

Report of Head and Neck Cancer Registry of Japan
Clinical Statistics of Registered Patients, 2017

Japan Society for Head and Neck Cancer
Cancer Registry Committee

Preface

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

The importance of cancer registration has been recognized widely in Japan since the Act of Propulsion of Cancer Registration in 2013. Moreover, the number of participating institutions has increased since the Japanese Society of Head and Neck Surgery (JSHNS) decided a revision in the regime for board-certified head and neck surgeons and training facilities in 2014. The improved Ethical Guidelines for Medical and Health Research Involving Human Subjects have been publicly announced on Feb 28, 2017 and the revised APPI was enforced on May 30, 2017 in Japan, so that the procedure for informed consent was changed and the data traceability was taken into consideration in this registration thereafter. The minor refinements of the contents are being prepared for introduction of the 8th UICC TNM classification.

Moreover, the clinical research center (CRC) of Wakayama medical university hospital has participated in this registration system from July 2017. The data collection contents have been expanded to include the information on five-year prognosis from 2017. Hence, the prognosis data about the cases registered in 2012 were also disclosed this time. These reforms and expansion according to social, medical needs are important to achieve the further development of this registry. Actually, the total number of registered cases has remarkably increased by the assistance of data center. We expect that this vast organ-based registry led by doctors and CRC with an increase in the number of participating institutions, will help better understand the statistics and modes of treatment of head and neck cancer, besides the hospital-based or population-based cancer registry in Japan.

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

May 21, 2020

Ryuichi Hayashi, MD
Chairperson of the Board of Directors
Ken-ichi Nibu, MD
Chief Director of Cancer Registry
Seiichi Yoshimoto MD
Chairperson of Cancer Registry Committee
Japan Society for Head and Neck Cancer

Cancer Registry Committee 2020
Japan Society for Head and Neck Cancer

Directors	Ryuichi Hayashi, Ken-ichi Nibu, Tadaaki Kirita, and Tsuyoshi Kodaira
Supervisor	Munenaga Nakamizo
Chairperson	Seiichi Yoshimoto
Members	Daisuke Kawakita, Wataru Shimbashi, Daisuke Sano, Katsumasa Nakamura, Seiichi Uzawa, and Yoshihide Ota

Data Collection

All the doctors who are members of the Japan Society for Head and Neck Cancer are advised to participate in the registration of cancer patients. More than one doctor from an institution could participate in this registration. A participant is provided a UMIN (University hospital Medical Information Network in Japan) ID and a password for INDICE (Internet Data and Information Center for Medical Research) from the UMIN center and registers the data of the cases in their institute to the INDICE system online. The completed registration provides information regarding the patients' age, gender, tumor pathology, TNM classification, therapies (surgery, radiation and chemotherapy), and prognosis. This year, the 7th year of registration, all the data stored in the INDICE system were reviewed by head and neck oncologists and analyzed from all aspects, including the prognosis data about cases registered in 2012.

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

A total of 30284 cases (including cases other than in the year 2017 and with unknown presentation of diseases, unknown aim for therapies, previously treated) were registered from June 22, 2017 to Oct. 31, 2019. Data correction by each institution is allowed once by the system, and the data registered before Oct. 31, 2019, were checked and corrected after confirming with each institution, whereas, any data correction after the date by themselves were not verified. The total number of previously untreated patients was 12,535 for the starting date of the initial therapy from Jan. 1 to Dec. 31, 2017, after excluding cases other than in the year 2016 and with unknown presentation of diseases and duplicated registration.

List of 193 Institutions which participate in the Registry in 2017

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

List of 193 Institutions which participate in the Registry in 2017

- 37 Department of Otorhinolaryngology, Dokkyo Medical University Hospital
- 38 Department of Head and Neck Surgery, Gunma Prefectural Cancer Center
- 39 Department of Otorhinolaryngology, Gunma University Hospital
- 40 Department of Head and Neck Surgery, Saitama Medical University International Medical Center
- 41 Department of Oral Surgery, Saitama Cancer Center
- 42 Department of Head and Neck Surgery, Saitama Cancer Center
- 43 Department of Otorhinolaryngology, Ageo Central General Hospital
- 44 Department of Otorhinolaryngology, National Defense Medical College Hospital
- 45 Department of Otorhinolaryngology, Kameda Medical Center
- 46 Department of Otorhinolaryngology, Kimtsu Chuo Hospital
- 47 Division of Head and Neck Surgery, National Cancer Center Hospital East
- 48 Department of Otorhinolaryngology, Japanese Red Cross Narita Hospital
- 49 Department of Head and Neck Surgery, Chiba Cancer Center
- 50 Department of Oral Surgery, Chiba University Hospital
- 51 Department of Otorhinolaryngology, Chiba University Hospital
- 52 Department of Otorhinolaryngology, NTT Medical Center Tokyo
- 53 Department of Head and Neck Surgery, Cancer Institute Hospital
- 54 Department of Otorhinolaryngology, Kyorin University Hospital
- 55 Department of Otorhinolaryngology, Keio University Hospital
- 56 Department of Otorhinolaryngology, Showa General Hospital
- 57 Head and Neck Oncology Center, International University of Health and Welfare, Mita Hospital
- 58 Department of Head and Neck Surgery, National Cancer Center Hospital
- 59 Department of Otorhinolaryngology, Juntendo University Hospital
- 60 Department of Otorhinolaryngology, Showa University Hosipital
- 61 Department of Otorhinolaryngology, Teikyo University Hospital
- 62 Department of Otorhinolaryngology, Tokyo Metropolitan Cancer and Infectious Disease Center Komagome Hospital
- 63 Department of Otorhinolaryngology, Head and Neck Surgery, Faculty of Medicine, Tokyo Medical and Dental University Hospital
- 64 Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Tokyo Medical and Dental University Hospital
- 65 Department of Otorhinolaryngology, Tokyo Medical University, Hachioji Medical Center
- 66 Department of Otorhinolaryngology, Tokyo Medical University, Ichikawa General Hospital
- 67 Department of Otorhinolaryngology, Tokyo Medical University Hospital
- 68 Department of Otorhinolaryngology, Jikei University Hospital
- 69 Department of Otorhinolaryngology, The University of Tokyo Hospital
- 70 Department of Otorhinolaryngology, Tokyo Women's Medical University Hospital

List of 193 Institutions which participate in the Registry in 2017

- 71 Department of Otorhinolaryngology, Tokyo Metropolitan Tama Medical Center
- 72 Department of Oral Surgery, Tokyo Metropolitan Tama Medical Center
- 73 Department of Oral Surgery, Tokyo Metropolitan Ohtsuka Hospital
- 74 Department of Otorhinolaryngology and Oral Surgery, Tokyo Medical Center
- 75 Department of Otorhinolaryngology, Nippon Medical School Hospital
- 76 Division of Head and Neck Surgery, Nerima Hikarigaoka Hospital
- 77 Department of Otorhinolaryngology, Yokosuka Kyosai Hospital
- 78 Department of Dentistry and Oral Surgery, Yokohama City University Hospital
- 79 Department of Otorhinolaryngology, Yokohama City University Hospital
- 80 Department of Head and Neck Surgery, Kanagawa Cancer Center
- 81 Department of Otorhinolaryngology, St. Marianna University School of Medicine Hospital
- 82 Department of Otorhinolaryngology, Kawasaki Municipal Hospital
- 83 Department of Oral and Maxillofacial Surgery, Tsurumi University Dental Hospital
- 84 Department of Otorhinolaryngology, Tokai University Hospital
- 85 Department of Oral Surgery, Tokai University Hospital
- 86 Department of Otorhinolaryngology, Kitasato University Hospital
- 87 Department of Otorhinolaryngology, Saiseikai Yokohamashi Tobu Hospital
- 88 Department of Otorhinolaryngology, Shinshu University Hospital
- 89 Department of Otorhinolaryngology, Yamanashi University Hospital
- 90 Department of Otorhinolaryngology, Yamanashi Prefectural central hospital
- 91 Department of Otorhinolaryngology, Seirei Hamamatsu General Hospital
- 92 Department of Head and Neck Surgery, Shizuoka Cancer Center
- 93 Department of Otorhinolaryngology, Hamamatsu Medical University Hospital
- 94 Department of Otorhinolaryngology, Japanese Red Cross Shizuoka Hospital
- 95 Department of Dentistry and Oral Surgery, Kouseiren Takaoka Hospital
- 96 Department of Otorhinolaryngology, Toyama University Hospital
- 97 Department of Otorhinolaryngology, Kanazawa University Hospital
- 98 Department of Otorhinolaryngology, Kanazawa Medical University Hospital
- 99 Department of Otorhinolaryngology, Gifu University Hospital
- 100 Department of Otorhinolaryngology, Ogaki Municipal Hospital
- 101 Department of Head and Neck Surgery, Aichi Cancer Center
- 102 Department of Otorhinolaryngology, Fujita Health University Hospital
- 103 Department of Otorhinolaryngology, Toyohashi Municipal Hospital
- 104 Department of Otorhinolaryngology, Nagoya City University Hospital
- 105 Department of Otorhinolaryngology and Oral Surgery, Nagoya University Hospital
- 106 Department of Otorhinolaryngology, Japanese Red Cross Nagoya Daiichi Hospital
- 107 Department of Otorhinolaryngology, Fukui University Hospital

List of 193 Institutions which participate in the Registry in 2017

- 108 Department of Otorhinolaryngology, Shiga University of Medical Science Hospital
- 109 Department of Head and Neck Surgery, Kusatsu General Hospital
- 110 Department of Otorhinolaryngology, Japanese Red Cross Otsu Hospital
- 111 Department of Otorhinolaryngology, Shiga General Hospital
- 112 Department of Otorhinolaryngology, Ise Red Cross Hospital
- 113 Department of Otorhinolaryngology, Mie University Hospital
- 114 Department of Otorhinolaryngology, Kyoto Medical Center
- 115 Department of Otorhinolaryngology, Kyoto University Hospital
- 116 Department of Otorhinolaryngology, Japanese Red Cross Kyoto Daiichi Hospital
- 117 Department of Otorhinolaryngology, Japanese Red Cross Kyoto Daini Hospital
- 118 Department of Otorhinolaryngology, Kyoto Prefectural University Hospital
- 119 Department of Otorhinolaryngology, Kinki University Nara Hospital
- 120 Department of Otorhinolaryngology, Nara City Hospital
- 121 Department of Otorhinolaryngology, Tenri Hospital
- 122 Department of Otorhinolaryngology and Oral and Maxillofacial Surgery, Nara Medical University Hospital
- 123 Department of Otorhinolaryngology, Head and Neck Surgery and Oral Surgery, Nara Prefecture General Medical Center
- 124 Department of Otorhinolaryngology, Rinku General Medical Center
- 125 Department of Otorhinolaryngology, Kansai Medical University Hospital
- 126 Department of Oral and Maxillofacial Surgery and Otorhinolaryngology, Kinki University Hospital
- 127 Department of Otorhinolaryngology, Kishiwada City Hospital
- 128 Department of Otorhinolaryngology, Osaka Medical University Hospital
- 129 Department of Otorhinolaryngology, Osaka General Medical Center
- 130 Department of Otorhinolaryngology, Osaka City University Hospital
- 131 Department of Otorhinolaryngology, Osaka City General Hospital
- 132 Department of Otorhinolaryngology, Japanese Red Cross Osaka Hospital
- 133 Department of Oral Surgery, Osaka University Hospital
- 134 Department of Otorhinolaryngology, Osaka Saiseikai Nakatsu Hospital
- 135 Department of Otorhinolaryngology, Osaka Saiseikai Suita Hospital
- 136 Department of Otorhinolaryngology, Osaka International Cancer Center
- 137 Department of Otorhinolaryngology, Kansai Rosai Hospital
- 138 Department of Oral Surgery and Otorhinolaryngology, Wakayama Medical University Hospital
- 139 Department of Otorhinolaryngology, Japanese Red Cross Wakayama Medical Center
- 140 Department of Otorhinolaryngology, Kobe City Medical Center General Hospital
- 141 Department of Otorhinolaryngology, Kobe University Hospital
- 142 Department of Oral Surgery, Kobe University Hospital
- 143 Department of Otorhinolaryngology, Hyogo College of Medicine

