.)	0	0	0	0	1	0	1	5	0	7
CAC) Chem.->Surg.->Chem.	0	0	0	1	1	0	1	2	0	5
CB) Chem.->Rad.	0	0	1	1	1	0	0	1	0	4
E) (Surg.+Chem.)	0	0	0	1	1	0	1	1	0	4
FC) (Rad.+Chem.)->Chem.	0	3	0	0	0	0	0	0	1	4
AA) Surg.->Surg.	0	0	0	1	0	0	0	2	0	3
Others	0	5	0	4	2	1	2	8	0	22
Unknown	0	4	1	5	4	2	3	24	0	43
Total	10	95	15	148	78	28	98	586	6	1064

NOS: not otherwise specified.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Chem.: chemotherapy.

Rad.: radiotherapy.

Carcinoma of the Oral Cavity ----- 1064 cases

## Surgical Methods for the Primary Lesion by Subsite

Surgical method	Surgical Methods for the Primary Lesion by Subsite									Total
	(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	
X0) No surgery	1	13	1	17	10	7	13	56	3	122
A1) Partial glossectomy	0	1	0	0	0	0	0	338	0	339
B2) Segmental mandibulectomy	0	3	1	61	0	0	2	0	1	68
C4) Resection of the buccal mucosa	0	59	5	0	0	0	0	0	0	64
D1) Partial maxillectomy	0	2	0	0	50	7	0	1	1	61
A5) Subtotal glossectomy	0	0	0	0	0	0	4	56	0	60
C2) Resection of the floor of mouth	0	0	0	0	0	0	60	0	0	60
B1) Marginal mandibulectomy	0	2	6	42	2	0	3	0	0	55
A2) Hemiglossectomy (movable part)	0	0	0	0	0	1	2	40	0	43
A4) Hemiglossectomy	0	0	0	0	0	0	0	30	0	30
C9) Resection of oral cavity, NOS	0	3	1	0	2	7	6	0	0	19
A3) Subtotal glossectomy (movable part)	0	0	0	0	0	0	1	17	0	18
B3) Hemimandibulectomy	0	0	0	9	0	0	0	0	1	10
C1) Resection of the lip	9	0	0	0	0	0	0	0	0	9
D2) Total maxillectomy	0	0	0	0	6	3	0	0	0	9
C3) Resection of lower gingiva	0	1	0	5	0	0	1	0	0	7
A6) Total glossectomy	0	0	0	0	0	0	0	6	0	6
Others	0	0	0	3	0	0	0	0	0	3
Unknown method	0	7	0	5	4	1	3	18	0	38
Unknown	0	4	1	6	4	2	3	24	0	43
Total	10	95	15	148	78	28	98	586	6	1064

NOS: not otherwise specified.

## Carcinoma of the Oral Cavity ----- 1064 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	52	5	39	49	21	39	320	4	539
1) Total N.D.	0	7	4	32	11	2	20	96	1	173
2) Selective N.D.	0	27	4	67	10	3	33	137	1	282
3) Lymph node excision	0	0	0	1	2	0	1	3	0	7
8) Others	0	0	0	0	1	0	0	1	0	2
Unknown type	0	5	1	4	1	1	2	6	0	20
9) Unknown	0	4	1	5	4	1	3	23	0	41
Total	10	95	15	148	78	28	98	586	6	1064

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.	10	84	14	122	69	25	61	476	6	867
1) Total N.D.	0	0	0	0	3	1	11	15	0	30
2) Selective N.D.	0	3	0	18	1	0	20	68	0	110
3) Lymph node excision	0	0	0	0	0	0	1	1	0	2
8) Others	0	0	0	0	0	0	0	0	0	0
Unknown type	0	4	0	2	1	1	2	3	0	13
9) Unknown	0	4	1	6	4	1	3	23	0	42
Total	10	95	15	148	78	28	98	586	6	1064

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Oral Cavity ----- 1064 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	3	45	5	45	47	20	44	391	3	603
D) Free RA MC flap	0	4	3	24	3	1	15	58	1	109
E) Free anterolateral thigh flap	0	11	2	11	2	0	11	38	0	75
C) Free FA flap	0	9	2	5	0	0	12	34	0	62
1) Skin graft	0	9	0	1	9	2	2	7	1	31
G) Free fibular OC flap	0	0	0	22	1	1	1	1	1	27
F) Free scapular OC flap	0	2	1	13	0	0	0	0	0	16
2) Local skin flap	7	0	0	2	1	0	1	3	0	14
5) PM MC flap	0	1	1	4	0	0	0	7	0	13
4) DP flap	0	0	0	0	0	0	0	2	0	2
3) Mucosal flap	0	0	0	1	0	0	1	0	0	2
B) Free jejunal flap	0	0	0	1	0	0	0	1	0	2
6) Free LD MC flap	0	0	0	1	0	0	0	0	0	1
8)+ Others	0	3	0	9	9	1	5	4	0	31
9) Unknown	0	11	1	9	6	3	6	40	0	76
Total	10	95	15	148	78	28	98	586	6	1064

NOS: not otherwise specified.  
 FA: forearm.  
 DP: deltopectoral.

RA: rectus abdominis.  
 OC: osteocutaneous.  
 LD: latissimus dorsi.

MC: musclocutaneous.  
 PM: pectoralis major.

**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	9	70	11	108	49	22	65	449	4	787
1) X-ray (and/or electron beam)	1	18	3	33	22	4	30	91	2	204
3) B.T.	0	0	0	0	0	0	0	12	0	12
5) X-ray + B.T.	0	1	0	0	0	0	0	4	0	5
2) Particle beam	0	0	0	0	2	0	0	1	0	3
Unknown type	0	2	0	1	1	0	0	6	0	10
9) Unknown	0	4	1	6	4	2	3	23	0	43
Total	10	95	15	148	78	28	98	586	6	1064

NOS: not otherwise specified.

B.T.: brachytherapy.

Carcinoma of the Oral Cavity ----- 1064 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	9	68	11	105	50	22	68	447	2	782
1) I.V.	0	7	2	16	6	2	14	65	4	116
3) Oral	1	9	1	18	7	2	7	39	0	84
2) I.A.	0	3	0	0	4	0	2	5	0	14
5) I.V.+Oral	0	1	0	2	1	0	1	3	0	8
6) I.A.+Oral	0	2	0	0	2	0	0	0	0	4
4) I.V.+I.A.	0	0	0	0	1	0	1	0	0	2
Unknown route	0	1	0	2	3	0	2	5	0	13
Unknown	0	4	1	5	4	2	3	22	0	41
Total	10	95	15	148	78	28	98	586	6	1064

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

**Larynx (2011)**

**566 cases**



## Carcinoma of the Larynx ----- 566 cases

## Subsite

Subsite	Number of patients (%)	
Glottis	380	( 67.1)
Supraglottis	149	( 26.3)
Subglottis	24	( 4.3)
Larynx, NOS	13	( 2.3)
Total	566	(100.0)

## 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	0	3
40 - 49	12	1	13
50 - 59	61	5	66
60 - 69	206	11	217
70 - 79	176	11	187
80 - 89	71	7	78
90 -	2	0	2
Total	531	35	566

## Carcinoma of the Larynx ----- 566 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	3	0	3
40 - 49	7	1	8
50 - 59	39	2	41
60 - 69	134	6	140
70 - 79	126	5	131
80 - 89	53	2	55
90 -	2	0	2
Total	364	16	380

## 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	0	0	0
40 - 49	3	0	3
50 - 59	15	2	17
60 - 69	56	5	61
70 - 79	42	5	47
80 - 89	16	5	21
90 -	0	0	0
Total	132	17	149

## Carcinoma of the Larynx ----- 566 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	1	0	1
50 - 59	7	1	8
60 - 69	7	0	7
70 - 79	5	1	6
80 - 89	2	0	2
90 -	0	0	0
Total	22	2	24

## Carcinoma of the Larynx, NOS

## Age Distribution by Gender

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

NOS: not otherwise specified.

## Carcinoma of the Larynx ----- 566 cases

## Histological Distribution by Subsite

Histologic type	Glottis (C32.0)	Supraglottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Adenocarcinoma, NOS	1	0	0	0	1
Adenoid cystic ca.	0	0	1	0	1
Adenosquamous ca.	0	1	0	0	1
Basaloid S.C.C.	1	0	0	0	1
Ca., undiff., NOS	0	0	1	0	1
Mucoepidermoid ca.	1	0	0	0	1
Papillary S.C.C.	2	0	0		2
Spindle cell ca., NOS	1	2	0	0	3
S.C.C. in situ, NOS	10	2	0	0	12
S.C.C. kerat., NOS	31	12	0	2	45
S.C.C. large cell, nonkerat.	0	1	0	0	1
S.C.C. microinvasive	2	0	0	0	2
S.C.C., NOS	318	129	22	11	480
S.C.C., small cell, nonkerat.	0	1	0	0	1
S.C.C. spindle cell	13	1	0	0	14
Total	380	149	24	13	566

NOS: not otherwise specified.  
undiff.: undifferentiated.

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

S.C.C.: squamous cell carcinoma.  
nonkerat.: nonkeratinizing.

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0
Tis	9	0	0	0	0	0	0	0	0	0	9
T1	24	1	0	0	2	1	1	0	0	0	29
T1a	124	0	0	0	0	0	0	0	0	2	126
T1b	37	0	0	0	0	0	0	0	0	0	37
T2	125	1	1	1	12	12 *	1	0	0	2	155
T3	79	21	1	0	18 *	8 *	0	0	0	0	127
T4	4	0	0	0	3	3	0	0	0	0	10
T4a	32 *	5	0	2	3	12 *	1	0	1	1	57
T4b	0	0	0	0	0	1 *	0	0	0	0	1
TX	0	0	0	0	0	0	0	0	0	0	0
T-	3	0	0	0	0	0	0	0	0	12	15
Total	437	28	2	3	38	37	3	0	1	17	566

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

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

N-: without reported N classification.

## Carcinoma of the Larynx ----- 566 cases

**Glottic carcinoma****T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0
Tis	7	0	0	0	0	0	0	0	0	0	7
T1	10	0	0	0	0	1	0	0	0	0	11
T1a	124	0	0	0	0	0	0	0	0	2	126
T1b	37	0	0	0	0	0	0	0	0	0	37
T2	88	0	1	0	0	1	0	0	0	2	92
T3	46	8	0	0	9	2	0	0	0	0	65
T4	4	0	0	0	2	0	0	0	0	0	6
T4a	18 *	2	0	1	2	2	1	0	0	0	26
T4b	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0	0
T-	2	0	0	0	0	0	0	0	0	8	10
<b>Total</b>	<b>336</b>	<b>10</b>	<b>1</b>	<b>1</b>	<b>13</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>380</b>

M1: 1 case. \* indicates one M1 case.

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

N-: without reported N classification.