List of 193 Institutions which participate in the Registry in 2017

- 144 Department of Otorhinolaryngology, Hyogo Cancer Center
- 145 Department of Otorhinolaryngology, Hyogo Prefectural Amagasaki General Medical Center
- 146 Department of Otorhinolaryngology, Okayama University Hospital
- 147 Department of Otorhinolaryngology, Himeji Red Cross Hospital
- 148 Department of Otorhinolaryngology, Tottori University Hospital
- 149 Department of Otorhinolaryngology, Kawasaki Medical School Hospital
- 150 Department of Otorhinolaryngology, Kurashiki Central Hospital
- 151 Department of Otorhinolaryngology, Shimane University Hospital
- 152 Department of Otorhinolaryngology, Fukuyama City Hospital
- 153 Department of Otorhinolaryngology, Hiroshima City Hiroshima Citizens Hospital
- 154 Department of Otorhinolaryngology, Hiroshima Red Cross Hospital & Atomic-bomb Survivors Hospital
- 155 Department of Otorhinolaryngology, Hiroshima University Hospital
- 156 Department of Otorhinolaryngology, Miyoshi Central Hospital
- 157 Department of Otorhinolaryngology, Kure Medical Center and Chugoku Cancer Center
- 158 Department of Otorhinolaryngology, Yamaguchi University Hospital
- 159 Department of Otorhinolaryngology, Yamaguchi Prefectural General Medical Center
- 160 Department of Otorhinolaryngology, Ehime Prefectural Central Hospital
- 161 Department of Otorhinolaryngology, Ehime University Hospital
- 162 Department of Otorhinolaryngology, Uwajima City Hospital
- 163 Department of Head and Neck Surgery, Shikoku Cancer Center
- 164 Department of Head and Neck Surgery, Tokushima University Hospital
- 165 Department of Otorhinolaryngology, Kochi Medical Center
- 166 Department of Otorhinolaryngology, Kochi Medical School Hospital
- 167 Department of Otorhinolaryngology, Kagawa University Hospital
- 168 Department of Otorhinolaryngology, Oita University Hospital
- 169 Department of Otorhinolaryngology, University of Occupational and Environmental Health
- 170 Department of Otorhinolaryngology, Kokura Memorial Hospital
- 171 Department of Head and Neck Surgery, Kyushu Cancer Center
- 172 Department of Otorhinolaryngology, Kyushu University Hospital
- 173 Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Kyushu University Hospital
- 174 Department of Otorhinolaryngology, Kyushu Medical Center
- 175 Department of Otorhinolaryngology, JCHO Kyushu Hospital
- 176 Department of Otorhinolaryngology, Hamanomachi Hospital
- 177 Department of Otorhinolaryngology, Fukuoka University Hospital
- 178 Department of Oral Surgery, Fukuoka University
- 179 Department of Oral Surgery, Fukuoka Dental University
- 180 Department of Otorhinolaryngology, Kurume University Hospital

List of 193 Institutions which participate in the Registry in 2017

- 181 Department of Otorhinolaryngology, Saga University Hospital
- 182 Department of Otorhinolaryngology, Ureshino Medical Center
- 183 Department of Otorhinolaryngology, Sasebo Kyosai Hospital
- 184 Department of Otorhinolaryngology, Sasebo City General Hospital
- 185 Department of Otorhinolaryngology, Nagasaki Medical Center
- 186 Department of Otorhinolaryngology, Nagasaki University Hospital
- 187 Department of Otorhinolaryngology, Kumamoto University Hospital
- 188 Department of Otorhinolaryngology, Miyazaki University Hospital
- 189 Department of Otorhinolaryngology, Kagoshima Medical Center
- 190 Department of Otorhinolaryngology, Kagoshima City Hospital
- 191 Department of Otorhinolaryngology, Kagoshima University Medical and Dental Hospital
- 192 Department of Otorhinolaryngology, Okinawa Prefectural Chubu Hospital
- 193 Department of Otorhinolaryngology, Ryukyu University Hospital

Head and Neck Cancer ----- 12535 Cases

Total Cases (2017)

12535 Cases

Primary Site

Site	Number of patients	(%)
1) Oral cavity	3366	(26.9)
2) Larynx	2364	(18.9)
3) Hypopharynx	2697	(21.5)
4) Oropharynx	2143	(17.1)
5) Nasopharynx	370	(3.0)
6) Nasal cavity, etc	427	(3.4)
7) Maxillary sinus	400	(3.2)
8) Major salivary glands	768	(6.1)
Total	12535	(100)

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

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	12	3	15
10 - 19	8	12	20
20 - 29	48	44	92
30 - 39	143	95	238
40 - 49	543	231	774
50 - 59	1297	364	1661
60 - 69	3371	660	4031
70 - 79	3230	730	3960
80 - 89	1129	471	1600
90 - 99	85	55	140
100 - 109	0	2	2
110 - 119	1	1	2
Total	9867	2668	12535

Head and Neck Cancer ----- 12535 Cases

Histological Distribution by Primary Site

Histologic type	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
Acinar cell ca.	1	0	0	1	0	3	0	37	42
Adenoca., NOS	5	2	1	6	2	21	9	48	94
Adenoid cystic ca.	30	1	1	13	2	24	17	115	203
Adenosquamous ca.	3	3	2	1	0	1	0	1	11
Basal cell adenoca.	0	0	0	0	0	0	0	14	14
Basal cell ca., NOS	0	0	2	1	0	2	0	4	9
Basaloid S.C.C.	2	1	16	4	0	4	0	0	27
Carcinoid tumor, NOS	0	2	0	1	0	1	0	0	4
Ca. ex pleomorphic adenoma	4	0	0	1	0	3	0	59	67
Ca., NOS	11	5	12	9	28	8	12	19	104
Ca., undifferentiated, NOS	2	2	0	0	15	8	8	2	37
Carcinosarcoma, NOS	0	3	0	1	0	1	3	1	9
Chondrosarcoma, NOS	1	3	0	0	0	1	0	0	5
Clear cell ca., NOS	0	0	0	1	1	1	0	1	4
Cystadenoca.	0	0	0	0	0	0	0	4	4
Epithelial-myoepithelial ca.	2	0	0	1	0	0	0	26	29
Ewing sarcoma	0	0	0	0	0	3	0	0	3
Fibrosarcoma, NOS	0	0	0	1	0	0	0	0	1
Giant cell sarcoma	0	0	0	0	0	0	2	0	2
Hemangiosarcoma	0	0	0	0	0	0	2	0	2
Large cell ca., NOS	0	0	0	1	0	0	1	2	4
Leiomyosarcoma, NOS	1	2	0	0	0	1	2	0	6
Liposarcoma, NOS	2	0	1	0	0	0	0	1	4
Lymphoepithelial ca.	1	0	6	4	37	0	0	4	52
Malg. lymphoma, NOS	2	0	1	5	1	2	2	14	27
Malg. melanoma, NOS	15	0	0	1	1	56	5	0	78
Mixed tumor, malig., NOS	0	0	0	0	0	0	0	2	2
Mucinous adenoca.	0	0	0	0	0	0	0	5	5
Mucoepidermoid ca.	32	2	1	16	3	2	5	117	178
Myoepithelial ca.	3	0	1	0	1	1	0	12	18
Neoplasm, malig.	4	3	5	3	1	5	2	7	30
Olfactory neuroblastoma	0	0	0	0	0	58	1	0	59
Oncocytic ca.	0	0	0	0	0	0	0	2	2
Osteosarcoma, NOS	5	0	0	0	0	1	0	0	6
Papillary S.C.C.	2	5	3	8	2	1	1	0	22
Plasmacytoma, NOS	0	0	0	1	1	1	0	0	3
Polymorphous low grade adenoca.	2	0	0	0	1	0	1	1	5
Rhabdomyosarcoma, NOS	0	0	0	1	0	3	1	0	5
Salivary duct ca.	4	0	0	2	0	0	0	178	184
Small cell ca., NOS	0	5	2	5	1	10	4	4	31
Spindle cell ca., NOS	5	12	3	7	2	1	4	0	34
S.C.C. in situ with questionable stromal invasion	2	2	1	0	0	0	0	0	5
S.C.C. in situ, NOS	78	87	134	50	2	3	2	0	356
S.C.C., kerat., NOS	154	81	69	37	7	4	14	1	367
S.C.C., large cell, nonkerat., NOS	2	3	23	29	34	4	6	0	101
S.C.C., microinvasive	10	4	18	9	0	1	0	0	42
S.C.C., NOS	2926	2123	2386	1903	211	176	282	76	10083
S.C.C., small cell, nonkerat.	2	0	4	4	14	0	0	1	25
S.C.C., spindle cell	10	6	0	1	0	1	1	0	19
Transitional cell ca., NOS	1	2	1	0	1	1	1	0	7
Undifferentiated pleomorphic sarcoma	1	0	0	0	0	0	3	0	4
Verrucous ca., NOS	37	1	0	1	0	0	1	0	40
Secretory ca. of breast	0	0	0	0	0	0	0	6	6
Intraepithelial neoplasia, grade III	0	0	1	0	0	0	0	0	1
Malg. lymphoma, large B-cell, diffuse, NOS	0	1	0	12	1	5	2	2	23
Malg. teratoma, undifferentiated	0	0	0	0	1	1	1	0	3
NK/T-cell lymphoma, nasal and nasaltpe	0	0	0	0	0	1	0	0	1
Lipoma-like liposarcoma Sclerosing liposarcoma Inflammatory liposarcoma	0	0	1	0	0	0	0	0	1
Pleomorphic rhabdomyosarcoma	0	0	0	0	0	0	0	1	1
Neuroendocrine ca., NOS	0	1	2	0	0	1	2	0	6
Malg. tumor, spindle cell type	0	0	0	0	0	0	1	0	1
Hemangiopericytoma, malig.	0	0	0	0	0	1	0	0	1
Sarcomatoid ca.	0	1	0	0	0	0	0	0	1
Fibromyxosarcoma	0	1	0	0	0	0	0	1	2
Follicular lymphoma, grade I	0	0	0	1	0	0	0	0	1
B cell lymphoma, NOS	0	0	0	1	0	0	0	0	1
Anaplastic large cell lymphoma, ALK negative	0	0	0	0	0	1	0	0	1
Epithelioid sarcoma	1	0	0	0	0	0	0	0	1
Extraskletal Ewing's sarcoma	0	0	0	0	0	0	1	0	1
Spindle cell sarcoma	0	0	0	0	0	1	0	0	1
Alveolar rhabdomyosarcoma	0	0	0	0	0	2	0	0	2
Spindle cell rhabdomyosarcoma	1	0	0	0	0	0	0	0	1
Neurilemoma, malig.	1	0	0	0	0	0	0	0	1
Primitive neuroectodermal tumor, NOS	0	0	0	0	0	0	1	0	1
Odontogenic tumor, malig.	1	0	0	0	0	0	0	0	1
SMACRB1	0	0	0	0	0	1	0	0	1
Total	3366	2364	2697	2143	370	427	400	768	12535

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 ----- 12535 Cases

Histological Distribution by Primary Site (Male)