**Supraglottic Carcinoma****T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0
Tis	2	0	0	0	0	0	0	0	0	0	2
T1	9	1	0	0	2	0	1	0	0	0	13
T2	31	1	0	1	11	11 *	1	0	0	0	56
T3	28	13	1	0	8	6 *	0	0	0	0	56
T4	0	0	0	0	1 *	2	0	0	0	0	3
T4a	4	3	0	0	1	8 *	0	0	0	0	16
T4b	0	0	0	0	0	1 *	0	0	0	0	1
TX	0	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	2	2
<b>Total</b>	<b>74</b>	<b>18</b>	<b>1</b>	<b>1</b>	<b>23</b>	<b>28</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>149</b>

M1: 5 case. Each \* indicates one M1 case.

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

N-: without reported N classification.

## Carcinoma of the Larynx ----- 566 cases

**Subglottic Carcinoma****T and N Status**

	N0	N1	N2	N2a	N2b	N2c	N3	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0
T1	3	0	0	0	0	0	0	0	0	0	3
T2	6	0	0	0	1	0	0	0	0	0	7
T3	5	0	0	0	0	0	0	0	0	0	5
T4	0	0	0	0	0	0	0	0	0	0	0
T4a	6	0	0	0	0	0	0	0	1	0	7
T4b	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0	0
T-	1	0	0	0	0	0	0	0	0	1	2
<b>Total</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>24</b>

M1: 0 case.

T-: not within defined T classification or 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	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0
T1	2	0	0	0	0	0	0	0	0	0	2
T2	0	0	0	0	0	0	0	0	0	0	0
T3	0	0	0	0	1	0	0	0	0	0	1
T4	0	0	0	0	0	1	0	0	0	0	1
T4a	4	0	0	1	0	1	0	0	1	0	7
T4b	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	1	0	0	0	0	0	1
T-	0	0	0	0	0	0	0	0	1	0	1
<b>Total</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>13</b>

M1: 0 case.

NOS: not otherwise specified.

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

N-: without reported N classification.

## Carcinoma of the larynx ----- 566 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	271	92	11	7	381
With	102	56	13	6	177
Unknown	7	1	0	0	8
Radiotherapy					
Without	92	50	12	6	160
With	280	99	12	7	398
Unknown	8	0	0	0	8
Chemotherapy					
Without	285	86	17	9	397
With	90	63	7	4	164
Unknown	5	0	0	0	5
Total	380	149	24	13	566

NOS: not otherwise specified.

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

Sequence of treatment methods	Glottis (C32.0)	Supra-glottis (C32.1) (C10.3)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
No treatment	10	4	1	1	16
B) Rad. alone	188	31	3	2	224
A) Surg. alone	75	45	11	5	136
F) (Rad.+Chem.)	63	41	7	2	113
CF) Chem.->(Rad.+Chem.)	6	8	0	2	16
AB) Surg.->Rad.	5	5	2	0	12
CA) Chem.->Surg.	7	1	0	0	8
BA) Rad.->Surg.	6	1	0	0	7
FC) (Rad.+Chem.)->Chem.	1	5	0	0	6
FA) (Rad.+Chem.)->Surg.	2	1	0	0	3
AF) Surg.->(Rad.+Chem.)	1	1	0	0	2
AFC) Surg.->(Rad.+Chem.)->Chem.	1	1	0	0	2
CAF) Chem.->Surg.->(Rad.+Chem.)	1	1	0	0	2
D) (Surg.+Rad.)	1	0	0	1	2
G) (Surg.+Rad.+Chem.)	2	0	0	0	2
Others	4	2	0	0	6
Unknown	7	2	0	0	9
Total	380	149	24	13	566

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the larynx ----- 566 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	157	127	62	21	0	3	375
With	0	4	34	27	65	46	0	7	183
Unknown	0	1	1	0	0	1	0	5	8
Radiotherapy									
Without	0	4	33	19	57	43	0	4	160
With	0	5	159	135	70	23	0	6	398
Unknown	0	0	0	1	0	2	0	5	8
Chemotherapy									
Without	0	9	178	77	79	47	0	7	397
With	0	0	14	78	48	21	0	3	164
Unknown	0	0	0	0	0	0	0	5	5
Total	0	9	192	155	127	68	0	15	566

T-: not within defined T classification or 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	5	1	5	5	0	0	16
B) Rad. alone	0	5	142	54	18	3	0	2	224
A) Surg. alone	0	4	29	16	50	33	0	4	136
F) (Rad.+Chem.)	0	0	9	63	33	7	0	1	113
CF) Chem.->(Rad.+Chem.)	0	0	2	6	6	2	0	0	16
AB) Surg.->Rad.	0	0	2	3	3	3	0	1	12
CA) Chem.->Surg.	0	0	0	1	4	3	0	0	8
BA) Rad.->Surg.	0	0	2	3	2	0	0	0	7
FC) (Rad.+Chem.)->Chem.	0	0	0	4	0	2	0	0	6
FA) (Rad.+Chem.)->Surg.	0	0	0	2	0	0	0	1	3
AF) Surg.->(Rad.+Chem.)	0	0	0	0	1	1	0	0	2
AFC) Surg.->(Rad.+Chem.)->Chem.	0	0	0	0	0	2	0	0	2
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	2	0	0	0	2
D) Surg.+Rad.	0	0	0	0	0	1	0	1	2
G) (Surg.+Rad.+Chem.)	0	0	0	1	0	1	0	0	2
Others	0	0	0	0	3	3	0	0	6
Unknown	0	0	1	1	0	2	0	5	9
Total	0	9	192	155	127	68	0	15	566

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

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.



## Carcinoma of the larynx ----- 566 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	5	7	107	33	75	33	8	0	2	270
With	0	2	4	19	4	16	32	23	0	3	103
Unknown	0	0	0	0	0	1	0	1	0	5	7
Radiotherapy											
Without	0	2	4	21	3	8	30	22	0	2	92
With	0	5	7	105	34	83	35	8	0	3	280
Unknown	0	0	0	0	0	1	0	2	0	5	8
Chemotherapy											
Without	0	7	9	120	34	52	38	21	0	4	285
With	0	0	2	6	3	40	27	11	0	1	90
Unknown	0	0	0	0	0	0	0	0	0	5	5
Total	0	7	11	126	37	92	65	32	0	10	380

T-: not within defined T classification or 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	4	0	0	3	2	0	0	10
B) Rad. alone	0	5	4	101	30	41	8	1	0	2	192
A) Surg. alone	0	2	3	18	4	10	23	17	0	2	79
F) (Rad.+Chem.)	0	0	1	3	3	35	17	4	0	0	63
CA) Chem.->Surg.	0	0	1	0	0	1	5	2	0	0	9
CF) Chem.->(Rad.+Chem.)	0	0	1	0	0	0	5	0	0	0	6
BA) Rad.->Surg.	0	0	0	0	0	0	2	0	0	0	2
FA) (Rad.+Chem.)->Surg.	0	0	0	0	0	2	0	0	0	0	2
AF) Surg.->(Rad.+Chem.)	0	0	0	0	0	0	0	2	0	0	2
AB) Surg.->Rad.	0	0	0	0	0	0	1	0	0	0	1
FC) (Rad.+Chem.)->Chem.	0	0	0	0	0	1	0	0	0	0	1
D) (Surg.+Rad.)	0	0	0	0	0	0	0	0	0	1	1
G) (Surg.+Rad.+Chem.)	0	0	0	0	0	1	0	1	0	0	2
Others	0	0	0	0	0	0	1	2	0	0	3
Unknown	0	0	0	0	0	1	0	1	0	5	7
Total	0	7	11	126	37	92	65	32	0	10	380

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

Rad.: radiotherapy.

Surg.: surgery.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the larynx ----- 566 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	6	46	27	9	0	0	88
With	0	2	6	10	29	11	0	2	60
Unknown	0	0	1	0	0	0	0	0	1
Radiotherapy									
Without	0	2	4	10	23	10	0	1	50
With	0	0	9	46	33	10	0	1	99
Unknown	0	0	0	0	0	0	0	0	0
Chemotherapy									
Without	0	2	10	24	36	13	0	1	86
With	0	0	3	32	20	7	0	1	63
Unknown	0	0	0	0	0	0	0	0	0
Total	0	2	13	56	56	20	0	2	149

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

## Supraglottic Carcinoma

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

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	1	2	1	0	0	4
A) Surg. alone	0	2	4	8	23	7	0	1	45
F) (Rad.+Chem.)	0	0	2	22	15	2	0	0	41
B) Rad. Alone	0	0	4	15	9	3	0	0	31
CF) Chem.->(Rad.+Chem.)	0	0	1	6	1	0	0	0	8
AB) Surg.->Rad.	0	0	1	0	2	2	0	0	5
FC) (Rad.+Chem.)->Chem.	0	0	0	3	0	2	0	0	5
Others	0	0	0	1	4	2	0	1	8
Unknown	0	0	1	0	0	1	0	0	2
Total	0	2	13	56	56	20	0	2	149

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

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the larynx ----- 566 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	2	6	2	1	0	0	11
With	0	0	1	1	3	6	0	2	13
Unknown	0	0	0	0	0	0	0	0	0
Radiotherapy									
Without	0	0	1	1	3	6	0	1	12
With	0	0	2	6	2	1	0	1	12
Unknown	0	0	0	0	0	0	0	0	0
Chemotherapy									
Without	0	0	3	1	4	7	0	2	17
With	0	0	0	6	1	0	0	0	7
Unknown	0	0	0	0	0	0	0	0	0
Total	0	0	3	7	5	7	0	2	24

T-: not within defined T classification or 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	1	0	0	1
A) Surg. alone	0	0	1	1	3	5	0	1	11
F) (Rad.+Chem.)	0	0	0	6	1	0	0	0	7
B) Rad. alone	0	0	2	0	1	0	0	0	3
AB) Surg.->Rad.	0	0	0	0	0	1	0	1	2
Total	0	0	3	7	5	7	0	2	24

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

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the larynx ——— 566 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	2	0	0	3	0	1	6
With	0	0	0	0	1	6	0	0	7
Unknown	0	0	0	0	0	0	0	0	0
Radiotherapy									
Without	0	0	0	0	1	5	0	0	6
With	0	0	2	0	0	4	0	1	7
Unknown	0	0	0	0	0	0	0	0	0
Chemotherapy									
Without	0	0	2	0	1	6	0	0	9
With	0	0	0	0	0	3	0	1	4
Unknown	0	0	0	0	0	0	0	0	0
Total	0	0	2	0	1	9	0	1	13

NOS: not otherwise specified.

T-: not within defined T classification or 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	0	1	0	0	1
A) Surg. alone	0	0	0	0	1	4	0	0	5
B) Rad. alone	0	0	2	0	0	0	0	0	2
CF) Chem.->(Rad.+Chem.)	0	0	0	0	0	2	0	0	2
F) (Rad.+Chem.)	0	0	0	0	0	1	0	1	2
D) (Surg.+Rad.)	0	0	0	0	0	1	0	0	1
Total	0	0	2	0	1	9	0	1	13

NOS: not otherwise specified.