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypopharynx	Oropharynx	Nasopharynx	Nasal cavity, etc	Maxillary sinus	Major salivary glands	
Acinar cell ca.	1	0	0	1	0	1	0	19	22
Adenoca., NOS	3	2	1	3	1	10	7	40	67
Adenoid cystic ca.	16	0	1	4	1	14	11	53	100
Adenosquamous ca.	2	3	1	1	0	1	0	1	9
Basal cell adenoca.	0	0	0	0	0	0	0	8	8
Basal cell ca., NOS	0	0	2	1	0	2	0	3	8
Basaloid S.C.C.	2	1	16	3	0	3	0	0	25
Blue nevus, malig.	0	0	0	0	0	0	0	0	0
Carcinoid tumor, NOS	0	1	0	1	0	0	0	0	2
Ca. ex pleomorphic adenoma	1	0	0	0	0	3	0	31	35
Ca., NOS	8	4	9	8	21	3	8	16	77
Ca., undifferentiated, NOS	1	2	0	0	8	4	6	1	22
Carcinosarcoma, NOS	0	3	0	1	0	0	2	0	6
Chondrosarcoma, NOS	0	2	0	0	0	0	0	0	2
Clear cell ca., NOS	0	0	0	1	0	1	0	1	3
Cystadenoca.	0	0	0	0	0	0	0	4	4
Epithelial-myoepithelial ca.	1	0	0	0	0	0	0	11	12
Ewing sarcoma	0	0	0	0	0	3	0	0	3
Fibrosarcoma, NOS	0	0	0	1	0	0	0	0	1
Giant cell sarcoma	0	0	0	0	0	0	1	0	1
Hemangiosarcoma	0	0	0	0	0	0	1	0	1
Large cell ca., NOS	0	0	0	1	0	0	1	2	4
Leiomyosarcoma, NOS	1	2	0	0	0	0	2	0	5
Liposarcoma, NOS	0	0	1	0	0	0	0	1	2
Lymphoepithelial ca.	1	0	6	2	30	0	0	2	41
Malig. lymphoma, NOS	1	0	1	3	0	2	2	10	19
Malig. melanoma, NOS	7	0	0	1	1	29	2	0	40
Metastasizing pleomorphic adenoma	0	0	0	0	0	0	0	0	0
Mixed tumor, malig., NOS	0	0	0	0	0	0	0	1	1
Mucinous adenoca.	0	0	0	0	0	0	0	2	2
Mucoepidermoid ca.	12	2	1	9	2	2	3	66	97
Myoepithelial ca.	1	0	1	0	1	1	0	3	7
Neoplasm, malig.	3	3	5	0	0	5	2	5	23
Olfactory neuroblastoma	0	0	0	0	0	34	0	0	34
Oncocytic ca.	0	0	0	0	0	0	0	1	1
Osteosarcoma, NOS	2	0	0	0	0	1	0	0	3
Papillary S.C.C.	1	5	3	6	2	0	1	0	18
Plasmacytoma, NOS	0	0	0	1	0	1	0	0	2
Polymorphous low grade adenoca.	1	0	0	0	0	0	1	1	3
Rhabdomyosarcoma, NOS	0	0	0	1	0	1	1	0	3
Salivary duct ca.	2	0	0	2	0	0	0	149	153
Sebaceous ca.	0	0	0	0	0	0	0	0	0
Sialoblastoma	0	0	0	0	0	0	0	0	0
Small cell ca., NOS	0	4	2	4	1	6	1	1	19
Solitary fibrous tumor, malig.	0	0	0	0	0	0	0	0	0
Spindle cell ca., NOS	2	12	3	7	0	1	4	0	29
S.C.C. in situ with questionable stromal invasion	1	2	1	0	0	0	0	0	4
S.C.C. in situ, NOS	43	77	125	45	1	1	1	0	293
S.C.C., kerat., NOS	98	76	63	32	5	3	12	0	289
S.C.C., large cell, nonkerat., NOS	1	2	20	25	22	2	5	0	77
S.C.C., microinvasive	6	4	18	9	0	1	0	0	38
S.C.C., NOS	1863	1968	2176	1574	157	138	232	58	8166
S.C.C., small cell, nonkerat.	0	0	4	3	12	0	0	0	19
S.C.C., spindle cell	2	6	0	1	0	0	0	0	9
Transitional cell ca., NOS	0	2	1	0	1	1	0	0	5
Undifferentiated pleomorphic sarcoma	0	0	0	0	0	0	2	0	2
Verrucous ca., NOS	17	1	0	1	0	0	1	0	20
Secretory ca. of breast	0	0	0	0	0	0	0	2	2
Intraepithelial neoplasia, grade III	0	0	1	0	0	0	0	0	1
Malig. lymphoma, large B-cell, diffuse, NOS	0	0	0	7	0	1	2	1	11
Malig. teratoma, undifferentiated	0	0	0	0	0	1	0	0	1
NK/T-cell lymphoma, nasal and nasaltpe	0	0	0	0	0	1	0	0	1
Lipoma-like liposarcoma Sclerosing liposarcoma Inflammatory liposarcoma	0	0	1	0	0	0	0	0	1
Pleomorphic rhabdomyosarcoma	0	0	0	0	0	0	0	0	0
Neuroendocrine ca., NOS	0	1	2	0	0	1	1	0	5
Malig. tumor, spindle cell type	0	0	0	0	0	0	0	0	0
Hemangiopericytoma, malig.	0	0	0	0	0	0	0	0	0
Sarcomatoid ca.	0	1	0	0	0	0	0	0	1
Fibromyxosarcoma	0	1	0	0	0	0	0	0	1
Follicular lymphoma, grade I	0	0	0	1	0	0	0	0	1
B cell lymphoma, NOS	0	0	0	1	0	0	0	0	1
Anaplastic large cell lymphoma, ALK negative	0	0	0	0	0	0	0	0	0
Epithelioid sarcoma	1	0	0	0	0	0	0	0	1
Extraskletal Ewing's sarcoma	0	0	0	0	0	0	0	0	0
Spindle cell sarcoma	0	0	0	0	0	0	0	0	0
Alveolar rhabdomyosarcoma	0	0	0	0	0	0	0	0	0
Spindle cell rhabdomyosarcoma	1	0	0	0	0	0	0	0	1
Neurilemoma, malig.	1	0	0	0	0	0	0	0	1
Primitive neuroectodermal tumor, NOS	0	0	0	0	0	0	1	0	1
Odontogenic tumor, malig.	1	0	0	0	0	0	0	0	1
SMACRBI	0	0	0	0	0	0	0	0	0
Total	2104	2187	2465	1761	266	278	313	493	9867

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 ----- 12535 Cases

Histological Distribution by Primary Site (Female)

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
	Oral cavity	Larynx	Hypopharynx	Oropharynx	Nasopharynx	Nasal cavity, etc	Maxillary sinus	Major salivary glands	
Acinar cell ca.	0	0	0	0	0	2	0	18	20
Adenoca., NOS	2	0	0	3	1	11	2	8	27
Adenoid cystic ca.	14	1	0	9	1	10	6	62	103
Adenosquamous ca.	1	0	1	0	0	0	0	0	2
Basal cell adenoca.	0	0	0	0	0	0	0	6	6
Basal cell ca., NOS	0	0	0	0	0	0	0	1	1
Basaloid S.C.C.	0	0	0	1	0	1	0	0	2
Blue nevus, malig.	0	0	0	0	0	0	0	0	0
Carcinoid tumor, NOS	0	1	0	0	0	1	0	0	2
Ca. ex pleomorphic adenoma	3	0	0	1	0	0	0	28	32
Ca., NOS	3	1	3	1	7	5	4	3	27
Ca., undifferentiated, NOS	1	0	0	0	7	4	2	1	15
Carcinosarcoma, NOS	0	0	0	0	0	1	1	1	3
Chondrosarcoma, NOS	1	1	0	0	0	1	0	0	3
Clear cell ca., NOS	0	0	0	0	1	0	0	0	1
Cystadenoca.	0	0	0	0	0	0	0	0	0
Epithelial-myoepithelial ca.	1	0	0	1	0	0	0	15	17
Ewing sarcoma	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	1	0	1
Hemangiosarcoma	0	0	0	0	0	0	1	0	1
Large cell ca., NOS	0	0	0	0	0	0	0	0	0
Leiomyosarcoma, NOS	0	0	0	0	0	1	0	0	1
Liposarcoma, NOS	2	0	0	0	0	0	0	0	2
Lymphoepithelial ca.	0	0	0	2	7	0	0	2	11
Malig. lymphoma, NOS	1	0	0	2	1	0	0	4	8
Malig. melanoma, NOS	8	0	0	0	0	27	3	0	38
Metastasizing pleomorphic adenoma	0	0	0	0	0	0	0	0	0
Mixed tumor, malig., NOS	0	0	0	0	0	0	0	1	1
Mucinous adenoca.	0	0	0	0	0	0	0	3	3
Mucoepidermoid ca.	20	0	0	7	1	0	2	51	81
Myoepithelial ca.	2	0	0	0	0	0	0	9	11
Neoplasm, malig.	1	0	0	3	1	0	0	2	7
Olfactory neuroblastoma	0	0	0	0	0	24	1	0	25
Oncocytic ca.	0	0	0	0	0	0	0	1	1
Osteosarcoma, NOS	3	0	0	0	0	0	0	0	3
Papillary S.C.C.	1	0	0	2	0	1	0	0	4
Plasmacytoma, NOS	0	0	0	0	1	0	0	0	1
Polymorphous low grade adenoca.	1	0	0	0	1	0	0	0	2
Rhabdomyosarcoma, NOS	0	0	0	0	0	2	0	0	2
Salivary duct ca.	2	0	0	0	0	0	0	29	31
Sebaceous ca.	0	0	0	0	0	0	0	0	0
Sialoblastoma	0	0	0	0	0	0	0	0	0
Small cell ca., NOS	0	1	0	1	0	4	3	3	12
Solitary fibrous tumor, malig.	0	0	0	0	0	0	0	0	0
Spindle cell ca., NOS	3	0	0	0	2	0	0	0	5
S.C.C. in situ with questionable stromal invasion	1	0	0	0	0	0	0	0	1
S.C.C. in situ, NOS	35	10	9	5	1	2	1	0	63
S.C.C., kerat., NOS	56	5	6	5	2	1	2	1	78
S.C.C., large cell, nonkerat., NOS	1	1	3	4	12	2	1	0	24
S.C.C., microinvasive	4	0	0	0	0	0	0	0	4
S.C.C., NOS	1063	155	210	329	54	38	50	18	1917
S.C.C., small cell, nonkerat.	2	0	0	1	2	0	0	1	6
S.C.C., spindle cell	8	0	0	0	0	1	1	0	10
Transitional cell ca., NOS	1	0	0	0	0	0	1	0	2
Undifferentiated pleomorphic sarcoma	1	0	0	0	0	0	1	0	2
Verrucous ca., NOS	20	0	0	0	0	0	0	0	20
Secretory ca. of breast	0	0	0	0	0	0	0	4	4
Intraepithelial neoplasia, grade III	0	0	0	0	0	0	0	0	0
Malig. lymphoma, large B-cell, diffuse, NOS	0	1	0	5	1	4	0	1	12
Malig. teratoma, undifferentiated	0	0	0	0	1	0	1	0	2
NK/T-cell lymphoma, nasal and nasalttype	0	0	0	0	0	0	0	0	0
Lipoma-like liposarcoma Sclerosing liposarcoma Inflammatory liposarcoma	0	0	0	0	0	0	0	0	0
Pleomorphic rhabdomyosarcoma	0	0	0	0	0	0	0	1	1
Neuroendocrine ca., NOS	0	0	0	0	0	0	1	0	1
Malig. tumor, spindle cell type	0	0	0	0	0	0	1	0	1
Hemangiopericytoma, malig.	0	0	0	0	0	1	0	0	1
Sarcomatoid ca.	0	0	0	0	0	0	0	0	0
Fibromyxosarcoma	0	0	0	0	0	0	0	1	1
Follicular lymphoma, grade I	0	0	0	0	0	0	0	0	0
B cell lymphoma, NOS	0	0	0	0	0	0	0	0	0
Anaplastic large cell lymphoma, ALK negative	0	0	0	0	0	1	0	0	1
Epithelioid sarcoma	0	0	0	0	0	0	0	0	0
Extraskletal Ewing's sarcoma	0	0	0	0	0	0	1	0	1
Spindle cell sarcoma	0	0	0	0	0	1	0	0	1
Alveolar rhabdomyosarcoma	0	0	0	0	0	2	0	0	2
Spindle cell rhabdomyosarcoma	0	0	0	0	0	0	0	0	0
Neurilemoma, malig.	0	0	0	0	0	0	0	0	0
Primitive neuroectodermal tumor, NOS	0	0	0	0	0	0	0	0	0
Odontogenic tumor, malig.	0	0	0	0	0	0	0	0	0
SMACRB1	0	0	0	0	0	1	0	0	1
Total	1262	177	232	382	104	149	87	275	2668

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.

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T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	17	0	1	3	4	0	1	0	0	2	0	28
T1	1718	159	38	50	160	30	27	2	7	15	1	2207
T1a	509	1	0	0	0	0	0	0	0	4	0	514
T1b	202	0	0	0	0	0	0	0	0	0	0	202
T2	2285	460	50	71	684	213	56	1	6	4	4	3834
T3	921	283	43	21	457	253	39	1	2	7	3	2030
T4	56	37	45	2	25	11	8	2	6	1	2	195
T4a	893	284	6	24	740	379	42	0	0	7	0	2375
T4b	185	36	1	3	90	86	19	0	0	3	0	423
Tis	355	1	0	0	3	0	0	0	0	6	0	365
TX	25	8	1	6	13	4	3	0	0	91	10	161
T-	11	1	0	0	0	0	0	0	0	0	189	201
Total	7177	1270	185	180	2176	976	195	6	21	140	209	12535

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

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

T and N Status (M0 Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	17	0	1	3	4	0	1	0	0	0	0	26
T1	1708	156	35	48	152	30	25	1	7	9	1	2172
T1a	505	1	0	0	0	0	0	0	0	2	0	508
T1b	202	0	0	0	0	0	0	0	0	0	0	202
T2	2259	453	48	69	644	199	48	0	5	3	2	3730
T3	901	270	35	19	429	217	28	1	1	3	1	1905
T4	56	35	38	2	20	7	5	2	5	0	2	172
T4a	859	271	5	23	689	328	31	0	0	3	0	2209
T4b	171	32	1	3	74	69	14	0	0	2	0	366
Tis	355	1	0	0	3	0	0	0	0	1	0	360
TX	24	8	1	6	13	3	2	0	0	6	0	63
T-	10	1	0	0	0	0	0	0	0	0	2	13
Total	7067	1228	164	173	2028	853	154	4	18	29	8	11726

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

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

T and N Status (M1 Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	3	2	3	2	8	0	2	1	0	0	0	21
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	10	5	2	2	34	13	6	1	1	0	0	74
T3	9	9	8	2	24	32	10	0	1	1	0	96
T4	0	1	5	0	4	4	1	0	1	0	0	16
T4a	24	9	1	1	44	48	11	0	0	1	0	139
T4b	10	4	0	0	14	14	3	0	0	0	0	45
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	1	0	0	0	0	1	1	0	0	4	0	7
T-	0	0	0	0	0	0	0	0	0	0	1	1
Total	57	30	19	7	128	112	34	2	3	6	1	399

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

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

T and N Status (Mx & M- Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	2	0	2
T1	7	1	0	0	0	0	0	0	0	6	0	14
T1a	4	0	0	0	0	0	0	0	0	2	0	6
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	16	2	0	0	6	1	2	0	0	1	2	30
T3	11	4	0	0	4	4	1	0	0	3	2	29
T4	0	1	2	0	1	0	2	0	0	1	0	7
T4a	10	4	0	0	7	3	0	0	0	3	0	27
T4b	4	0	0	0	2	3	2	0	0	1	0	12
Tis	0	0	0	0	0	0	0	0	0	5	0	5
TX	0	0	0	0	0	0	0	0	0	81	10	91
T-	1	0	0	0	0	0	0	0	0	0	186	187
Total	53	12	2	0	20	11	7	0	0	105	200	410

M-: without reported M classification.