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

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Larynx ----- 566 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	271	92	11	7	381
G5)	Total laryngectomy	56	39	10	6	111
G2)	Transoral resection	26	4	1	0	31
G3)	Partial laryngectomy	6	2	0	0	8
F1) G1)	Endoscopic resection	5	3	0	0	8
F5)	Total pharyngolaryngectomy	2	5	0	0	7
G4)	Subtotal laryngectomy	2	0	0	0	2
G9)	Laryngectomy, other type	2	0	0	0	2
	Unknown method	3	3	2	0	8
	Unknown	7	1	0	0	8
Total		380	149	24	13	566

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	159	128	64	22	0	3	381
G5)	Total laryngectomy	0	0	1	11	56	42	0	1	111
G2)	Transoral resection	0	3	19	8	0	0	0	1	31
G3)	Partial laryngectomy	0	0	3	3	2	0	0	0	8
F1) G1)	Endoscopic resection	0	1	5	1	0	0	0	1	8
F5)	Total pharyngolaryngectomy	0	0	1	0	3	3	0	0	7
G4)	Subtotal laryngectomy	0	0	0	1	1	0	0	0	2
G9)	Laryngectomy, other type	0	0	2	0	0	0	0	0	2
	Unknown method	0	0	1	1	2	0	0	4	8
	Unknown	0	0	1	1	0	1	0	5	8
Total		0	9	192	154	128	68	0	15	566

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

## Carcinoma of the Larynx ----- 566 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	5	147	75	34	8	0	2	271
G5)	Total laryngectomy	0	0	1	6	27	22	0	0	56
G2)	Transoral resection	0	2	17	6	0	0	0	1	26
G3)	Partial laryngectomy	0	0	2	2	2	0	0	0	6
F1) G1)	Endoscopic resection	0	0	3	1	0	0	0	1	5
F5)	Total pharyngolaryngectomy	0	0	1	0	0	1	0	0	2
G4)	Subtotal laryngectomy	0	0	0	1	1	0	0	0	2
G9)	Laryngectomy, other type	0	0	2	0	0	0	0	0	2
	Unknown method	0	0	1	0	1	0	0	1	3
	Unknown	0	0	0	1	0	1	0	5	7
Total		0	7	174	92	65	32	0	10	380

T-: not within defined T classification or 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	8	47	28	9	0	0	92
G5)	Total laryngectomy	0	0	0	5	25	9	0	0	39
F5)	Total pharyngolaryngectomy	0	0	0	1	2	2	0	0	5
G2)	Transoral resection	0	1	1	2	0	0	0	0	4
F1) G1)	Endoscopic resection	0	1	2	0	0	0	0	0	3
G3)	Partial laryngectomy	0	0	1	1	0	0	0	0	2
	Unknown method	0	0	0	0	1	0	0	2	3
	Unknown	0	0	1	0	0	0	0	0	1
Total		0	2	13	56	56	20	0	2	149

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

## Carcinoma of the Larynx ----- 566 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	2	6	2	1	0	0	11
G5)	Total laryngectomy	0	0	0	0	3	6	0	1	10
G2)	Transoral resection	0	0	1	0	0	0	0	0	1
	Unknown method	0	0	0	1	0	0	0	1	2
Total		0	0	3	7	5	7	0	2	24

T-: not within defined T classification or 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	2	0	0	4	0	1	7
G5)	Total laryngectomy	0	0	0	0	1	5	0	0	6
Total		0	0	2	0	1	9	0	1	13

NOS: not otherwise specified.

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

## Carcinoma of the larynx ----- 566 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	324	98	13	6	441
With	51	50	11	7	119
Unknown	5	1	0	0	6
Radiotherapy					
Without	330	93	19	6	448
With	44	56	5	7	112
Unknown	6	0	0	0	6
Chemotherapy					
Without	334	103	21	9	467
With	39	46	3	4	92
Unknown	7	0	0	0	7
<b>Total</b>	<b>380</b>	<b>149</b>	<b>24</b>	<b>13</b>	<b>566</b>

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.	324	98	13	6	441
1) Total N.D.	6	9	0	0	15
2) Selective N.D.	43	38	9	7	97
3) Lymph node excision	0	0	0	0	0
8) Others	1	0	0	0	1
Unknown type	1	3	2	0	6
9) Unknown	5	1	0	0	6
<b>Total</b>	<b>380</b>	<b>149</b>	<b>24</b>	<b>13</b>	<b>566</b>

NOS: not otherwise specified.

N.D.: neck dissection.



## Carcinoma of the Larynx ----- 566 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.	346	116	14	8	484
1) Total N.D.	0	3	0	0	3
2) Selective N.D.	27	27	8	5	67
3) Lymph node excision	0	0	0	0	0
8) Others	1	0	0	0	1
Unknown type	1	2	1	0	4
9) Unknown	5	1	1	0	7
<b>Total</b>	<b>380</b>	<b>149</b>	<b>24</b>	<b>13</b>	<b>566</b>

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	367	142	23	13	545
B) Free jejunal flap	2	5	0	0	7
5) PM MC flap	1	0	1	0	2
2) Local skin flap	1	0	0	0	1
3) Mucosal flap	1	0	0	0	1
C) Free FA flap	1	0	0	0	1
D) Free RA MC flap	0	1	0	0	1
Unknown	7	1	0	0	8
<b>Total</b>	<b>380</b>	<b>149</b>	<b>24</b>	<b>13</b>	<b>566</b>

NOS: not otherwise specified.

PM: pectoralis major.

MC: musculocutaneous.

FA: forearm.

RA: rectus abdominis.

## Carcinoma of the Larynx ----- 566 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	92	50	12	6	160
1) X-ray (and/or electron beam)	275	96	12	5	388
Unknown type	5	3	0	2	10
9) Unknown	8	0	0	0	8
Total	380	149	24	13	566

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	285	86	17	9	397
1) Intravenous	64	53	7	2	126
3) Oral	19	1	0	0	20
2) Intraarterial	3	4	0	0	7
5) Intravenous+Oral	1	2	0	1	4
4) Intravenous+Intraarterial	0	0	0	1	1
Unknow route	3	3	0	0	6
9) Unknown	5	0	0	0	5
Total	380	149	24	13	566

NOS: not otherwise specified.

## Hypopharynx (2011)

637 cases

## Carcinoma of the Hypopharynx ----- 637 cases

## Subsite

Subite	Number of patients (%)	
Postericoid	58	( 9.1)
Pyriform sinus	474	( 74.4)
Posterior wall	80	( 12.6)
Hypopharynx, NOS	25	( 3.9)
Total	637	(100.0)

## 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	18	6	24
50 - 59	81	7	88
60 - 69	262	18	280
70 - 79	179	9	188
80 - 89	45	5	50
90 -	3	0	3
Total	591	46	637

## Carcinoma of the Hypopharynx ----- 637 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	0	0	0
40 - 49	2	2	4
50 - 59	7	0	7
60 - 69	22	4	26
70 - 79	11	3	14
80 - 89	6	0	6
90 -	1	0	1
Total	49	9	58

## 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	3	1	4
40 - 49	15	4	19
50 - 59	62	4	66
60 - 69	201	11	212
70 - 79	131	2	133
80 - 89	34	4	38
90 -	2	0	2
Total	448	26	474

## Carcinoma of the Hypopharynx ----- 637 cases

## Posterior wall

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	10	3	13
60 - 69	30	1	31
70 - 79	28	4	32
80 - 89	2	1	3
90 -	0	0	0
Total	71	9	80

## 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	0	0	0
50 - 59	2	0	2
60 - 69	9	2	11
70 - 79	9	0	9
80 - 89	3	0	3
90 -	0	0	0
Total	23	2	25

## Carcinoma of the Hypopharynx ----- 637 cases

## Histological Distribution by Subsite

Histologic type	Posterioroid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypophar- ynx, NOS (C32.9)	Total
Adenosquamous ca.	0	2	0	0	2
Basal cell carcinoma, NOS	0	1	0	0	1
Basaloid S.C.C.	0	3	1	0	4
Carcinoma, NOS	0	0	1	0	1
Lymphoepithelial carcinoma	0	0	1	0	1
Small cell ca., NOS	0	1	0	0	1
Small cell ca., NOS	0	2	0	0	2
S.C.C. in situ with quest. stromal invasion	0	1	0	0	1
S.C.C. in situ, NOS	1	24	6	1	32
S.C.C. kerat., NOS	3	26	2	1	32
S.C.C. large cell, nonkerat.	1	0	0	0	1
S.C.C. microinvasive	0	2	1	0	3
S.C.C., NOS	53	412	68	23	556
Total	58	474	80	25	637

NOS: not otherwise specified.

S.C.C.: squamous cell carcinoma.

kerat.: keratinizing.

ca.: carcinoma.

quest.: questionable.

nonkerat.: nonkeratinizing.

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
Tis	24	0	0	0	0	0	0	0	0	24
T1	58	4	1	1	7	3	1 (1)	0	0	75
T2	61	27	0	7	68 (1)	16 (3)	11	0	1	191
T3	41	15	0	5	44 (2)	19	9 (3)	0	1	134
T4	7	2	3	1	6	5	1	0	1	26
T4a	24 (2)	22 (1)	0	1	48 (2)	56 (4)	4 (1)	0	0	155
T4b	3	0	0	0	6 (1)	1 (1)	2	0	0	12
TX	0	0	0	0	0	0	0	0	0	0
T-	6	0	0	0	3	0	0	0	11	20
Total	224	70	4	15	182	100	28	0	14	637

M1: 22 cases. Numbers in parenthesis indicate numbers of M1 cases.

T-: without reported T classification.

N-: without reported N classification.

## Carcinoma of the Hypopharynx ----- 637 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	1	0	0	0	0	1	0	0	0	2
T2	10	3	0	1	7	2	1	0	0	24
T3	7	1	0	0	4	3	2 *	0	0	17
T4	0	0	0	0	0	0	0	0	1	1
T4a	3	1	0	0	0	7	0	0	0	11
T4b	0	0	0	0	0	1	0	0	0	1
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0
Total	23	5	0	1	11	14	3	0	1	58

M1: 1 case. \* 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
Tis	20	0	0	0	0	0	0	0	0	20
T1	43	4	1	1	5	1	1 *	0	0	56
T2	39	22	0	3	55 *	12 ***	9	0	1	141
T3	24	11	0	4	37 **	12	6 **	0	0	94
T4	7	1	3	0	6	5	1	0	0	23
T4a	15 *	19 *	0	1	44 **	36 ***	3	0	0	118
T4b	2	0	0	0	3	1	0	0	0	6
TX	0	0	0	0	0	0	0	0	0	0
T-	6	0	0	0	2	0	0	0	8	16
Total	156	57	4	9	152	67	20	0	9	474

M1: 16 cases. Each\* signifies one M1 case.

T-: without reported T classification.

N-: without reported N classification.



## Carcinoma of the Hypopharynx ----- 637 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	14	0	0	0	2	1	0	0	0	17
T2	11	2	0	3	5	2	1	0	0	24
T3	6	2	0	0	3	4	1	0	0	16
T4	0	0	0	0	0	0	0	0	0	0
T4a	4	0	0	0	3	9	1 *	0	0	17
T4b	1	0	0	0	1	1 *	0	0	0	3
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	1	0	0	0	0	1
Total	38	4	0	3	15	17	3	0	0	80

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	0	0	0	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0	0	0	0
T2	1	0	0	0	1	0	0	0	0	2
T3	4	1	0	1	0	0	0	0	1	7
T4	0	1	0	1	0	0	0	0	0	2
T4a	2 *	2	0	0	1	4 *	0	0	0	9
T4b	0	0	0	0	2 *	0	0	0	0	2
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	3	3
Total	7	4	0	2	4	4	0	0	4	25

NOS: not otherwise specified.

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

T-: without reported T classification.

N-: without reported N classification.

## Carcinoma of the Hypopharynx ----- 637 cases

## Treatment Method for the Primary Lesion by Subsite

Treatment method	Postericoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
Without	36	247	46	9	338
With	22	221	33	12	288
Unknown	0	6	1	4	11
Radiotherapy					
Without	16	172	30	10	228
With	42	293	48	12	395
Unknown	0	9	2	3	14
Chemotherapy					
Without	20	223	40	8	291
With	38	243	39	14	334
Unknown	0	8	1	3	12
Total	58	474	80	25	637

NOS: not otherwise specified.

## Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment method	Postericoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
Without	34	267	58	12	371
With	22	195	22	11	250
Unknown	2	12	0	2	16
Radiotherapy					
Without	22	209	38	12	281
With	35	255	41	10	341
Unknown	1	10	1	3	15
Chemotherapy					
Without	23	236	42	9	310
With	35	226	37	12	310
Unknown	0	12	1	4	17
Total	58	474	80	25	637

NOS: not otherwise specified.

## Carcinoma of the Hypopharynx ----- 637 cases

## Postcricoid

## Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
<b>Surgery</b>									
Without	0	0	0	20	9	7	0	0	36
With	0	2	2	4	8	6	0	0	22
Unknown	0	0	0	0	0	0	0	0	0
<b>Radiotherapy</b>									
Without	0	1	1	2	8	4	0	0	16
With	0	1	1	22	9	9	0	0	42
Unknown	0	0	0	0	0	0	0	0	0
<b>Chemotherapy</b>									
Without	0	1	1	6	8	4	0	0	20
With	0	1	1	18	9	9	0	0	38
Unknown	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>24</b>	<b>17</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>58</b>

T-: without reported T classification.

## Pyriform sinus

## Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
<b>Surgery</b>									
Without	0	0	26	99	45	70	0	7	247
With	0	20	30	42	49	76	0	4	221
Unknown	0	0	0	0	0	1	0	5	6
<b>Radiotherapy</b>									
Without	0	20	29	33	33	52	0	5	172
With	0	0	27	108	61	91	0	6	293
Unknown	0	0	0	0	0	4	0	5	9
<b>Chemotherapy</b>									
Without	0	20	40	56	40	62	0	5	223
With	0	0	16	85	54	83	0	5	243
Unknown	0	0	0	0	0	2	0	6	8
<b>Total</b>	<b>0</b>	<b>20</b>	<b>56</b>	<b>141</b>	<b>94</b>	<b>147</b>	<b>0</b>	<b>16</b>	<b>474</b>

T-: without reported T classification.

## Carcinoma of the Hypopharynx ----- 637 cases

## Posterior wall

## Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
<b>Surgery</b>									
Without	0	1	6	15	10	13	0	1	46
With	0	1	11	8	6	6	0	1	33
Unknown	0	0	0	0	0	1	0	0	1
<b>Radiotherapy</b>									
Without	0	2	10	10	2	6	0	0	30
With	0	0	7	14	13	13	0	1	48
Unknown	0	0	0	0	1	1	0	0	2
<b>Chemotherapy</b>									
Without	0	2	14	11	4	9	0	0	40
With	0	0	3	13	12	10	0	1	39
Unknown	0	0	0	0	0	1	0	0	1
<b>Total</b>	<b>0</b>	<b>2</b>	<b>17</b>	<b>24</b>	<b>16</b>	<b>20</b>	<b>0</b>	<b>1</b>	<b>80</b>

T-: without reported T classification.

## Carcinoma of the Hypopharynx, NOS

## Treatment Method for the Primary Lesion by T Classification

Treatment method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
<b>Surgery</b>									
Without	0	0	0	1	1	7	0	0	9
With	0	0	0	1	5	4	0	2	12
Unknown	0	0	0	0	1	2	0	1	4
<b>Radiotherapy</b>									
Without	0	0	0	1	4	3	0	2	10
With	0	0	0	1	2	9	0	0	12
Unknown	0	0	0	0	1	1	0	1	3
<b>Chemotherapy</b>									
Without	0	0	0	0	3	3	0	2	8
With	0	0	0	2	3	9	0	0	14
Unknown	0	0	0	0	1	1	0	1	3
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>7</b>	<b>13</b>	<b>0</b>	<b>3</b>	<b>25</b>

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 637 cases

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

Sequence of treatment methods	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
No treatment	1	11	5	0	17
A) Surg. alone	12	136	24	4	176
F) (Rad.+Chem.)	18	116	18	4	156
B) Rad. alone	6	54	6	1	67
CF) Chem.->(Rad.+Chem.)	5	33	8	2	48
CA) Chem.->Surg.	1	19	2	1	23
AB) Surg.->Rad.	1	17	2	2	22
AF) Surg.->(Rad.+Chem.)	4	10	1	1	16
FC) (Rad.+Chem.)->Chem.	2	9	4	0	15
CAF) Chem.->Surg.->(Rad.+Chem.)	1	11	0	2	14
C) Chem. alone	3	9	0	1	13
CAB) Chem.->Surg.->Rad.	2	6	0	0	8
AC) Surg.->Chem.	0	6	0	0	6
CB) Chem.->Rad.	0	2	3	0	5
AA) Surg.->Surg.	0	3	1	0	4
AFC) Surg->(Rad.+Chem.)->Chem.	0	1	2	0	3
E) (Surg.+Chem.)	0	2	0	1	3
FA) (Rad.+Chem.)->Surg.	0	3	0	0	3
G) (Surg.+Rad.+Chem.)	0	3	0	0	3
Others	2	14	2	2	20
Unknown	0	9	2	4	15
Total	58	474	80	25	637

NOS: not otherwise specified.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

Rad.: radiotherapy.

Chem.: chemotherapy.

## Carcinoma of the Hypopharynx ----- 637 cases

## Postcricoid

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

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	0	0	0	1	0	0	0	1
F) (Rad.+Chem.)	0	0	0	12	4	2	0	0	18
A) Surg. alone	0	1	1	3	5	2	0	0	12
B) Rad. alone	0	0	0	4	1	1	0	0	6
CF) Chem.->(Rad.+Chem.)	0	0	0	3	1	1	0	0	5
AF) Surg.->(Rad.+Chem.)	0	1	0	1	0	2	0	0	4
C) Chem. alone	0	0	0	0	1	2	0	0	3
CAB) Chem.->Surg.->Rad.	0	0	0	0	2	0	0	0	2
FC) (Rad.+Chem.)->Chem.	0	0	0	1	0	1	0	0	2
Others	0	0	1	0	2	2	0	0	5
Total	0	2	2	24	17	13	0	0	58

T-: without reported T classification.

Rad.: radiotherapy.

Chem.: chemotherapy.

Surg.: surgery.

Treatment methods in parentheses were given concurrently.

## 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	3	0	6	0	1	11
A) Surg. alone	0	20	26	23	27	38	0	2	136
F) (Rad.+Chem)	0	0	11	58	19	24	0	4	116
B) Rad. alone	0	0	12	21	11	9	0	1	54
CF) Chem.->(Rad.+Chem.)	0	0	1	11	7	14	0	0	33
CA) Chem.->Surg.	0	0	1	4	6	8	0	0	19
AB) Surg.->Rad.	0	0	1	5	3	7	0	1	17
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	0	1	4	6	0	0	11
AF) Surg.->(Rad.+Chem.)	0	0	0	2	5	3	0	0	10
C) Chem. alone	0	0	0	2	3	4	0	0	9
FC) (Rad.+Chem.)->Chem.	0	0	0	2	1	6	0	0	9
AC) Surg.->Chem.	0	0	1	0	1	3	0	1	6
CAB) Chem.->Surg.->Rad.	0	0	0	1	0	5	0	0	6
AA) Sug.->Surg.	0	0	1	1	0	1	0	0	3
FA) (Rad.+Chem.)->Surg.	0	0	0	1	1	1	0	0	3
G) (Surg.+Rad.+Chem)	0	0	0	2	0	1	0	0	3
Others	0	0	1	3	6	8	0	1	19
Unknown	0	0	0	1	0	3	0	5	9
Total	0	20	56	141	94	147	0	16	474

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

## Carcinoma of the Hypopharynx ----- 637 cases

## Posterior wall

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

Sequence of treatment methods	T0	Tis	T1	T2	T3	T4	TX	T-	Total
No treatment	0	1	0	2	0	2	0	0	5
A) Surg. alone	0	1	10	7	2	4	0	0	24
F) (Rad.+Chem.)	0	0	3	7	4	4	0	0	18
CF) Chem.->(Rad.+Chem.)	0	0	0	5	1	2	0	0	8
B) Rad. alone	0	0	2	0	2	2	0	0	6
FC) (Rad. +Chem.)->Chem.	0	0	0	0	1	2	0	1	4
CB) Chem.->Rad.	0	0	0	1	2	0	0	0	3
AB) Surg.->Rad.	0	0	1	0	0	1	0	0	2
AFC) Surg.->(Rad.+Chem.)->Chem.	0	0	0	0	2	0	0	0	2
CA) Chem.->Surg.	0	0	0	0	1	1	0	0	2
Others	0	0	0	2	1	1	0	0	4
Unknown	0	0	1	0	0	1	0	0	2
Total	0	2	17	24	16	20	0	1	80

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

## 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	0	0	0	0
A) Surg. alone	0	0	0	0	2	0	0	2	4
F) (Rad.+Chem.)	0	0	0	1	0	3	0	0	4
CF) Chem.->(Rad.+Chem.)	0	0	0	0	0	2	0	0	2
AB) Surg.->Rad.	0	0	0	0	0	2	0	0	2
CAF) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	1	1	0	0	2
Others	0	0	0	1	3	3	0	0	7
Unknown	0	0	0	0	1	2	0	1	4
Total	0	0	0	2	7	13	0	3	25

NOS: not otherwise defined.