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

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

Treatment Method for the Primary Lesion by Primary Site

Treatment Method	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
Surgery									
without	332	1422	1302	1193	342	161	218	75	5045
with	2797	862	1281	849	17	244	160	653	6863
unknown	237	78	98	85	10	22	22	40	592
Radiotherapy									
without	2428	714	1108	707	27	153	47	398	5582
with	701	1570	1475	1335	332	252	331	330	6326
unknown	237	78	98	85	10	22	22	40	592
Chemotherapy									
without	2443	1613	1259	872	60	248	114	584	7193
with	686	671	1324	1170	299	157	264	144	4715
unknown	237	78	98	85	10	22	22	40	592
Total	3366	2362	2681	2127	369	427	400	768	12500

Treatment Method for the Primary Lesion by Primary Site was not reported in 35 patients

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) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
Surgery									
without	1594	1815	1700	1470	347	368	291	273	7858
with	1463	450	882	570	11	31	76	436	3919
unknown	268	89	106	92	10	24	27	52	668
Radiotherapy									
without	2511	1737	1336	841	65	329	235	469	7523
with	546	528	1246	1199	293	70	132	240	4254
unknown	268	89	106	92	10	24	27	52	668
Chemotherapy									
without	2517	1868	1407	964	84	334	241	601	8016
with	540	397	1175	1076	274	65	126	108	3761
unknown	268	89	106	92	10	24	27	52	668
Total	3325	2354	2688	2132	368	423	394	761	12445

Treatment Method for the Cervical Lymph Nodes by Primary Site was no reported in 90 patients.

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

Head and Neck Cancer ----- 12535 Cases

Sequence of Treatment Methods for the Primary Lesion by Primary Site

Sequence of treatment methods	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
No treatment	83	45	72	43	8	20	7	15	293
A) Surg. alone	2130	627	816	533	6	109	31	344	4596
A)B) Surg.->Rad.	139	83	80	77	0	73	36	206	694
A)C) Surg. -> Chem	45	6	16	10	0	4	0	15	96
A)A) Surg.->Surg.	21	8	5	9	1	0	2	3	49
A)B)C) Surg.->Rad.->Chem.	3	3	3	2	0	1	1	11	24
A)D) Surg.-> (Surg.+Rad.)	3	2	2	0	0	0	2	2	11
A)F) Surg.->(Rad.+Chem.)	158	42	124	78	1	21	31	50	505
A)F)C) Surg.->(Rad.+Chem.)->Chem.	10	0	6	2	0	2	2	4	26
B) Rad. alone	94	852	277	207	43	37	36	20	1566
B)A) Rad.->Surg.	9	8	6	4	0	3	2	0	32
B)C) Rad.->Chem.	3	0	0	4	0	1	4	2	14
C) Chem. alone	39	13	80	55	9	19	6	20	241
C)F) Chem. -> (Rad.+Chem.)	13	41	157	141	35	11	14	2	414
C)A) Chem.->Surg.	120	21	86	45	0	1	3	1	277
C)A)B) Chem.->Surg.->Rad.	20	4	20	11	0	2	4	0	61
C)A)C) Chem.->Surg.->Chem.	12	1	6	3	0	0	0	0	22
C)A)F) Chem.->Surg.->(Rad.+Chem.)	31	7	29	16	0	5	6	0	94
C)B) Chem.->Rad.	1	8	23	25	3	8	3	0	71
C)C) Chem.->Chem.	4	2	9	4	1	0	0	1	21
C)C)C) Chem.->Chem.->Chem.	2	0	7	1	1	0	0	3	14
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	0	10	6	0	1	1	0	18
C)F)A) Chem.-> (Rad.+Chem.)->Surg.	0	3	5	4	1	0	0	0	13
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	1	0	11	5	4	3	5	0	29
D)(Surg.+Rad.)	7	6	2	2	0	2	3	5	27
E)(Surg.+Chem.)	6	0	3	2	0	0	0	2	13
F)(Rad.+Chem.)	80	459	619	678	188	57	140	9	2230
F)A)(Rad.+Chem.)->Surg.	13	16	28	15	2	9	25	0	108
F)C)(Rad.+Chem.)->Chem.	6	6	24	22	44	4	7	2	115
F)C)C)(Rad.+Chem.)->Chem.->Chem.	1	0	4	4	2	0	0	0	11
G)Surg.+Rad.+Chem.	15	1	2	0	0	0	2	3	23
Other	60	20	51	34	10	12	5	8	200
Unknown	237	78	98	85	10	22	22	40	592
Total	3366	2362	2681	2127	369	427	400	768	12500

Sequence of Treatment Methods for the Primary Lesion by Primary Site was not reported in 35 patients.

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 ----- 12535 Cases

Surgical Methods for the Primary Lesion by Primary Site

Surgical method	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
No surgery	326	1417	1311	1193	341	162	217	76	5043
Partial glossectomy	1037	0	0	4	0	0	0	0	1041
Unknown	258	99	124	113	15	27	29	40	705
Total laryngectomy	0	426	20	10	0	0	0	0	456
Total pharyngolaryngectomy	0	21	382	3	1	0	0	0	407
Others	82	32	42	66	11	48	26	56	363
Unilateral resection of the lateral wall of the orophary	0	0	1	334	0	0	0	1	336
Transoral resection	0	9	284	17	0	0	0	0	310
Transoral resection	1	248	16	3	0	0	0	0	268
Endoscopic resection	0	6	245	11	0	2	0	0	264
Partial maxillectomy	181	0	0	2	0	25	36	0	244
Segmental mandibulectomy	205	0	0	0	0	0	0	2	207
Resection of the floor of mouth	202	0	1	1	0	0	0	2	206
Subtotal glossectomy	188	0	2	5	0	0	0	0	195
Resection of the buccal mucosa	192	0	0	0	0	0	0	0	192
Total pharyngolaryngo-esophagectomy	1	11	165	5	0	0	0	0	182
Total parotidectomy	0	0	0	0	0	1	0	176	177
Submandibulectomy	0	0	0	0	0	0	0	151	151
Marginal mandibulectomy	148	0	0	1	0	0	0	0	149
Superficial parotidectomy	0	0	0	0	0	0	0	148	148
Hemiglossectomy	133	0	0	2	0	0	0	0	135
Hemiglossectomy (anterior 2/3rds)	119	0	0	0	0	0	0	0	119
Resection of oral cavity, NOS	116	0	0	0	0	0	0	2	118
Maxillectomy, other type	5	0	0	0	1	86	19	0	111
Total maxillectomy	34	0	1	0	0	4	69	1	109
Resection of the oropharynx, other type	3	0	0	100	0	0	0	0	103
Endoscopic resection	0	58	21	5	0	0	0	0	84
Resection of the soft palate	3	0	0	74	0	0	0	0	77
Resection of the root of tongue 0	1	1	1	73	0	0	0	0	76
Extended total parotidectomy	0	0	0	0	0	0	0	69	69
Resection of the posterior wall	1	0	0	66	0	0	0	0	67
Subtotal glossectomy (anterior 2/3rds)	55	0	0	1	0	0	0	0	56
Total laryngectomy+Partial pharyngectomy	0	3	48	0	0	0	0	0	51
Resection of lower gingiva	45	0	0	0	0	0	0	0	45
Unilateral resection of the lateral wall of the orophary	2	0	0	41	1	0	0	0	44
Partial parotidectomy	0	0	0	0	0	0	0	43	43
Endoscopic skull base surgery	0	0	0	0	0	41	1	0	42
Total glossectomy	24	0	0	12	0	0	0	0	36
Skull base surgery	1	0	0	0	0	31	3	0	35
Partial hypopharyngectomy	0	1	33	0	0	0	0	0	34
Partial laryngectomy	0	31	0	1	0	0	0	0	32
Total	3363	2363	2697	2143	370	427	400	767	12530

Surgical Methods for the Primary Lesion by Primary Site was not reported in 5 patients.

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

NOS: not otherwise specified.

Head and Neck Cancer ----- 12535 Cases

Reconstructive Surgery by Primary Site

Reconstructive surgery	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
No reconstruction	1912	2172	1951	1809	351	333	281	576	9385
Free jejunal flap	1	37	510	15	1	0	0	0	564
Free ALT flap	318	5	24	94	2	6	11	29	489
Free RA MC flap	276	2	5	41	0	9	56	14	403
Free FA flap	145	5	15	24	0	1	4	3	197
PM MC flap	74	15	20	16	0	0	0	17	142
Skin graft	96	1	0	2	0	0	2	0	101
Free fibular OC flap	86	0	1	0	0	1	2	2	92
Local skin flap	39	5	5	6	1	7	1	3	67
Free nerve graft	0	0	1	1	0	0	0	42	44
Mucosal flap	13	1	4	3	0	13	0	0	34
Free scapular OC flap	26	0	1	0	0	1	0	1	29
DP flap	7	3	3	3	0	0	0	3	19
Gastric pull-up	0	0	19	0	0	0	0	0	19
Others	78	2	6	6	0	27	9	18	146
Unknown	295	116	132	123	15	29	34	60	804
Total	3366	2364	2697	2143	370	427	400	768	12535

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

RA: rectus abdominis.

MC: musculocutaneous.

ALT: anterolateral thigh.

FA: forearm.

PM: pectoralis major.

OC: osteocutaneous.

DP: deltopectoral.

Head and Neck Cancer ----- 12535 Cases

Neck Dissection on the Ipsilateral Side by Primary Site

Neck dissection	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No N.D.	1612	1809	1705	1470	346	372	296	281	7891
1) Total N.D.	517	114	293	194	2	8	25	123	1276
2) Selective N.D.	928	302	554	335	5	16	44	287	2471
3) Lymph node excision	8	6	1	8	1	1	1	12	38
8) Others	18	17	19	16	0	2	2	11	85
9) Unknown	283	116	125	120	16	28	32	54	774
Total	3366	2364	2697	2143	370	427	400	768	12535

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) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No N.D.	2628	1949	1971	1875	353	395	359	694	10224
1) Total N.D.	75	45	132	30	0	0	0	2	284
2) Selective N.D.	356	233	447	98	1	2	5	8	1150
3) Lymph node excision	3	4	0	2	0	0	0	0	9
8) Others	19	18	20	19	0	2	3	10	91
9) Unknown	285	115	127	119	16	28	33	54	777
Total	3366	2364	2697	2143	370	427	400	768	12535

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

N.D.: neck dissection.

Head and Neck Cancer ----- 12535 Cases

Radiotherapy by Primary Site

Type of radiotherapy	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No radiotherapy	2373	694	1060	678	27	143	44	381	5400
1) X-ray (and/or electron beam)	651	1567	1515	1353	325	226	317	328	6282
2) Particle beam	3	1	2	1	4	31	10	7	59
3) B.T.	41	0	0	0	0	1	0	0	42
4) X-ray + Particle beam	0	2	0	0	1	0	0	0	3
5) X-ray + B.T.	1	0	0	0	0	0	0	0	1
6) Particl beam + B.T.	0	0	0	0	0	0	0	0	0
7) X-ray + Particl beam + B.T.	0	0	0	0	0	0	0	0	0
8) Others	0	0	0	2	0	0	0	1	3
9) Unknown	297	100	120	109	13	26	29	51	745
Total	3366	2364	2697	2143	370	427	400	768	12535

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

B.T.: brachytherapy.

Head and Neck Cancer ----- 12535 Cases

Chemotherapy by Primary site

Route of administration	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	Total
0) No chemotherapy	2421	1605	1236	858	58	245	109	584	7116
1) I.V.	462	549	1246	1106	292	133	122	118	4028
2) I.A.	37	6	9	28	1	19	127	1	228
3) Oral	125	100	50	34	4	2	8	13	336
4) I.V.+I.A.	14	2	3	3	1	0	7	0	30
5) I.V.+Oral	18	9	40	15	4	3	0	3	92
6) I.A.+Oral	5	0	2	1	0	1	2	0	11
7) I.V.+I.A.+Oral	0	0	0	0	0	0	0	0	0
8) Others	0	0	0	0	0	1	0	0	1
9) Unknown	284	93	111	98	10	23	25	49	693
Total	3366	2364	2697	2143	370	427	400	768	12535

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

I.V.: intravenous.

I.A.: intraarterial.

Oral Cavity (2017)

3366 Cases

Primary Site

Site	Number of patients	(%)
1) Lip	26	(0.8)
2) Buccal mucosa	243	(7.2)
3) Retro-molar area	65	(1.9)
4) Lower gingiva	491	(14.6)
5) Upper gingiva	319	(9.5)
6) Hard palate	105	(3.1)
7) Floor of mouth	311	(9.2)
8) Tongue	1801	(53.5)
9) Oral cavity, NOS	5	(0.1)
Total	3366	(100)

NOS: not otherwise specified

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	4	2	6
10 - 19	3	3	6
20 - 29	25	21	46
30 - 39	74	51	125
40 - 49	159	93	252
50 - 59	295	146	441
60 - 69	671	262	933
70 - 79	591	348	939
80 - 89	270	290	560
90 - 99	12	44	56
100 - 109	0	2	2
Total	2104	1262	3366

Carcinoma of the Lip

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	0	1
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	0	0	0
50 - 59	0	2	2
60 - 69	6	1	7
70 - 79	6	4	10
80 - 89	3	2	5
90 - 99	0	1	1
100 - 109	0	0	0
Total	16	10	26

Carcinoma of the Buccal Mucosa

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	0	0
20 - 29	1	0	1
30 - 39	3	1	4
40 - 49	3	2	5
50 - 59	12	9	21
60 - 69	29	24	53
70 - 79	43	40	83
80 - 89	22	45	67
90 - 99	2	6	8
100 - 109	0	0	0
Total	116	127	243

Carcinoma of the Retromolar Area

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	1	1
30 - 39	1	1	2
40 - 49	1	1	2
50 - 59	5	1	6
60 - 69	19	0	19
70 - 79	18	1	19
80 - 89	8	6	14
90 - 99	0	2	2
100 - 109	0	0	0
Total	52	13	65

Carcinoma of the Lower Gingiva

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	1	2
10 - 19	0	0	0
20 - 29	1	0	1
30 - 39	4	0	4
40 - 49	7	3	10
50 - 59	28	16	44
60 - 69	86	48	134
70 - 79	85	64	149
80 - 89	60	71	131
90 - 99	2	14	16
100 - 109	0	0	0
Total	274	217	491

Carcinoma of the Upper Gingiva

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	0	0	0
30 - 39	1	2	3
40 - 49	5	4	9
50 - 59	16	4	20
60 - 69	42	27	69
70 - 79	62	54	116
80 - 89	39	50	89
90 - 99	3	7	10
100 - 109	0	2	2
Total	168	151	319

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	1	2	3
30 - 39	0	2	2
40 - 49	3	0	3
50 - 59	7	6	13
60 - 69	14	13	27
70 - 79	26	9	35
80 - 89	9	8	17
90 - 99	0	5	5
100 - 109	0	0	0
Total	60	45	105

Carcinoma of the Floor of Mouth

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	1	2
40 - 49	14	5	19
50 - 59	44	11	55
60 - 69	112	12	124
70 - 79	74	10	84
80 - 89	16	11	27
90 - 99	0	0	0
100 - 109	0	0	0
Total	261	50	311

Carcinoma of the Tongue

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	2	1	3
10 - 19	2	2	4
20 - 29	22	17	39
30 - 39	64	44	108
40 - 49	126	77	203
50 - 59	183	97	280
60 - 69	362	136	498
70 - 79	277	166	443
80 - 89	113	96	209
90 - 99	5	9	14
100 - 109	0	0	0
Total	1156	645	1801

Carcinoma of the Oral Cavity, NOS

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	1	1
30 - 39	0	0	0
40 - 49	0	1	1
50 - 59	0	0	0
60 - 69	1	1	2
70 - 79	0	0	0
80 - 89	0	1	1
90 - 99	0	0	0
100 - 109	0	0	0
Total	1	4	5

Carcinoma of the Oral Cavity ----- 3366Cases

Histological Distribution by Subsite

Histologic type	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Acinar cell ca.	0	0	0	1	0	0	0	0	0	1
Adenoca., NOS	2	0	0	0	0	2	1	0	0	5
Adenoid cystic ca.	0	6	0	0	3	10	5	5	1	30
Adenosquamous ca.	0	0	0	0	0	0	0	3	0	3
Basaloid S.C.C.	0	0	0	0	1	0	0	1	0	2
Ca. ex pleomorphic adenoma	0	2	0	0	2	0	0	0	0	4
Ca., NOS	0	4	0	3	0	1	2	1	0	11
Ca., undifferentiated, NOS	0	0	0	0	2	0	0	0	0	2
Chondrosarcoma, NOS	0	0	0	0	0	1	0	0	0	1
Epithelial-myoepithelial ca.	0	0	0	0	0	1	1	0	0	2
Leiomyosarcoma, NOS	0	0	0	1	0	0	0	0	0	1
Liposarcoma, NOS	0	2	0	0	0	0	0	0	0	2
Lymphoepithelial ca.	0	0	1	0	0	0	0	0	0	1
Malig. lymphoma, NOS	0	0	0	1	1	0	0	0	0	2
Malig. melanoma, NOS	1	1	0	0	5	7	0	1	0	15
Mucoepidermoid ca.	0	4	3	5	1	9	4	6	0	32
Myoepithelial ca.	0	0	0	0	0	2	0	1	0	3
Neoplasm, malig.	0	1	0	0	0	1	0	1	1	4
Osteosarcoma, NOS	0	0	0	2	3	0	0	0	0	5
Papillary S.C.C.	0	0	0	1	0	1	0	0	0	2
Polymorphous low grade adenoca.	0	0	0	0	0	2	0	0	0	2
Salivary duct ca.	0	1	1	0	0	2	0	0	0	4
Spindle cell ca., NOS	1	1	1	0	1	0	0	1	0	5
S.C.C. in situ with questionable stromal invasion	0	1	0	0	0	0	0	1	0	2
S.C.C. in situ, NOS	0	4	1	2	3	1	9	58	0	78
S.C.C., kerat., NOS	2	11	2	31	15	2	16	75	0	154
S.C.C., large cell, nonkerat., NOS	0	0	0	0	0	0	0	2	0	2
S.C.C., microinvasive	0	3	0	2	0	1	1	3	0	10
S.C.C., NOS	16	195	56	437	271	60	271	1617	3	2926
S.C.C., small cell, nonkerat.	0	0	0	0	0	1	0	1	0	2
S.C.C., spindle cell	0	0	0	2	1	0	1	6	0	10
Transitional cell ca., NOS	0	0	0	0	0	0	0	1	0	1
Undifferentiated pleomorphic sarcoma	0	0	0	0	1	0	0	0	0	1
Verrucous ca., NOS	3	6	0	2	9	1	0	16	0	37
Epithelioid sarcoma	0	0	0	0	0	0	0	1	0	1
Spindle cell rhabdomyosarcoma	1	0	0	0	0	0	0	0	0	1
Neurilemoma, malig.	0	1	0	0	0	0	0	0	0	1
Odontogenic tumor, malig.	0	0	0	1	0	0	0	0	0	1
Total	26	243	65	491	319	105	311	1801	5	3366

ca., Ca.: carcinoma.

NOS: not otherwise specified.

S.C.C.: squamous cell carcinoma.

malig., Malig.: malignant.

kerat.: keratinizing.

nonkerat.: nonkeratinizing.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
Tis	67	0	0	0	2	0	0	0	0	6	0	75
T0	5	0	0	0	0	0	0	0	0	2	0	7
T1	816	36	3	3	16	2	4	0	0	4	1	885
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	791(2)	138	0	4	106(2)	21	4	0	0	0	1	1065
T3	155(1)	54	1	1	78	22(1)	4(1)	0	1	0	1	317
T4	6	8	0	0	7(1)	2	0	0	0	0	0	23
T4a	337(5)	124(2)	2(1)	5(1)	247(2)	105(6)	7(1)	0	0	3	0	830
T4b	30(1)	12(2)	0	0	31(4)	18(1)	5	0	0	1	0	97
TX	6	2	0	0	0	0	0	0	0	29	1	38
T-	0	0	0	0	0	0	0	0	0	0	29	29
Total	2213	374	6	13	487	170	24	0	1	45	33	3366

M1:34cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Lip T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
Tis	0	0	0	0	0	0	0	0	0	0	0	0
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	14	0	0	0	0	0	0	0	0	0	0	14
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	7	1	0	0	0	1	0	0	0	0	0	9
T3	0	0	0	0	1	0	0	0	0	0	1	2
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	0	0	0	0	0	0	0	0	0	0	0	0
T4b	0	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	1	0	1
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	21	1	0	0	1	1	0	0	0	1	1	26

M1:0 cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Buccal mucosa T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
Tis	5	0	0	0	0	0	0	0	0	0	0	5
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	54	4	0	0	0	0	0	0	0	0	0	58
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	73(1)	16	0	0	12	2	0	0	0	0	1	104
T3	17(1)	2	0	0	8	1	0	0	0	0	0	28
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	6	9	1(1)	0	12	0	0	0	0	0	0	28
T4b	6	1	0	0	3(1)	1	1	0	0	0	0	12
TX	0	1	0	0	0	0	0	0	0	4	0	5
T-	0	0	0	0	0	0	0	0	0	0	3	3
Total	161	33	1	0	35	4	1	0	0	4	4	243

M1:4cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Retromolar Area T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
Tis	1	0	0	0	0	0	0	0	0	0	0	1
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	11	0	0	1	0	0	1	0	0	0	0	13
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	21	5	0	0	1	0	1	0	0	0	0	28
T3	3	1	0	0	2	0	0	0	0	0	0	6
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	5	1	0	0	5	0	0	0	0	0	0	11
T4b	3	1	0	0	1	1	0	0	0	0	0	6
TX	0	0	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	44	8	0	1	9	1	2	0	0	0	0	65

M1:0 cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Lower Gingiva

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
Tis	5	0	0	0	0	0	0	0	0	1	0	6
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	60	4	0	0	3	0	1	0	0	0	0	68
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	69	15	0	1	8	6	0	0	0	0	0	99
T3	12	3	0	0	8	0	0	0	0	0	0	23
T4	3	3	0	0	3	0	0	0	0	0	0	9
T4a	115(1)	48(1)	1	2	65(1)	18(2)	1	0	0	3	0	253
T4b	7(1)	3	0	0	13(2)	3	1	0	0	0	0	27
TX	0	0	0	0	0	0	0	0	0	2	0	2
T-	0	0	0	0	0	0	0	0	0	0	4	4
Total	271	76	1	3	100	27	3	0	0	6	4	491

M1:8cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Upper Gingiva

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
Tis	4	0	0	0	0	0	0	0	0	0	0	4
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	30	2	1	0	5	0	0	0	0	0	0	38
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	49	9	0	0	9	1	1	0	0	0	0	69
T3	22	5	0	0	3	3	0	0	0	0	0	33
T4	0	2	0	0	0	0	0	0	0	0	0	2
T4a	79(1)	16	0	0	31	11	1	0	0	0	0	138
T4b	11	4(1)	0	0	7	7(1)	0	0	0	0	0	29
TX	1	0	0	0	0	0	0	0	0	3	0	4
T-	0	0	0	0	0	0	0	0	0	0	2	2
Total	196	38	1	0	55	22	2	0	0	3	2	319

M1:3cases. Number in parenthesis indicates numbers of M1 cases

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

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

Carcinoma of the Hard Palate

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
Tis	1	0	0	0	0	0	0	0	0	0	0	1
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	19	1	0	0	0	0	0	0	0	0	0	20
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	31	1	0	1	0	0	0	0	0	0	0	33
T3	9	1	0	0	0	1	0	0	0	0	0	11
T4	0	1	0	0	0	0	0	0	0	0	0	1
T4a	20(1)	4(1)	0	0	1	4	0	0	0	0	0	29
T4b	2	3(1)	0	0	3(1)	0	0	0	0	0	0	8
TX	0	0	0	0	0	0	0	0	0	0	1	1
T-	0	0	0	0	0	0	0	0	0	0	1	1
Total	82	11	0	1	4	5	0	0	0	0	2	105

M1:4cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Floor Mouth

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	73	6	0	1	5	1	1	0	0	1	0	88
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	70(1)	10	0	1	18(2)	5	2	0	0	0	0	106
T3	8	4	0	0	3	3	0	0	1	0	0	19
T4	1	1	0	0	2	0	0	0	0	0	0	4
T4a	22(1)	11	0	0	16(1)	23(1)	0	0	0	0	0	72
T4b	0	0	0	0	1	3	1	0	0	1	0	6
Tis	6	0	0	0	1	0	0	0	0	2	0	9
TX	1	1	0	0	0	0	0	0	0	3	0	5
T-	0	0	0	0	0	0	0	0	0	0	2	2
Total	181	33	0	2	46	35	4	0	1	7	2	311