T-: without reported T classification.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

**Surgical Method for the Primary Lesion by Subsite**

Surgical method	Postcricoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
X0) No surgery	36	247	46	9	338
F5) Total pharyngolaryngectomy	9	99	8	4	120
F1) Endoscopic resection	3	38	7	1	49
F6) Total pharyngolaryngo- esophagectomy	5	36	3	3	47
F3) Partial hypopharyngectomy	0	21	4	0	25
F2) Transoral resection	0	14	6	1	21
F4) Total Laryngectomy +Partial pharyngectomy	1	6	1	0	8
F7) Hypopharyngectomy +Cervical esophagectomy	0	2	1	1	4
F9)+ Others	0	0	2	0	2
Unknown method	4	5	1	2	12
Unknown	0	6	1	4	11
Total	58	474	80	25	637

NOS: not otherwise specified



Carcinoma of the Hypopharynx ----- 637 cases

**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	32	135	65	97	0	8	338
F5) Total pharyngolaryngectomy	0	0	1	19	41	58	0	1	120
F1) Endoscopic resection	0	23	20	5	1	0	0	0	49
F6) Total pharyngolaryngo- esophagectomy	0	0	1	4	16	26	0	0	47
F3) Partial hypopharyngectomy	0	0	5	14	2	3	0	1	25
F2) Transoral resection	0	0	12	8	1	0	0	0	21
F4) Total Laryngectomy +Partial pharyngectomy	0	0	1	3	3	1	0	0	8
F7) Hypopharyngectomy +Cervical esophagectomy	0	0	1	0	0	3	0	0	4
F9)+ Others	0	0	2	0	0	0	0	0	2
Unknown method	0	0	0	3	4	1	0	4	12
Unknown	0	0	0	0	1	4	0	6	11
<b>Total</b>	<b>0</b>	<b>24</b>	<b>75</b>	<b>191</b>	<b>134</b>	<b>193</b>	<b>0</b>	<b>20</b>	<b>637</b>

NOS: not otherwise specified.

T-: without reported T classification.

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	0	20	9	7	0	0	36
F5) Total pharyngolaryngectomy	0	0	0	1	3	5	0	0	9
F6) Total pharyngolaryngo- esophagectomy	0	0	1	1	3	0	0	0	5
F1) Endoscopic resection	0	2	1	0	0	0	0	0	3
F4) Total Laryngectomy +Partial pharyngectomy	0	0	0	1	0	0	0	0	1
Unknown method	0	0	0	1	2	1	0	0	4
Unknown	0	0	0	0	0	0	0	0	0
Total	0	2	2	24	17	13	0	0	58

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 637 cases

**Pyriiform 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	0	26	99	45	70	0	7	247
F5) Total pharyngolaryngectomy	0	0	1	17	33	47	0	1	99
F1) Endoscopic resection	0	20	15	3	0	0	0	0	38
F6) Total pharyngolaryngo- esophagectomy	0	0	0	3	9	24	0	0	36
F3) Partial pharyngectomy	0	0	11	2	3	4		1	21
F2) Transoral resection	0	0	8	5	1	0	0	0	14
F4) Total Laryngectomy +Partial pharyngectomy	0	0	1	2	2	1	0	0	6
F7) Hypopharyngectomy +Cervical esophagectomy	0	0	1	0	0	1	0	0	2
Unknown method	0	0	0	1	2	0	0	2	5
Unknown	0	0	0	0	0	1	0	5	6
<b>Total</b>	<b>0</b>	<b>20</b>	<b>63</b>	<b>132</b>	<b>95</b>	<b>148</b>	<b>0</b>	<b>16</b>	<b>474</b>

NOS: not otherwise specified.

T-: without reported T classification.

Posterior wall

Surgical Method for the Primary Lesion by T Classification

Surgical method	T0	Tis	T1	T2	T3	T4	TX	T-	Total
X0) No surgery	0	1	6	15	10	13	0	1	46
F5) Total pharyngolaryngectomy	0	0	0	1	4	3	0	0	8
F1) F1) Endoscopic resection	0	1	4	2	0	0	0	0	7
F2) Transoral resection	0	0	4	2	0	0	0	0	6
F3) Partial pharyngectomy	0	0	1	3	0	0	0	0	4
F6) Total pharyngolaryngo- esophagectomy	0	0	0	0	1	2	0	0	3
F4) Total Laryngectomy	0	0	0	0	1	0	0	0	1
+Partial pharyngectomy									
F7) Pharyngectomy	0	0	0	0	0	1	0	0	1
+Cervical esophagectomy									
F9)+ Others	0	0	2	0	0	0	0	0	2
Unknown method	0	0	0	1	0	0	0	0	1
Unknown	0	0	0	0	0	1	0	0	1
Total	0	2	17	24	16	20	0	1	80

NOS: not otherwise specified.

T-: without reported T classification.

Carcinoma of the Hypopharynx ----- 637 cases

**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	0	0	1	1	7	0	0	9
F5) Total pharyngolaryngectomy	0	0	0	0	1	3	0	0	4
F6) Total pharyngolaryngo- esophagectomy	0	0	0	0	3	0	0	0	3
F1) Endoscopic resection	0	0	0	0	1	0	0	0	1
F2) Transoral resection	0	0	0	1	0	0	0	0	1
F7) Pharyngectomy +Cervical esophagectomy	0	0	0	0	0	1	0	0	1
Unknown method	0	0	0	0	0	0	0	2	2
Unknown	0	0	0	0	1	2	0	1	4
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>7</b>	<b>13</b>	<b>0</b>	<b>3</b>	<b>25</b>

NOS: not otherwise specified.

T-: without reported T classification.

## Carcinoma of the Hypopharynx ----- 637 cases

**Neck Dissection on the Ipsilateral Side by Subsite**

Neck dissection	Postericoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	35	269	57	12	373
1) Total N.D.	10	52	3	2	67
2) Selective N.D.	9	138	19	7	173
3) Lymph node excision	0	0	0	0	0
8) Others	0	0	0	0	0
Unknown type	3	4	1	2	10
9) Unknown	1	11	0	2	14
<b>Total</b>	<b>58</b>	<b>474</b>	<b>80</b>	<b>25</b>	<b>637</b>

NOS: not otherwise specified.

N.D.: neck dissection.

**Neck Dissection on the Contralateral Side by Subsite**

Neck dissection	Postericoid (C13.0)	Pyriiform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	37	322	66	15	440
1) Total N.D.	6	20	0	0	26
2) Selective N.D.	11	118	13	6	148
3) Lymph node excision	0	0	0	0	0
8) Others	0	0	0	0	0
Unknown type	3	4	1	2	10
9) Unknown	1	10	0	2	13
<b>Total</b>	<b>58</b>	<b>474</b>	<b>80</b>	<b>25</b>	<b>637</b>

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Hypopharynx ----- 637 cases

## Reconstructive Surgery by Subsite

Reconstructive surgery	Postcricoid (C13.0)	Pyramidal sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No reconstruction	45	314	63	13	435
B) Free jejunal flap	12	135	13	8	168
C) Free FA flap	0	13	1	0	14
7) Gastric pull-up	1	3	1	0	5
4) DP flap	0	1	0	0	1
A) Pedicled large intestine	0	1	0	0	1
D) Free RA MC flap	0	0	1	0	1
E) Free anterolateral thigh flap	0	1	0	0	1
Unknown	0	6	1	4	11
Total	58	474	80	25	637

NOS: not otherwise specified.

FA: forearm.

MC: musculocutaneous.

DP: deltopectoral.

RA: rectus abdominis.

## Carcinoma of the Hypopharynx ----- 637 cases

## Radiotherapy by Subsite

Type of radiotherapy	Postcricoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No radiotherapy	16	172	30	10	228
1) X-ray (and/or electron beam)	37	284	47	12	380
8) Others	0	1	0	0	1
Unknown type	5	8	1	0	14
9) Unknown	0	9	2	3	14
<b>Total</b>	<b>58</b>	<b>474</b>	<b>80</b>	<b>25</b>	<b>637</b>

NOS: not otherwise specified

## Chemotherapy by Subsite

Route of administration	Postcricoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No chemotherapy	20	223	40	8	291
1) Intravenous	26	182	32	11	251
3) Oral	2	24	1	2	29
5) Intravenous + Oral	5	16	4	1	26
2) Intraarterial	0	7	1	0	8
Unknow route	5	14	1	0	20
9) Unknown	0	8	1	3	12
<b>Total</b>	<b>58</b>	<b>474</b>	<b>80</b>	<b>25</b>	<b>637</b>

NOS: not otherwise specified



**Oropharynx (2011)**

**478 cases**

## Carcinoma of the Oropharynx ——— 478 cases

## Subsite

Subsite	Number of patients (%)	
Superior wall	46	(9.6)
Lateral wall	289	(60.5)
Posterior wall	32	(6.7)
Anterior wall	97	(20.3)
Oropharynx, NOS	14	(2.9)
Total	478	(100)

## 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	1	4
40 - 49	28	9	37
50 - 59	79	14	93
60 - 69	148	24	172
70 - 79	111	23	134
80 - 89	29	8	37
90 -	0	0	0
Total	398	80	478

## Carcinoma of the Oropharynx ----- 478 cases

## Histological Distribution by Subsite

Histologic type	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Acinic cell carcinoma	0	0	0	1	0	1
Adenocarcinoma.	0	1	0	0	0	1
Adenosquamous ca.	0	1	0	0	0	1
Adenoid cystic carcinoma	1	0	0	1	0	2
Basaloid S.C.C.	1	1	0	1	0	3
Carcinoma, NOS	1	0	0	1	0	2
Mucoepidermoid ca.	1	0	0	3	0	4
Papillary S.C.C.	1	0	0	0	0	1
Polymorphous low grade adenocarcinoma	0	0	0	2	0	2
Spindle cell ca., NOS	0	1	0	0	0	1
S.C.C. in situ, NOS	0	3	2	0	1	6
S.C.C. kerat., NOS	3	17	1	6	1	28
S.C.C. large cell, nonkerat.	0	1	0	0	0	1
S.C.C. microinvasive	2	3	1	1	1	8
S.C.C., NOS	36	260	28	81	11	416
S.C.C., small cell, nonkerat.	0	1	0	0	0	1
Total	46	289	32	97	14	478

NOS: not otherwise specified.  
kerat. : keratinizing.

ca.: carcinoma.  
nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.

## 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	46	7	0	6	24 *	2	5	0	1	91
T2	62	12	0	13	60 ***	20	7 *	0	4	178
T3	27	10	0	1	24 *	19 ***	4 *	0	1	86
T4	3	0	1	0	1	2 *	0	0	0	7
T4a	13 *	9	0	4 *	33	16 *	1	0	1	77
T4b	3	1	0	0	4	6	0	0	1	15
TX	0	0	0	2	2 *	0	0	0	0	4
T-	0	0	0	0	1	0	0	0	17	18
Total	156	39	1	26	149	65	17	0	25	478

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

T-: without reported T classification.

N-: without reported N classification.

## Carcinoma of the Oropharynx ----- 478 cases

## Treatment Method for the Primary Lesion by Subsite

Treatment method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
Without	25	174	19	53	4	275
With	21	107	12	43	9	192
Unknown	0	8	1	1	1	11
Radiotherapy						
Without	24	85	11	39	8	167
With	22	197	20	56	4	299
Unknown	0	7	1	2	2	12
Chemotherapy						
Without	24	104	18	43	10	199
With	22	179	13	53	3	270
Unknown	0	6	1	1	1	9
Total	46	289	32	97	14	478

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	40	192	27	49	9	317
With	6	88	4	47	3	148
Unknown	0	9	1	1	2	13
Radiotherapy						
Without	27	112	15	43	8	205
With	19	171	16	53	5	264
Unknown	0	6	1	1	1	9
Chemotherapy						
Without	24	104	18	43	10	199
With	22	179	13	53	3	270
Unknown	0	6	1	1	1	9
Total	46	289	32	97	14	478

NOS: not otherwise specified.