M1:6cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Tongue

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	5	0	0	0	0	0	0	0	0	2	0	7
T1	555	19	2	1	3	1	1	0	0	3	1	586
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	469	81	0	1	58	6	0	0	0	0	0	615
T3	84	38	1	1	53	14(1)	4(1)	0	0	0	0	195
T4	2	1	0	0	2(1)	2	0	0	0	0	0	7
T4a	88(1)	35	0	3(1)	117	49(3)	5(1)	0	0	0	0	297
T4b	1	0	0	0	3	2	2	0	0	0	0	8
Tis	45	0	0	0	1	0	0	0	0	3	0	49
TX	4	0	0	0	0	0	0	0	0	16	0	20
T-	0	0	0	0	0	0	0	0	0	0	17	17
Total	1253	174	3	6	237	74	12	0	0	24	18	1801

M1:9cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Oral Cavity, NOS

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0	0	0	0	0	0
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	2	0	0	0	0	0	0	0	0	0	0	2
T3	0	0	0	0	0	0	0	0	0	0	0	0
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	2	0	0	0	0	0	0	0	0	0	0	2
T4b	0	0	0	0	0	1	0	0	0	0	0	1
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	4	0	0	0	0	1	0	0	0	0	0	5

M1:0 cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Oral Cavity ----- 3366Cases

Treatment Method for the Primary Lesion by Subsite

Treatment Method	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Surgery										
without	2	23	7	50	60	20	38	131	1	332
with	20	200	55	400	230	80	251	1557	4	2797
unknown	4	20	3	41	29	5	22	113	0	237
Radiotherapy										
without	16	173	45	334	191	71	219	1375	4	2428
with	6	50	17	116	99	29	70	313	1	701
unknown	4	20	3	41	29	5	22	113	0	237
Chemotherapy										
without	18	176	40	331	197	83	220	1373	5	2443
with	4	47	22	119	93	17	69	315	0	686
unknown	4	20	3	41	29	5	22	113	0	237
Total	26	243	65	491	319	105	311	1801	5	3366

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Surgery										
without	17	120	26	143	171	78	136	899	4	1594
with	5	95	33	294	111	20	146	758	1	1463
unknown	4	25	3	48	32	5	24	127	0	268
Radiotherapy										
without	19	179	46	344	217	85	217	1399	5	2511
with	3	36	13	93	65	13	65	258	0	546
unknown	4	25	3	48	32	5	24	127	0	268
Chemotherapy										
without	21	182	39	339	221	90	223	1397	5	2517
with	1	33	20	98	61	8	59	260	0	540
unknown	4	25	3	48	32	5	24	127	0	268
Total	26	240	62	485	314	103	306	1784	5	3325

Treatment Method for the Cervical Lymph Nodes by Subsite was not reported in 41 patients

NOS: not otherwise specified.

Carcinoma of the Oral Cavity ----- 3366Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
No treatment	0	3	3	11	14	4	13	34	1	83
A) Surg. alone	13	158	36	271	155	58	186	1251	2	2130
A)F) Surg.->(Rad.+Chem.)	0	11	10	18	20	4	14	81	0	158
A)B) Surg.->Rad.	3	10	1	28	12	10	17	57	1	139
C)A) Chem.->Surg.	0	6	4	26	13	1	9	61	0	120
B) Rad. alone	1	8	2	17	14	6	5	41	0	94
F)(Rad.+Chem.)	0	6	1	14	19	6	7	27	0	80
A)C) Surg. -> Chem	2	5	3	7	2	1	5	20	0	45
C) Chem. alone	1	5	0	7	5	1	6	14	0	39
C)A)F) Chem.->Surg.->(Rad.+Chem.)	1	2	0	3	1	0	9	15	0	31
A)A) Surg.->Surg.	0	1	0	5	1	2	0	11	1	21
C)A)B) Chem.->Surg.->Rad.	0	0	0	6	4	0	2	8	0	20
G)Surg.+Rad.+Chem.	0	1	0	5	2	1	2	4	0	15
C)F) Chem. -> (Rad.+Chem.)	0	0	0	2	3	0	3	5	0	13
F)A)(Rad.+Chem.)->Surg.	0	1	0	5	2	0	1	4	0	13
C)A)C) Chem.->Surg.->Chem.	0	0	0	3	1	0	1	7	0	12
Other	1	6	2	22	22	6	9	48	0	116
Unknown	4	20	3	41	29	5	22	113	0	237
Total	26	243	65	491	319	105	311	1801	5	3366

NOS: not otherwise specified.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Oral Cavity ----- 3366Cases

Surgical Methods for the Primary Lesion by Subsite

Surgical method	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
X0 No surgery	2	22	7	51	57	20	38	128	1	326
A1 Partial glossectomy	0	1	0	1	0	0	5	1030	0	1037
B2 Segmental mandibulectomy	0	4	8	174	3	0	14	1	1	205
C2 Resection of the floor of mouth	1	0	0	4	0	0	195	2	0	202
C4 Resection of the buccal mucosa	1	166	21	1	2	0	0	0	1	192
A5 Subtotal glossectomy	0	0	0	1	0	0	10	177	0	188
D1 Partial maxillectomy	0	6	1	1	144	28	0	0	1	181
B1 Marginal mandibulectomy	0	8	4	126	0	0	9	1	0	148
A4 Hemiglossectomy	0	0	0	0	0	0	0	133	0	133
A2 Hemiglossectomy (anterior 2/3rds)	0	0	0	0	0	0	1	118	0	119
C9 Resection of oral cavity, NOS	1	10	17	2	36	37	12	1	0	116
A3 Subtotal glossectomy (anterior 2/3rds)	0	0	0	0	0	0	2	53	0	55
C3 Resection of lower gingiva	0	0	1	44	0	0	0	0	0	45
D2 Total maxillectomy	0	0	0	0	27	6	1	0	0	34
+ Others	17	4	2	38	14	9	2	37	1	124
V9 Unknown	4	22	3	48	35	5	22	119	0	258
Total	26	243	64	491	318	105	311	1800	5	3363

Surgical Methods for the Primary Lesion by Primary Site was not reported in 3 patients

NOS: not otherwise specified.

Carcinoma of the Oral Cavity ----- 3366Cases

Reconstructive Surgery by Subsite

Reconstructive surgery	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No reconstruction	9	121	31	184	199	76	151	1137	4	1912
E) Free ALT flap	1	25	11	36	10	4	35	196	0	318
D) Free RA MC flap	0	11	6	53	26	4	25	150	1	276
C) Free FA flap	1	17	3	10	1	1	26	86	0	145
1) Skin graft	0	23	1	11	26	8	13	14	0	96
G) Free fibular OC flap	0	3	2	73	1	0	7	0	0	86
5) PM MC flap	0	3	2	25	1	0	7	36	0	74
2) Local skin flap	9	6	1	3	0	0	8	12	0	39
F) Free scapular OC flap	0	0	1	16	3	1	3	2	0	26
3) Mucosal flap	0	3	1	3	4	0	1	1	0	13
4) DP flap	0	0	0	1	0	0	1	5	0	7
B) Free jejunal flap	0	0	0	0	0	0	0	1	0	1
7) Gastric pull-up	0	0	0	0	0	0	0	0	0	0
1) Free nerve graft	0	0	0	0	0	0	0	0	0	0
8) +Others	2	5	3	17	11	5	7	28	0	75
9) Unknown	4	26	3	59	37	6	27	133	0	295
Total	26	243	65	491	319	105	311	1801	5	3366

NOS: not otherwise specified.

RA: rectus abdominis.

MC: musculocutaneous.

ALT: anterolateral thigh.

FA: forearm.

PM: pectoralis major.

OC: osteocutaneous.

DP: deltopectoral.

Carcinoma of the Oral Cavity ----- 3366Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No N.D.	17	121	26	143	171	78	139	913	4	1612
1) Total N.D.	0	32	14	97	46	5	57	266	0	517
2) Selective N.D.	5	61	22	192	59	16	89	483	1	928
3) Lymph node excision	0	1	0	2	4	0	0	1	0	8
8) Others	0	2	0	2	4	0	1	9	0	18
9) Unknown	4	26	3	55	35	6	25	129	0	283
Total	26	243	65	491	319	105	311	1801	5	3366

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

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No N.D.	19	202	60	363	262	92	202	1423	5	2628
1) Total N.D.	0	3	0	10	4	3	18	37	0	75
2) Selective N.D.	3	8	2	59	15	4	65	200	0	356
3) Lymph node excision	0	0	0	2	0	0	0	1	0	3
8) Others	0	3	0	2	4	0	1	9	0	19
9) Unknown	4	27	3	55	34	6	25	131	0	285
Total	26	243	65	491	319	105	311	1801	5	3366

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

Carcinoma of the Oral Cavity ----- 3366Cases

Radiotherapy by Subsite

Type of radiotherapy	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No radiotherapy	16	167	45	328	186	69	215	1343	4	2373
1) X-ray (and/or electron beam)	5	43	17	111	98	25	71	280	1	651
2) Particle beam	0	1	0	0	0	2	0	0	0	3
3) B.T.	1	4	0	1	0	1	2	32	0	41
4) X-ray + Particle beam	0	0	0	0	0	0	0	0	0	0
5) X-ray + B.T.	0	0	0	0	0	0	0	1	0	1
6) Particl beam + B.T.	0	0	0	0	0	0	0	0	0	0
7) X-ray + Particl beam + B.T.	0	0	0	0	0	0	0	0	0	0
8) Others	0	0	0	0	0	0	0	0	0	0
9) Unknown	4	28	3	51	35	8	23	145	0	297
Total	26	243	65	491	319	105	311	1801	5	3366

NOS: not otherwise specified.

B.T.: brachytherapy.

Chemotherapy by Subsite

Route of administration	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
0) No chemotherapy	17	173	41	327	198	79	218	1363	5	2421
1) I.V.	2	28	15	81	55	13	50	218	0	462
2) I.A.	1	4	0	1	11	2	3	15	0	37
3) Oral	2	10	3	29	18	2	13	48	0	125
4) I.V.+I.A.	0	0	0	1	3	2	2	6	0	14
5) I.V.+Oral	0	1	2	3	0	1	1	10	0	18
6) I.A.+Oral	0	0	0	0	1	0	0	4	0	5
7) I.V.+I.A.+Oral	0	0	0	0	0	0	0	0	0	0
8) Others	0	0	0	0	0	0	0	0	0	0
9) Unknown	4	27	4	49	33	6	24	137	0	284
Total	26	243	65	491	319	105	311	1801	5	3366

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial

Larynx (2017)

2364 Cases

Primary Site

Site	Number of patients	(%)
Glottis	1633	(69.1)
Supraglottis	605	(25.6)
Subglottis	88	(3.7)
Larynx, NOS	38	(1.6)
Total	2364	(100)

NOS: not otherwise specified

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	2	0	2
10 - 19	0	0	0
20 - 29	1	0	1
30 - 39	3	0	3
40 - 49	44	4	48
50 - 59	213	20	233
60 - 69	714	68	782
70 - 79	852	56	908
80 - 89	325	27	352
90 - 99	33	2	35
100 - 109	0	0	0
Total	2187	177	2364

NOS: not otherwise specified

Glottis Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	0	0
20 - 29	1	0	1
30 - 39	3	0	3
40 - 49	29	2	31
50 - 59	153	8	161
60 - 69	487	36	523
70 - 79	592	32	624
80 - 89	240	18	258
90 - 99	30	1	31
100 - 109	0	0	0
Total	1536	97	1633

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	14	2	16
50 - 59	50	11	61
60 - 69	201	29	230
70 - 79	207	18	225
80 - 89	64	6	70
90 - 99	3	0	3
100 - 109	0	0	0
Total	539	66	605

Subglottis Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	6	0	6
60 - 69	19	2	21
70 - 79	37	3	40
80 - 89	15	3	18
90 - 99	0	1	1
100 - 109	0	0	0
Total	79	9	88

Carcinoma of the Larynx, NOS Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	0	0	0
50 - 59	4	1	5
60 - 69	7	1	8
70 - 79	16	3	19
80 - 89	6	0	6
90 - 99	0	0	0
100 - 109	0	0	0
Total	33	5	38

NOS: not otherwise specified

Carcinoma of the Larynx ----- 2364cases

Histological Distribution by Subsite

Histologic type	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Adenoca., NOS	0	1	0	1	2
Adenoid cystic ca.	0	0	1	0	1
Adenosquamous ca.	3	0	0	0	3
Basaloid S.C.C.	0	1	0	0	1
Carcinoid tumor, NOS	0	2	0	0	2
Ca., NOS	3	2	0	0	5
Ca., undifferentiated, NOS	1	1	0	0	2
Carcinosarcoma, NOS	2	0	1	0	3
Chondrosarcoma, NOS	0	0	1	2	3
Leiomyosarcoma, NOS	2	0	0	0	2
Mucoepidermoid ca.	1	0	0	1	2
Neoplasm, malig.	2	1	0	0	3
Papillary S.C.C.	4	1	0	0	5
Small cell ca., NOS	1	4	0	0	5
Spindle cell ca., NOS	5	3	3	1	12
S.C.C. in situ with questionable stromal invasion	2	0	0	0	2
S.C.C. in situ, NOS	73	13	1	0	87
S.C.C., keratinizing, NOS	58	20	3	0	81
S.C.C., large cell, nonkeratinizing, NOS	1	1	1	0	3
S.C.C., microinvasive	3	1	0	0	4
S.C.C., NOS	1466	548	76	33	2123
S.C.C., spindle cell	3	3	0	0	6
Transitional cell ca., NOS	1	1	0	0	2
Verrucous ca., NOS	1	0	0	0	1
Malig. lymphoma, large B-cell, diffuse, NOS	0	1	0	0	1
Neuroendocrine ca., NOS	0	1	0	0	1
Sarcomatoid ca.	0	0	1	0	1
Fibromyxosarcoma	1	0	0	0	1
Total	1633	605	88	38	2364

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

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

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

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	3	0	0	0	0	0	0	0	0	0	0	3
T1	146(1)	8	1	0	6	2	0	1	0	3	0	167
T1a	509	1	0	0	0	0	0	0	0	4	0	514
T1b	202	0	0	0	0	0	0	0	0	0	0	202
T2	531	29(1)	1	5	39(4)	22(4)	0	8(2)	0	1	0	636
T3	305	62(2)	1	1	62(3)	34(3)	0	2	0	1	0	468
T4	9	0	1(1)	0	3(1)	0	0	0	0	0	0	13
T4a	131	22	0	2	52(5)	40(2)	0	4(2)	0	0	0	251
T4b	2	2(1)	0	0	1(1)	1	0	0	0	0	0	6
Tis	69	0	0	0	0	0	0	0	0	0	0	69
TX	3	0	0	0	0	0	1	0	0	13	0	17
T-	0	0	0	0	0	0	18	0	0	0	0	18
Total	1910	124	4	8	163	99	19	15	0	22	0	2364

M1:33cases. Number in parenthesis indicates number of M1 cases

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

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

Glottis T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	2	0	0	0	0	0	0	0	0	0	0	2
T1	61(1)	1	0	0	0	0	0	0	0	2	0	64
T1a	508	1	0	0	0	0	0	0	0	4	0	513
T1b	196	0	0	0	0	0	0	0	0	0	0	196
T2	394	6	0	0	6	5(1)	1(1)	0	0	0	0	412
T3	223	23(1)	1	1	11	6(1)	1	0	0	0	0	266
T4	7	0	1(1)	0	1	0	0	0	0	0	0	9
T4a	63	11	0	0	10(2)	5	0	0	0	0	0	89
T4b	2	1	0	0	0	0	0	0	0	0	0	3
Tis	56	0	0	0	0	0	0	0	0	0	0	56
TX	3	0	0	0	0	0	0	0	0	10	0	13
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	1515	43	2	1	28	16	2	0	0	16	10	1633

M1:8cases. Number in parenthesis indicates number of M1 cases

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

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

Supraglottis T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	0	0	1
T1	81	6	1	0	5	2	1	0	0	1	0	97
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	1	0	0	0	0	0	0	0	0	0	0	1
T2	107	22(1)	1	5	33(4)	17(3)	7(1)	0	0	1	0	193
T3	68	37(1)	0	0	50(2)	26(1)	1	0	0	1	0	183
T4	1	0	0	0	1	0	0	0	0	0	0	2
T4a	32	8	0	0	32(3)	28(2)	4(2)	0	0	0	0	104
T4b	0	0	0	0	0	1	0	0	0	0	0	1
Tis	13	0	0	0	0	0	0	0	0	0	0	13
TX	0	0	0	0	0	0	0	0	0	1	1	2
T-	0	0	0	0	0	0	0	0	0	0	8	8
Total	304	73	2	5	121	74	13	0	0	4	9	605

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

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

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

Subglottis T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	2	0	0	0	1	0	0	0	0	0	0	3
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	27	0	0	0	0	0	0	0	0	0	0	27
T3	8	1	0	0	0	1	0	0	0	0	0	10
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	31	2	0	2	6	5	0	0	0	0	0	46
T4b	0	1(1)	0	0	1(1)	0	0	0	0	0	0	2
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	68	4	0	2	8	6	0	0	0	0	0	88

M1:2 cases. Number in parenthesis indicates number of M1 cases

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

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

Carcinoma of the Larynx, NOS T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	2	1	0	0	0	0	0	0	0	0	0	3
T1a	1	0	0	0	0	0	0	0	0	0	0	1
T1b	5	0	0	0	0	0	0	0	0	0	0	5
T2	3	1	0	0	0	0	0	0	0	0	0	4
T3	6	1	0	0	1	1	0	0	0	0	0	9
T4	1	0	0	0	1	0	0	0	0	0	0	2
T4a	5	1	0	0	4	2	0	0	0	0	0	12
T4b	0	0	0	0	0	0	0	0	0	0	0	0
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	2	0	2
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	23	4	0	0	6	3	0	0	0	2	0	38

M1:0 cases. Number in parenthesis indicates number of M1 cases

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

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

Treatment Method for the Primary Lesion by Subsite

Treatment Method	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Surgery					
without	1050	321	35	16	1422
with	530	261	50	21	862
unknown	51	23	3	1	78
Radiotherapy					
without	444	211	37	22	714
with	1136	371	48	15	1570
unknown	51	23	3	1	78
Chemotherapy					
without	1215	313	56	29	1613
with	365	269	29	8	671
unknown	51	23	3	1	78
Total	1631	605	88	38	2362

Treatment Method for the Primary Lesion by Subsite was not reported in 2 patients

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
No treatment	23	18	2	2	45
B) Rad. alone	736	95	14	7	852
A) Surg. alone	406	173	32	16	627
F)(Rad.+Chem.)	279	162	15	5	461
A)B) Surg.->Rad.	49	25	7	2	83
A)F) Surg.->(Rad.+Chem.)	19	19	4	0	42
C)F) Chem. -> (Rad.+Chem.)	7	31	3	0	41
C)A) Chem.->Surg.	12	7	2	0	21
F)A)(Rad.+Chem.)->Surg.	11	3	2	0	16
C) Chem. alone	6	6	0	1	13
Other	34	43	4	4	85
Unknown	51	23	3	1	78
Total	1633	605	88	38	2364

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Larynx ----- 2364cases

Treatment Method for the Primary Lesion by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	1	95	363	166	485	228	3	51	5	20	5	0	1422
with	2	67	139	30	131	226	10	196	1	48	10	2	862
unknown	0	5	11	6	20	13	0	4	0	1	2	16	78
Radiotherapy													
without	2	55	117	23	95	196	6	156	2	48	14	0	714
with	1	107	385	173	521	258	7	91	4	20	1	2	1570
unknown	0	5	11	6	20	13	0	4	0	1	2	16	78
Chemotherapy													
without	3	130	481	179	331	225	6	179	3	62	14	0	1613
with	0	32	21	17	285	229	7	68	3	6	1	2	671
unknown	0	5	11	6	20	13	0	4	0	1	2	16	78
Total	3	167	513	202	636	467	13	251	6	69	17	18	2362

Treatment Method for the Primary Lesion by Subsite was not reported in 2 patients

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	2	3	1	7	14	0	11	2	2	3	0	45
B) Rad. alone	1	69	345	150	225	40	0	7	0	13	1	1	852
A) Surg. alone	2	54	111	22	81	160	6	136	0	45	10	0	627
F)(Rad.+Chem.)	0	24	13	15	238	143	2	16	2	5	0	1	459
A)B) Surg.->Rad.	0	7	19	5	16	12	0	22	0	2	0	0	83
A)F) Surg.->(Rad.+Chem.)	0	0	0	2	10	14	0	16	0	0	0	0	42
C)F) Chem. -> (Rad.+Chem.)	0	0	0	0	11	20	1	8	1	0	0	0	41
C)A) Chem.->Surg.	0	0	1	0	2	14	0	3	0	1	0	0	21
F)A)(Rad.+Chem.)->Surg.	0	0	1	0	5	8	0	2	0	0	0	0	16
C) Chem. alone	0	0	1	0	2	4	0	5	0	0	1	0	13
Other	0	6	8	1	19	25	4	21	1	0	0	0	85
Unknown	0	5	11	6	20	13	0	4	0	1	2	16	78
Total	3	167	513	202	636	467	13	251	6	69	17	18	2362

Sequence of treatment methods was not reported in 2 patients

Glottis Treatment Method for the Primary Lesion by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	1	35	362	161	328	127	2	12	2	17	3	0	1050
with	1	27	139	29	72	133	7	75	1	38	8	0	530
unknown	0	2	11	6	12	5	0	2	0	1	2	10	51
Radiotherapy													
without	1	21	117	22	52	117	4	62	0	38	10	0	444
with	1	41	384	168	348	143	5	25	3	17	1	0	1136
unknown	0	2	11	6	12	5	0	2	0	1	2	10	51
Chemotherapy													
without	2	58	480	173	226	138	4	70	1	52	11	0	1215
with	0	4	21	17	174	122	5	17	2	3	0	0	365
unknown	0	2	11	6	12	5	0	2	0	1	2	10	51
Total	2	64	512	196	412	265	9	89	3	56	13	10	1631

Treatment Method for the Primary Lesion by T Classification was not reported in 2 patients

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

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	0	3	1	3	6	0	6	0	2	2	0	23
B) Rad. alone	1	35	344	145	170	25	0	2	0	13	1	0	736
A) Surg. alone	1	20	111	21	45	106	4	55	0	35	8	0	406
F)(Rad.+Chem.)	0	1	13	15	153	88	1	2	2	2	0	0	277
A)B) Surg.->Rad.	0	3	19	5	8	5	0	7	0	2	0	0	49
A)F) Surg.->(Rad.+Chem.)	0	0	0	2	5	6	0	6	0	0	0	0	19
C)A) Chem.->Surg.	0	0	1	0	2	7	0	1	0	1	0	0	12
F)A)(Rad.+Chem.)->Surg.	0	0	1	0	4	6	0	0	0	0	0	0	11
Other	0	3	9	1	10	11	4	8	1	0	0	0	47
Unknown	0	2	11	6	12	5	0	2	0	1	2	10	51
Total	2	64	512	196	412	265	9	89	3	56	13	10	1631

Sequence of Treatment Methods for the Primary Lesion by T Classification was not reported in 2 patients

Supraglottis
Treatment Method for the Primary Lesion
by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	0	56	0	1	135	94	1	29	1	3	1	0	321
with	1	38	0	0	53	82	1	73	0	10	1	2	261
unknown	0	3	0	0	5	7	0	2	0	0	0	6	23
Radiotherapy													
without	1	32	0	0	39	67	1	58	1	10	2	0	211
with	0	62	0	1	149	109	1	44	0	3	0	2	371
unknown	0	3	0	0	5	7	0	2	0	0	0	6	23
Chemotherapy													
without	1	67	0	1	88	77	1	66	1	10	1	0	313
with	0	27	0	0	100	99	1	36	0	3	1	4	271
unknown	0	3	0	0	5	7	0	2	0	0	0	6	23
Total	1	97	0	1	193	183	2	104	1	13	2	8	605

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

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	1	0	0	4	7	0	5	1	0	0	0	18
A) Surg. alone	1	33	0	0	32	47	1	48	0	10	1	0	173
F)(Rad.+Chem.)	0	22	0	0	75	51	1	9	0	3	0	1	162
B) Rad. alone	0	32	0	1	44	15	0	2	0	0	0	1	95
C)F) Chem. -> (Rad.+Chem.)	0	0	0	0	9	16	0	6	0	0	0	0	31
A)B) Surg.->Rad.	0	3	0	0	6	7	0	9	0	0	0	0	25
A)F) Surg.->(Rad.+Chem.)	0	0	0	0	5	7	0	7	0	0	0	0	19
Other	0	3	0	0	13	26	0	16	0	0	1	0	59
Unknown	0	3	0	0	5	7	0	2	0	0	0	6	23
Total	1	97	0	1	193	183	2	104	1	13	2	8	605