Carcinoma of the Oropharynx ----- 478 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	6	1	2	0	10
F) (Rad.+Chem.)	13	84	10	24	3	134
A) Surg. alone	18	62	11	29	7	127
B) Rad. alone	4	27	6	7	0	44
CF) Chem.->(Rad.+Chem.)	2	25	1	11	0	39
FC) (Rad.+Chem.)->Chem.	1	10	1	1	0	13
AF) Surg.->(Rad.+Chem.)	0	10	1	1	0	12
AB) Surg.->Rad.	0	7	0	3	1	11
CB) Chem.->Rad.	1	9	0	1	0	11
C) Chem. alone	1	7	0	2	0	10
CA) Chem.->Surg.	3	5	0	1	0	9
AC) Surg.->Chem.	0	4	0	2	0	6
D) (Surg.+Rad.)	0	4	0	2	0	6
CAB) Chem.->Surg.->Rad.	0	3	0	0	0	3
CAF) Chem.->Surg.->(Rad.+Chem.)	0	3	0	0	0	3
CFA) Chem.->(Rad.+Chem.)->Surg.	0	1	0	2	0	3
CFC) Chem.->(Rad.+Chem.)->Chem. (Surg.+Rad.+Chem.)	0	2	0	1	0	3
G) Others	0	3	0	0	0	3
Unknown	1	9	0	6	2	18
	1	8	1	2	1	13
Total	46	289	32	97	14	478

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	25	174	19	53	4	275
E3) Unilateral resection of the lateral wall of the oropharynx	0	55	0	0	1	56
E1) Resection of the base of tongue	0	0	0	24	0	24
E4) Unilateral resection of the lateral wall of the oropharynx and soft	4	14	0	0	0	18
E9) Resection of the oropharynx, other type	1	9	0	4	4	18
E8) Resection of the soft palate	10	2	0	0	0	12
E5) Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	1	10	0	0	0	11
E6) Resection of the posterior wall	0	0	8	0	1	9
E2) Resection of the base of tongue and epiglottis	0	0	0	5	0	5
F5) Total pharyngolaryngectomy	0	0	2	2	0	4
Others	5	1	1	6	0	13
Unknown method	0	16	1	2	3	22
Unknown	0	8	1	1	1	11
<b>Total</b>	<b>46</b>	<b>289</b>	<b>32</b>	<b>97</b>	<b>14</b>	<b>478</b>

NOS: not otherwise specified.

## Carcinoma of the Oropharynx ----- 478 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.	40	192	27	49	9	317
1) Total N.D.	2	27	2	17	0	48
2) Selective N.D.	4	52	1	30	1	88
3) Lymph node excision	0	0	0	0	0	0
Unknown type	0	9	1	0	2	12
9) Unknown	0	9	1	1	2	13
<b>Total</b>	<b>46</b>	<b>289</b>	<b>32</b>	<b>97</b>	<b>14</b>	<b>478</b>

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.	45	260	27	78	10	420
1) Total N.D.	0	3	1	1	0	5
2) Selective N.D.	1	9	2	17	0	29
3) Lymph node excision	0	0	0	0	0	0
Unknown type	0	8	1	0	2	11
9) Unknown	0	9	1	1	2	13
<b>Total</b>	<b>46</b>	<b>289</b>	<b>32</b>	<b>97</b>	<b>14</b>	<b>478</b>

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	38	242	29	72	11	392
E) Free ALT flap	1	17	0	9	1	28
D) Free RA MC flap	0	8	0	8	0	16
C) Free FA flap	0	10	0	0	0	10
5) PM MC flap	2	2	0	2	0	6
B) Free jejunal flap	0	1	2	2	0	5
3) Mucosal flap	3	0	0	0	0	3
Others	2	2	0	3	1	8
Unknown	0	7	1	1	1	10
Total	46	289	32	97	14	478

NOS: not otherwise specified.  
 MC: musculocutaneous.

ALT: anteroiateral thigh.  
 FA: forearm.

RA: rectus abdominis.  
 PM: pectoralis major.



## Carcinoma of the Oropharynx ----- 478 cases

## Radiotherapy by Subsite

Type of radiotherapy	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No radiotherapy	24	85	11	39	8	167
1) X-ray (and/or electron beam)	22	187	19	56	1	285
5) X-ray + B.T.	0	2	0	0	0	2
3) B.T.	0	1	0	0	0	1
Unknown type	0	7	1	0	3	11
9) Unknown	0	7	1	2	2	12
Total	46	289	32	97	14	478

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	24	104	18	43	10	199
1) I.V.	13	131	9	36	1	190
3) Oral	2	13	0	5	0	20
5) I.V.+Oral	2	11	3	3	0	19
2) I.A.	2	6	0	1	0	9
4) I.V.+I.A.	0	5	0	4	0	9
6) I.A.+Oral	0	1	0	1	0	2
Unknown route	3	12	1	3	2	21
9) Unknown	0	6	1	1	1	9
Total	46	289	32	97	14	478

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

## Nasopharynx (2011)

97 cases

## Carcinoma of the Nasopharynx ——— 97 cases

## Subsite

Subsite	Number of patients (%)	
Posterior-superior wall	39	( 40.2)
Lateral wall	51	( 52.6)
Inferior wall	0	( 0.0)
Nasopharynx, NOS	7	( 7.2)
Total	97	(100.0)

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	4	0	4
30 - 39	5	3	8
40 - 49	9	4	13
50 - 59	18	5	23
60 - 69	25	8	33
70 - 79	7	2	9
80 - 89	3	3	6
90 -	0	0	0
Total	71	26	97

## Carcinoma of the Nasopharynx ——— 97 cases

## Histological Distribution by Subsite

Histologic type	Postero- superior wall	Lateral wall	Inferior wall	Nasophar- ynx, NOS	Total
Adenoid cystic carcinoma	1	3	0	0	4
Carcinoma, NOS	0	2	0	0	2
Ca., undiff., NOS	1	3	0	0	4
Neoplasm, malig.	0	1	0	0	1
Lymphoepithelial carcinoma	5	9	0	1	15
Malig. Lymphoma, NOS	0	1	0	0	1
Spindle cell ca., NOS	0	1	0	0	1
S.C.C. kerat., NOS	3	1	0	0	4
S.C.C. large cell, nonkerat.	3	7	0	0	10
S.C.C., NOS	25	21	0	6	52
S.C.C., small cell, nonkerat.	1	2	0	0	3
Total	39	51	0	7	97

NOS: not otherwise specified. Ca., ca.: carcinoma. undiff.: undifferentiated.  
malig., 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	3	9	9 *	1 *	0	1	0	0	23
T2	5	11	14 ***	3 *	0	1	0	0	34
T3	2	4	5	0	0	1	0	0	12
T4	11	7	9	0	0	0	0	0	27
TX	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	1	1
Total	21	31	37	4	0	3	0	1	97

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

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

N-: without reported N classification.

## Carcinoma of the Nasopharynx ----- 97 cases

## Treatment Method for the Primary Lesion by Subsite

Treatment method	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
Without	38	51	0	7	96
With	1	0	0	0	1
Unknown	0	0	0	0	0
Radiotherapy					
Without	0	4	0	0	4
With	38	47	0	7	92
Unknown	1	0	0	0	1
Chemotherapy					
Without	5	12	0	0	17
With	34	39	0	7	80
Unknown	0	0	0	0	0
Total	39	51	0	7	97

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	37	47	0	6	90
With	2	4	0	0	6
Unknown	0	0	0	1	1
Radiotherapy					
Without	4	11	0	0	15
With	34	40	0	7	81
Unknown	1	0	0	0	1
Chemotherapy					
Without	5	15	0	0	20
With	34	35	0	7	76
Unknown	0	1	0	0	1
Total	39	51	0	7	97

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	1	0	0	1
F) (Rad.+Chem.)	20	27	0	3	50
B) Rad. alone	5	12	0	0	17
FC) (Rad.+Chem.)->Chem.	5	3	0	4	12
CF) Chem.->(Rad.+Chem.)	5	3	0	0	8
C) Chem.alone	1	4	0	0	5
BC) Rad.->Chem.	1	1	0	0	2
Others	2	0	0	0	2
Unknown	0	0	0	0	0
Total	39	51	0	7	97

NOS: not otherwise specified.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Nasopharynx ----- 97 cases

**Surgical Method for the Primary Lesion by Subsite**

Surgical method	Posterior superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No surgery	38	51	0	7	96
Unknown method	1	0	0	0	1
<b>Total</b>	<b>39</b>	<b>51</b>	<b>0</b>	<b>7</b>	<b>97</b>

NOS: not otherwise specified.

**Reconstructive Surgery by Subsite**

Reconstructive surgery	Posterior superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No reconstruction	38	51	0	7	96
Unknown	1	0	0	0	1
<b>Total</b>	<b>39</b>	<b>51</b>	<b>0</b>	<b>7</b>	<b>97</b>

NOS: not otherwise specified.

## Carcinoma of the Nasopharynx ----- 97 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.	37	47	0	6	90
1) Total N.D.	1	0	0	0	1
2) Selective N.D.	0	4	0	0	4
3) Lymph node excision	0	0	0	0	0
Unknown type	1	0	0	0	1
9) Unknown	0	0	0	1	1
Total	39	51	0	7	97

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.	37	51	0	7	95
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
Unknown type	1	0	0	0	1
9) Unknown	0	0	0	0	0
Total	39	51	0	7	97

NOS: not otherwise specified.

N.D.: neck dissection.



## Carcinoma of the Nasopharynx ----- 97 cases

## Radiotherapy by Subsite

Type of radiotherapy	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No radiotherapy	0	4	0	0	4
1) X-ray (and/or electron beam)	37	46	0	7	90
4) X-ray + Particle beam	0	1	0	0	1
5) X-ray + Brachytherapy	1	0	0	0	1
Unknown type	1	0	0	0	1
9) Unknown	0	0	0	0	0
Total	39	51	0	7	97

NOS: not otherwise specified.

## Chemotherapy by Subsite

Route of administration	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No chemotherapy	5	12	0	0	17
1) Intravenous	27	32	0	7	66
3) Oral	2	1	0	0	3
5) Intravenous+Oral	4	6	0	0	10
Unknown route	1	0	0	0	1
9) Unknown	0	0	0	0	0
Total	39	51	0	7	97

NOS: not otherwise specified.

**Nasal Cavity & Paranasal Sinuses  
(Excluding the Maxillary Sinus)  
(2011)**

**82 cases**

## Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 82 cases

## Subsite

Subsite	Number of patients (%)	
Nasal cavity	52	( 63.4)
Ethmoid sinus	19	( 23.2)
Frontal sinus	2	( 2.4)
Sphenoid sinus	3	( 3.7)
Paranasal sinus, NOS	6	( 7.3)
Total	82	(100.0)

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	1	2
20 - 29	3	0	3
30 - 39	4	2	6
40 - 49	5	1	6
50 - 59	5	3	8
60 - 69	22	4	26
70 - 79	17	7	24
80 - 89	3	4	7
90 -	0	0	0
Total	60	22	82

## Nasal cavity and Paranasal sinuses ----- 82 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
Adenocarcinoma	1	1	0	0	0	2
Adenoid cystic carcinoma	4	0	0	1	1	6
Carcinoma, NOS	0	1	0	0	0	1
Ca., undiff., NOS	1	1	0	0	1	3
Malig. Lymphoma, NOS	1	1	0	0	0	2
Malig. Melanoma, NOS	13	2	0	2	0	17
Myoepithelial carcinoma	1	0	0	0	0	1
Olfactory neuroblastoma	8	0	0	0	0	8
Papillary S.C.C.	1	0	1	0	0	2
Polymorphous spindle cell sarcoma	0	0	0	0	1	1
Rhabdomyosarcoma, NOS	2	1	0	0	1	4
Salivary duct carcinoma	1	0	0	0	0	1
Small cell ca., NOS	0	2	0	0	0	2
S.C.C. kerat., NOS	2	2	1	0	0	5
S.C.C. large cell, nonkerat.	1	0	0	0	0	1
S.C.C., NOS	14	8	0	0	2	24
Transitional cell carcinoma	1	0	0	0	0	1
Verrucous carcinoma	1	0	0	0	0	1
<b>Total</b>	<b>51</b>	<b>18</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>82</b>

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

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

undiff.: undifferentiated.  
kerat.: keratinizing.

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	7	0	0	0	0	0	0	0	0	7
T2	10	0	0	1	0	1	0	0	0	12
T3	11 *	0	0	0	0	1	0	0	1	13
T4	3	0	0	0	0	0	0	0	0	3
T4a	16	0	0	0	0	2	0	0	0	18
T4b	13	0	0	0	0	1	0	0	0	14
TX	0	0	0	0	0	0	0	0	0	0
T-	4	0	0	0	0	0	0	1	10 *	15
<b>Total</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>11</b>	<b>82</b>

M1:2 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 Nasal Cavity and Paranasal Sinuses ----- 82 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	28	13	1	3	2	47
With	24	5	1	0	4	34
Unknown	0	1	0	0	0	1
Radiotherapy						
Without	15	3	1	2	0	21
With	36	16	1	1	6	60
Unknown	1	0	0	0	0	1
Chemotherapy						
Without	29	5	1	2	2	39
With	23	13	1	1	4	42
Unknown	0	1	0	0	0	1
Total	52	19	2	3	6	82

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	47	18	2	3	5	75
With	5	1	0	0	1	7
Unknown	0	0	0	0	0	0
Radiotherapy						
Without	43	18	2	3	6	72
With	9	1	0	0	0	10
Unknown	0	0	0	0	0	0
Chemotherapy						
Without	44	15	2	3	6	70
With	8	4	0	0	0	12
Unknown	0	0	0	0	0	0
Total	52	19	2	3	6	82

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	1	0	0	2	0	3
B) Rad. alone	12	2	0	0	2	16
A) Surg. alone	11	1	1	0	0	13
F) (Rad.+Chem.)	8	2	1	1	0	12
AB) Surg.->Rad.	5	2	0	0	0	7
CAF) Chem.->Surg.->(Rad.+Chem.)	1	0	0	0	3	4
CF) Chem.->(Rad.+Chem.)	2	2	0	0	0	4
AF) Surg.->(Rad.+Chem.)	1	1	0	0	1	3
CA) Chem.->Surg.	3	0	0	0	0	3
CB) Chem.->Rad.	3	0	0	0	0	3
FC) (Rad.+Chem.)->Chem.	1	2	0	0	0	3
ABC) Surg.->Rad.->Chem.	1	1	0	0	0	2
C) Chem. alone	0	2	0	0	0	2
Others	2	3	0	0	0	5
Unknown	0	1	0	0	1	2
Total	51	19	2	3	7	82

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 ----- 97 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	28	13	1	3	2	47
D4) Skull base surgery	3	4	1	0	0	8
D9) Maxillectomy, other type	6	0	0	0	0	6
D1) Partial maxillectomy	2	0	0	0	1	3
D3) Extended total maxillectomy	2	0	0	0	0	2
D2) Total maxillectomy	1	0	0	0	0	1
Others	12	1	0	0	1	14
Unknown method	0	1	0	0	0	1
<b>Total</b>	<b>54</b>	<b>19</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>82</b>

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	47	14	1	3	4	69
D) Free RA MC flap	1	2	1	0	1	5
2) Local skin flap	1	0	0	0	0	1
E) Free anterolateral thigh flap	0	0	0	0	1	1
8) Others	3	2	0	0	0	5
Unknown	0	1	0	0	0	1
<b>Total</b>	<b>52</b>	<b>19</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>82</b>

NOS: not otherwise specified.

RA: rectus abdominis.

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.	47	18	2	3	5	75
1) Total N.D.	2	0	0	0	0	2
2) Selective N.D.	3	1	0	0	1	5
3) Lymph node excision	0	0	0	0	0	0
Unknown type	0	0	0	0	0	0
9) Unknown	0	0	0	0	0	0
<b>Total</b>	<b>52</b>	<b>19</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>82</b>

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.	50	19	2	3	6	80
1) Total N.D.	1	0	0	0	0	1
2) Selective N.D.	1	0	0	0	0	1
3) Lymph node excision	0	0	0	0	0	0
Unknown type	0	0	0	0	0	0
9) Unknown	0	0	0	0	0	0
<b>Total</b>	<b>52</b>	<b>19</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>82</b>

NOS: not otherwise specified.

N.D.: neck dissection.



Carcinoma of the Nasal Cavity and Paranasal Sinuses ----- 82 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	15	3	1	2	0	21
1) X-ray (and/or electron beam)	18	14	1	1	6	40
2) Particle beam	17	2	0	0	0	19
5) X-ray + Particle beam	1	0	0	0	0	1
9) Unknown	1	0	0	0	0	1
Total	52	19	2	3	6	82

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	29	5	1	2	2	39
1) Intravenous	22	9	1	1	4	37
3) Oral	0	1	0	0	0	1
5) Intravenous+Oral	0	1	0	0	0	1
4) Intravenous+Intraarterial	0	1	0	0	0	1
2) Intraarterial	1	0	0	0	0	1
Unknown route	0	1	0	0	0	1
9) Unknown	0	1	0	0	0	1
Total	52	19	2	3	6	82

NOS: not otherwise specified.

## Maxillary Sinus (2011)

122 cases

## Carcinoma of the Maxillary Sinus ----- 122 cases

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	1	1
10 - 19	0	0	0
20 - 29	1	0	1
30 - 39	2	0	2
40 - 49	4	3	7
50 - 59	17	5	22
60 - 69	32	6	38
70 - 79	28	6	34
80 - 89	14	2	16
90 -	1	0	1
Total	99	23	122

## Histological Distribution

Histologic type	Number of patients (%)	
Adenocarcinoma	3	( 2.6)
Adenoid cystic carcinoma	4	( 3.2)
Carcinoma, NOS	1	( 0.8)
Ca., undiff., NOS	4	( 3.2)
Carcinosarcoma	1	( 0.8)
Fibrosarcoma	1	( 0.8)
Malig. fibrous histiocytoma	1	( 0.8)
Malig. Melanoma, NOS	3	( 2.6)
Myoepithelial carcinoma	1	( 0.8)
Mucoepidermoid carcinoma	2	( 1.6)
Neoplasm, malig.	1	( 0.8)
Papillary S.C.C.	2	( 1.6)
Pseudosarcoma like carcinoma	1	( 0.8)
Plasmacytoma	1	( 0.8)
Rhabdomyosarcoma, NOS	3	( 2.6)
Small cell ca., NOS	2	( 1.6)
Spindle cell ca., NOS	1	( 0.8)
S.C.C. in situ, NOS	1	( 0.8)
S.C.C. kerat., NOS	6	( 4.9)
S.C.C., NOS	77	( 63.1)
S.C.C. small cell, nonkerat.	1	( 0.8)
S.C.C., spindle cell	3	( 2.6)
Transitional cell carcinoma	2	( 1.6)
Total	122	(100.0)

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

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

## Carcinoma of the Maxillary Sinus ----- 122 cases

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0
T1	2	0	0	0	0	0	0	0	0	2
T2	8	0	0	0	1	0	0	0	0	9
T3	29 *	1	0	0	1	2	0	0	0	33
T4	5	1	0	0	2	1 *	0	0	0	9
T4a	38 *	4	0	0	3	1	1	0	0	47
T4b	10 *	0	0	0	3	1	0	0	0	14
TX	0	0	0	0	0	0	0	0	0	0
T-	2	0	0	0	0	0	0	0	6	8
Total	94	6	0	0	10	5	1	0	6	122

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

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

N-: without reported N classification.

## Treatment Method for the Primary Lesion

Treatment method	Number of patients (%)
Surgery	
Without	67 ( 54.9)
With	47 ( 38.5)
Unknown	8 ( 6.6)
Radiotherapy	
Without	23 ( 18.9)
With	92 ( 75.4)
Unknown	7 ( 5.7)
Chemotherapy	
Without	39 ( 32.0)
With	78 ( 63.9)
Unknown	5 ( 4.1)
Total	122 ( 100.0)

## Treatment Method for the Cervical Lymph Nodes

Treatment method	Number of patients (%)
Surgery	
Without	98 ( 80.3)
With	18 ( 14.8)
Unknown	6 ( 4.9)
Radiotherapy	
Without	90 ( 73.8)
With	25 ( 20.5)
Unknown	7 ( 5.7)
Chemotherapy	
Without	88 ( 72.1)
With	27 ( 22.2)
Unknown	7 ( 5.7)
Total	122 ( 100.0)

## Carcinoma of the Maxillary Sinus ——— 122 cases

## Sequence of Treatment Methods for the Primary Lesion

Sequence of treatment methods	Number of patients (%)
No treatment	3 ( 2.5)
F) (Rad.+Chem.)	28 ( 22.9)
B) Rad. alone	16 ( 13.1)
A) Surg. alone	9 ( 7.4)
FA) (Rad.+Chem.) -> Surg.	8 ( 6.5)
AB) Surg. -> Rad.	6 ( 4.9)
AF) Surg. -> (Rad.+Chem.)	6 ( 4.9)
C) Chem. alone	5 ( 4.1)
CF) Chem.-> (Rad.+Chem.)	4 ( 3.3)
CA) Chem.-> Surg.	3 ( 2.5)
GC) (Surg.+Rad.+Chem.) -> Chem.	3 ( 2.5)
Others	24 ( 19.7)
Unknown	7 ( 5.7)
<b>Total</b>	<b>122 (100.0)</b>

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

## Surgical Method for the Primary Lesion

Surgical method	Number of patients (%)
X0) No surgery	63 ( 51.6)
D2) Total maxillectomy	19 ( 15.6)
D1) Partial maxillectomy	12 ( 9.8)
D3) Extended total maxillectomy	7 ( 5.7)
D9) Maxillectomy, other type	5 ( 4.1)
D34) Extended total maxillectomy with skull base surgery	3 ( 2.5)
X9) Others	1 ( 0.8)
Unknown method	4 ( 3.3)
Unknown	8 ( 6.6)
<b>Total</b>	<b>122 (100.0)</b>

## Carcinoma of the Maxillary Sinus ----- 122 cases

## Neck Dissection on the Ipsilateral Side

Neck dissection	Number of patients (%)
0) No N.D.	98 ( 80.3)
1) Total N.D.	2 ( 1.7)
2) Selective N.D.	16 ( 13.1)
3) Lymph node excision	0 ( 0.0)
9) Unknown	6 ( 4.9)
Total	122 (100.0)

N.D.: neck dissection.

## Neck Dissection on the Contralateral Side

Neck dissection	Number of patients (%)
0) No N.D.	115 ( 94.3)
1) Total N.D.	1 ( 0.8)
2) Selective N.D.	0 ( 0.0)
3) Lymph node excision	0 ( 0.0)
9) Unknown	6 ( 4.9)
Total	122 (100.0)

N.D.: neck dissection.

## Reconstructive Surgery

Reconstructive surgery	Number of patients (%)
0) No reconstruction	88 ( 72.1)
D) Free RA MC flap	19 ( 15.6)
C) Free forearm flap	1 ( 0.8)
E) Free anterolateral thigh flap	1 ( 0.8)
1) Skin graft	5 ( 4.1)
8) Others	1 ( 0.8)
Unknown	7 ( 5.8)
Total	122 (100.0)

RA: rectus abdominis.

MC: musculocutaneous.

## Carcinoma of the Maxillary Sinus ----- 122 cases

## Radiotherapy

Type of radiotherapy	Number of patients (%)	
0) No radiotherapy	23	( 19.0)
1) X-ray (and/or electron beam)	87	( 71.2)
3) Particle beam	3	( 2.5)
4) X-ray + Particle beam	1	( 0.8)
8)+ Others	1	( 0.8)
9) Unknown	7	( 5.7)
Total	122	(100.0)

## Chemotherapy

Route of administration	Number of patients (%)	
0) No chemotherapy	39	( 32.0)
2) Intraarterial	27	( 22.1)
1) Intravenous	26	( 21.3)
4) Intravenous + Intraarterial	13	( 10.7)
3) Oral	5	( 4.1)
6) Intraarterial + Oral	3	( 2.5)
5) Intravenous + Oral	2	( 1.6)
7) Iniravenous + Intraarterial + Oral	1	( 0.8)
Unknown route	1	( 0.8)
9) Unknown	5	( 4.1)
Total	122	(100.0)

## Major Salivary Glands (2011)

157 cases



## Carcinoma of the Major Salivary Glands ——— 157 cases

## Primary site

Site	Number of patients (%)	
Parotid gland	102	( 65.0)
Submandibular gland	48	( 30.6)
Sublingual gland	7	( 4.6)
Major salivary gland, NOS	0	( 0.0)
Total	157	(100.0)

## Major Salivary Gland ----- 157 cases

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	2	2
10 - 19	1	1	2
20 - 29	2	3	5
30 - 39	7	7	14
40 - 49	5	8	13
50 - 59	14	10	24
60 - 69	27	20	47
70 - 79	30	9	39
80 - 89	4	4	8
90 -	0	3	3
Total	90	67	157

## Parotid Gland

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	2	2
10 - 19	1	1	2
20 - 29	2	2	4
30 - 39	6	6	12
40 - 49	3	6	9
50 - 59	10	7	17
60 - 69	11	13	24
70 - 79	17	6	23
80 - 89	4	4	8
90 -	0	1	1
Total	54	48	102

## Major Salivary Gland ----- 157 cases

## Submandibular Gland

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	1	1
30 - 39	1	1	2
40 - 49	2	2	4
50 - 59	4	2	6
60 - 69	15	4	19
70 - 79	12	2	14
80 - 89	0	0	0
90 -	0	2	2
Total	34	14	48

## 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	0	0	0
50 - 59	0	1	1
60 - 69	1	3	4
70 - 79	1	1	2
80 - 89	0	0	0
90 -	0	0	0
Total	2	5	7

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	10	1	0	0	11
Adenocarcinoma	12	7	1	0	20
Adenoid cystic carcinoma	11	8	5	0	24
Basal cell adenocarcinoma	1	0	0	0	1
Basal cell carcinoma	0	1	0	0	1
Ca. ex pleomorphic adenoma	9	6	0	0	15
Carcinoma, NOS	1	2	0	0	3
Cystic adenocarcinoma	1	0	0	0	1
Epithelial-myoepithelial carcinoma	4	1	0	0	5
Myoepithelial carcinoma	3	1	0	0	4
Malig. Lymphoma, NOS	5	0	0	0	5
Mucoepidermoid carcinoma	23	5	1	0	29
Neoplasia, malig.	0	1	0	0	1
Salivary duct carcinoma	13	11	0	0	24
Small cell ca., NOS	2	0	0	0	2
S.C.C. in situ, NOS	0	1	0	0	1
S.C.C.,NOS	7	3	0	0	10
Total	102	48	7	0	157

NOS: not otherwise specified.

S.C.C.: squamous cell carcinoma.

Ca., ca.: carcinoma.

Malig., malig.: malignant.

## Carcinoma of the Major Salivary Glands ----- 157 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
T1	18	0	0	0	2	0	0	0	0	20
T2	43	2	0	1	6 **	1 *	0	0	0	53
T3	14	3	0	0	9 **	0	0	0	1	27
T4	5 *	0	0	0	1	0	0	0	0	6
T4a	16 *	3	0	1	8 *	0	1	0	0	29
T4b	0	0	0	1	3	0	1	0	0	5
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	1	0	16 *	17
Total	96	8	0	3	29	1	3	0	17	157

M1: 9 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	0	0	0	0	0	0	0	0	0	0
T1	14	0	0	0	0	0	0	0	0	14
T2	29	0	0	1	2	0	0	0	0	32
T3	10	1	0	0	4	0	0	0	0	15
T4	4 *	0	0	0	0	0	0	0	0	4
T4a	14 *	3	0	1	4 *	0	0	0	0	22
T4b	0	0	0	1	3	0	1	0	0	5
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	1	0	9	10
Total	71	4	0	3	13	0	2	0	9	102

M1: 3 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 ----- 157 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	3	0	0	0	2	0	0	0	0	5
T2	11	2	0	0	4 **	1 *	0	0	0	18
T3	4	2	0	0	5 **	0	0	0	1	12
T4	1	0	0	0	1	0	0	0	0	2
T4a	2	0	0	0	2 *	0	1	0	0	5
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	6 *	6
Total	21	4	0	0	14	1	1	0	7	48

M1: 6 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	3	0	0	0	0	0	0	0	0	3
T3	0	0	0	0	0	0	0	0	0	0
T4	0	0	0	0	0	0	0	0	0	0
T4a	0	0	0	0	2	0	0	0	0	2
T4b	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	1	1
Total	4	0	0	0	2	0	0	0	1	7

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

N-: without reported N classification.

## Carcinoma of the Major Salivary Glands ----- 157 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	13	6	0	0	19
With	89	41	7	0	137
Unknown	0	1	0	0	1
Radiotherapy					
Without	65	23	3	0	91
With	37	23	4	0	64
Unknown	0	2	0	0	2
Chemotherapy					
Without	88	30	6	0	124
With	14	17	1	0	32
Unknown	0	1	0	0	1
Total	102	48	7	0	157

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	50	7	4	0	61
With	48	40	3	0	91
Unknown	4	1	0	0	5
Radiotherapy					
Without	85	31	4	0	120
With	17	16	3	0	36
Unknown	0	1	0	0	1
Chemotherapy					
Without	97	37	6	0	140
With	5	10	1	0	16
Unknown	0	1	0	0	1
Total	102	48	7	0	157

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	5	1	0	0	6
A) Surg. alone	57	17	3	0	77
AB) Surg.->Rad.	21	11	3	0	35
G) (Surg.+Rad.+Chem.)	3	3	1	0	7
C) Chem. alone	2	4	0	0	6
AC) Surg.->Chem.	2	2	0	0	4
AF) Surg.->(Rad.+Chem.)	0	4	0	0	4
D) (Surg.+Rad.)	3	1	0	0	4
F) (Rad.+Chem.)	2	1	0	0	3
B) Rad. alone	2	0	0	0	2
Others	5	3	0	0	8
Unknown	0	1	0	0	1
Total	102	48	7	0	157

NOS: not otherwise specified.



Carcinoma of the Major Salivary Gland ----- 157 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	13	6	0	0	19
H6) Submandibulectomy	0	40	1	0	41
H4) Total parotidectomy	35	0	0	0	35
H2) Superficial parotidectomy	29	0	0	0	29
H5) Extended total parotidectomy	12	0	0	0	12
H1) Partial parotidectomy	6	0	0	0	6
H7) Sublingualectomy	0	0	3	0	3
X9) Others	2	0	3	0	5
Unknown method	5	1	0	0	6
Unknown	0	1	0	0	1
<b>Total</b>	<b>102</b>	<b>48</b>	<b>7</b>	<b>0</b>	<b>157</b>

NOS: not otherwise specified.

## Carcinoma of the Major Salivary Glands ----- 157 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.	50	7	4	0	61
1) Total N.D.	10	15	2	0	27
2) Selective N.D.	35	24	1	0	60
3) Lymph node excision	2	1	0	0	3
8) Others	1	0	0	0	1
9) Unknown	4	1	0	0	5
Total	102	48	7	0	157

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.	98	45	6	0	149
1) Total N.D.	0	0	0	0	0
2) Selective N.D.	0	2	1	0	3
3) Lymph node excision	0	0	0	0	0
8) Others	4	1	0	0	5
9) Unknown	0	0	0	0	0
Total	102	48	7	0	157

N.D.: neck dissection.

Carcinoma of the Major Salivary Gland ----- 157 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	74	41	4	0	119
D) Free RA MC flap	6	3	2	0	11
I) Nerve graft	11	0	0	0	11
E) Free anterolateral thigh flap	2	0	0	0	2
4) Deltopectoral flap	0	1	0	0	1
C) Free forearm flap	0	0	1	0	1
5) PM MC flap	0	1	0	0	1
2) Local skin flap	1	0	0	0	1
8) Others	3	0	0	0	3
Unknown	5	2	0	0	7
<b>Total</b>	<b>102</b>	<b>48</b>	<b>7</b>	<b>0</b>	<b>157</b>

NOS: not otherwise specified.

RA: rectus abdominis.

MC: musculocutaneous.

PM: pectoralis major.

## Carcinoma of the Major Salivary Glands ----- 157 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	65	23	3	0	91
1) X-ray (and/or electron beam)	33	23	3	0	59
3) Particle beam	2	0	1	0	3
Unknown source	2	0	0	0	2
9) Unknown	0	2	0	0	2
Total	102	48	7	0	157

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	88	30	6	0	124
1) Intravenous	12	12	1	0	25
3) Oral	1	4	0	0	5
5) Intravenous + Oral	0	1	0	0	1
Unknown route	1	0	0	0	1
Unknown	0	1	0	0	1
Total	102	48	7	0	157

NOS: not otherwise specified.