Subglottis
Treatment Method for the Primary Lesion
by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	0	3	0	0	19	3	0	8	2	0	0	0	35
with	0	0	0	0	5	7	0	38	0	0	0	0	50
unknown	0	0	0	0	3	0	0	0	0	0	0	0	3
Radiotherapy													
without	0	1	0	0	3	5	0	27	1	0	0	0	37
with	0	2	0	0	21	5	0	19	1	0	0	0	48
unknown	0	0	0	0	3	0	0	0	0	0	0	0	3
Chemotherapy													
without	0	2	0	0	15	5	0	33	1	0	0	0	56
with	0	1	0	0	9	5	0	13	1	0	0	0	29
unknown	0	0	0	0	3	0	0	0	0	0	0	0	3
Total	0	3	0	0	27	10	0	46	2	0	0	0	88

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

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
A) Surg. alone	0	0	0	0	3	5	0	24	0	0	0	0	32
F)(Rad.+Chem.)	0	1	0	0	8	3	0	3	0	0	0	0	15
B) Rad. alone	0	1	0	0	10	0	0	3	0	0	0	0	14
Other	0	1	0	0	6	2	0	16	2	0	0	0	27
Total	0	3	0	0	27	10	0	46	2	0	0	0	88

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

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	0	1	1	4	3	4	0	2	0	0	1	0	16
with	0	2	0	1	1	4	2	10	0	0	1	0	21
unknown	0	0	0	0	0	1	0	0	0	0	0	0	1
Radiotherapy													
without	0	1	0	1	1	7	1	9	0	0	2	0	22
with	0	2	1	4	3	1	1	3	0	0	0	0	15
unknown	0	0	0	0	0	1	0	0	0	0	0	0	1
Chemotherapy													
without	0	3	1	5	2	5	1	10	0	0	2	0	29
with	0	0	0	0	2	3	1	2	0	0	0	0	8
unknown	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	0	3	1	5	4	9	2	12	0	0	2	0	38

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

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
A) Surg. alone	0	1	0	1	1	2	1	9	0	0	1	0	16
B) Rad. alone	0	1	1	4	1	0	0	0	0	0	0	0	7
F)(Rad.+Chem.)	0	0	0	0	2	1	0	2	0	0	0	0	5
Other	0	1	0	0	0	6	1	1	0	0	1	0	10
Total	0	3	1	5	4	9	2	12	0	0	2	0	38

Surgical Methods for the Primary Lesion by Subsite

Surgical method	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
X0 No surgery	1047	319	35	16	1417
G5 Total laryngectomy	215	149	49	13	426
G2 Transoral resection	208	37	1	2	248
G1 Endoscopic resection	44	13	0	1	58
G3 Partial laryngectomy	21	9	0	1	31
+Others	35	45	0	4	84
V9 Unknown	63	32	3	1	99
Total	1633	604	88	38	2363

Surgical method for the Primary Lesion by Subsite was not reported in one patient

Surgical Methods for the Primary Lesion by T Classification

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	95	359	166	487	226	3	51	5	20	5	0	1417
G5 Total laryngectomy	0	3	2	1	51	192	8	168	0	0	1	0	426
G2 Transoral resection	0	37	103	17	49	3	0	0	0	35	4	0	248
G1 Endoscopic resection	2	7	21	8	7	0	0	0	0	11	2	0	58
G3 Partial laryngectomy	0	4	3	3	12	7	0	1	0	1	0	0	31
+Others	0	13	8	1	8	21	2	26	1	1	3	0	84
V9 Unknown	1	8	18	6	22	19	0	4	0	1	2	18	99
Total	3	167	514	202	636	468	13	250	6	69	17	18	2363

Surgical method for the Primary Lesion by T Classification was not reported in one patient

NOS: not otherwise specified.

T-: without reported T classification

Glottis

Surgical Methods for the Primary Lesion by T Classification

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	36	358	161	330	126	2	12	2	17	3	0	1047
F1 Endoscopic resection	0	0	1	0	0	0	0	0	0	0	0	0	1
F2 Transoral resection	0	2	2	0	0	1	0	0	0	0	0	0	5
F4 Total laryngectomy+Partial pharyngectomy	0	0	0	0	0	0	1	0	0	0	0	0	1
F5 Total pharyngolaryngectomy	0	1	0	0	0	0	0	1	0	0	0	0	2
F6 Total pharyngolaryngo-esophagectomy	0	0	0	0	1	0	1	2	0	0	0	0	4
G1 Endoscopic resection	1	2	21	8	3	0	0	0	0	7	2	0	44
G2 Transoral resection	0	19	103	16	32	3	0	0	0	31	4	0	208
G3 Partial laryngectomy	0	0	3	3	10	5	0	0	0	0	0	0	21
G4 Subtotal laryngectomy	0	0	0	0	1	4	0	0	0	0	0	0	5
G5 Total laryngectomy	0	0	2	1	20	115	5	71	0	0	1	0	215
G9 Laryngectomy, other type	0	2	4	1	2	1	0	1	1	0	1	0	13
+Others	0	0	1	0	0	3	0	0	0	0	0	0	4
V9 Unknown	1	2	18	6	13	8	0	2	0	1	2	10	63
Total	2	64	513	196	412	266	9	89	3	56	13	10	1633

T-: without reported T classification

Supraglottis

Surgical Methods for the Primary Lesion by T Classification

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	55	0	1	135	93	1	29	1	3	1	0	319
E1 Resection of the root of tongue 0	0	1	0	0	0	0	0	0	0	0	0	0	1
F1 Endoscopic resection	0	5	0	0	0	0	0	0	0	0	0	0	5
F2 Transoral resection	0	0	0	0	3	0	0	0	0	1	0	0	4
F3 Partial hypopharyngectomy	0	0	0	0	0	1	0	0	0	0	0	0	1
F4 Total laryngectomy+Partial pharyngectomy	0	0	0	0	0	1	0	0	0	0	0	0	1
F5 Total pharyngolaryngectomy	0	0	0	0	0	4	0	14	0	0	0	0	18
F6 Total pharyngolaryngo-esophagectomy	0	0	0	0	0	2	0	4	0	0	0	0	6
G1 Endoscopic resection	1	4	0	0	4	0	0	0	0	4	0	0	13
G2 Transoral resection	0	18	0	0	15	0	0	0	0	4	0	0	37
G3 Partial laryngectomy	0	4	0	0	2	2	0	0	0	1	0	0	9
G4 Subtotal laryngectomy	0	1	0	0	0	2	0	0	0	0	0	0	3
G5 Total laryngectomy	0	3	0	0	27	66	1	52	0	0	0	0	149
G9 Laryngectomy, other type	0	0	0	0	0	1	0	0	0	0	1	0	2
+Others	0	0	0	0	1	1	0	2	0	0	0	0	4
V9 Unknown	0	6	0	0	6	10	0	2	0	0	0	8	32
Total	1	97	0	1	193	183	2	103	1	13	2	8	604

T-: without reported T classification

Surgical method for the Primary Lesion by T Classification was not reported in one patient

Subglottis

Surgical Methods for the Primary Lesion by T Classification

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	3	0	0	19	3	0	8	2	0	0	0	35
G2 Transoral resection	0	0	0	0	1	0	0	0	0	0	0	0	1
G5 Total laryngectomy	0	0	0	0	4	7	0	38	0	0	0	0	49
V9 Unknown	0	0	0	0	3	0	0	0	0	0	0	0	3
Total	0	3	0	0	27	10	0	46	2	0	0	0	88

T-: without reported T classification

Carcinoma of the Larynx ----- 2364cases

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

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	1	1	4	3	4	0	2	0	0	1	0	16
F4 Total laryngectomy+Partial pharyngectomy	0	0	0	0	0	0	0	1	0	0	0	0	1
F5 Total pharyngolaryngectomy	0	0	0	0	0	0	0	1	0	0	0	0	1
F6 Total pharyngolaryngo-esophagectomy	0	1	0	0	0	0	0	0	0	0	0	0	1
G1 Endoscopic resection	0	1	0	0	0	0	0	0	0	0	0	0	1
G2 Transoral resection	0	0	0	1	1	0	0	0	0	0	0	0	2
G3 Partial laryngectomy	0	0	0	0	0	0	0	1	0	0	0	0	1
G4 Subtotal laryngectomy	0	0	0	0	0	0	0	0	0	0	1	0	1
G5 Total laryngectomy	0	0	0	0	0	4	2	7	0	0	0	0	13
V9 Unknown	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	0	3	1	5	4	9	2	12	0	0	2	0	38

NOS: not otherwise specified.

T-: without reported T classification

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
Surgery					
without	1372	376	43	24	1815
with	198	198	41	13	450
unknown	55	30	3	1	89
Radiotherapy					
without	1333	313	64	27	1737
with	237	261	20	10	528
unknown	55	30	3	1	89
Chemotherapy					
without	1419	351	69	29	1868
with	151	223	15	8	397
unknown	55	30	3	1	89
Total	1625	604	87	38	2354

NOS: not otherwise specified.

10 patients were no reported Treatment Method for the Cervical Lymph Node by Subsite.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No N.D.	1368	374	43	24	1809
1) Total N.D.	41	61	8	4	114
2) Selective N.D.	131	129	34	8	302
3) Lymph node excision	4	2	0	0	6
8) Others	12	4	0	1	17
9) Unknown	77	35	3	1	116
Total	1633	605	88	38	2364

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No N.D.	1434	435	52	28	1949
1) Total N.D.	22	17	6	0	45
2) Selective N.D.	85	113	27	8	233
3) Lymph node excision	2	2	0	0	4
8) Others	14	3	0	1	18
9) Unknown	76	35	3	1	115
Total	1633	605	88	38	2364

NOS: not otherwise specified.

N.D.: neck dissection

Reconstructive Surgery by Subsite

Reconststructive surgery	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No reconstruction	1536	518	84	34	2172
9) Unknown	75	37	3	1	116
B) Free jejunal flap	8	27	0	2	37
5) PM MC flap	5	9	1	0	15
2) Local skin flap	4	1	0	0	5
C) Free FA flap	0	5	0	0	5
E) Free ALT flap	2	2	0	1	5
4) DP flap	1	2	0	0	3
D) Free RA MC flap	0	2	0	0	2
8) Others	1	1	0	0	2
1) Skin graft	1	0	0	0	1
3) Mucosal flap	0	1	0	0	1
6) Others	0	0	0	0	0
7) Gastric pull-up	0	0	0	0	0
A) Others	0	0	0	0	0
F) Free scapular OC flap	0	0	0	0	0
G) Free fibular OC flap	0	0	0	0	0
H) Others	0	0	0	0	0
I) Free nerve graft	0	0	0	0	0
Total	1633	605	88	38	2364

NOS: not otherwise specified.

RA: rectus abdominis.

MC: musculocutaneous.

ALT: anterolateral thigh.

FA: forearm.

PM: pectoralis major.

OC: osteocutaneous.

DP: deltopectoral.

Radiotherapy by Subsite

Type of radiotherapy	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No radiotherapy	436	201	36	21	694
1) X-ray (and/or electron beam)	1130	373	49	15	1567
2) Particle beam	1	0	0	0	1
3) B.T.	0	0	0	0	0
4) X-ray + Particle beam	2	0	0	0	2
5) X-ray + B.T.	0	0	0	0	0
6) Particle beam + B.T.	0	0	0	0	0
7) X-ray + Particle beam + B.T.	0	0	0	0	0
8) Others	0	0	0	0	0
9) Unknown	64	31	3	2	100
Total	1633	605	88	38	2364

NOS: not otherwise specified

Chemotherapy by Subsite

Route of administration	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No chemotherapy	1213	307	56	29	1605
1) I.V.	275	245	21	8	549
2) I.A.	5	1	0	0	6
3) Oral	74	18	8	0	100
4) I.V.+I.A.	0	2	0	0	2
5) I.V.+Oral	5	4	0	0	9
6) I.A.+Oral	0	0	0	0	0
7) I.V.+I.A.+Oral	0	0	0	0	0
8) Others	0	0	0	0	0
9) Unknown	61	28	3	1	93
Total	1633	605	88	38	2364

NOS: not otherwise specified

Hypopharynx (2017)

2697 Cases

Primary Site

Site	Number of patients	(%)
Postericoid	265	(9.8)
Pyriform sinus	1875	(69.5)
Posterior wall	410	(15.2)
HypopharynxNOS	147	(5.5)
Total	2697	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	3	0	3
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	3	4	7
40 - 49	60	28	88
50 - 59	287	45	332
60 - 69	929	70	999
70 - 79	926	63	989
80 - 89	239	21	260
90 - 99	18	1	19
100 - 109	0	0	0
Total	2465	232	2697

NOS: not otherwise specified.

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	1	1
40 - 49	9	1	10
50 - 59	24	8	32
60 - 69	77	12	89
70 - 79	91	6	97
80 - 89	30	4	34
90 - 99	2	0	2
100 - 109	0	0	0
Total	233	32	265

Pyriiform sinus

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	3	0	3
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	2	3
40 - 49	42	14	56
50 - 59	214	30	244
60 - 69	663	38	701
70 - 79	640	32	672
80 - 89	171	11	182
90 - 99	14	0	14
100 - 109	0	0	0
Total	1748	127	1875

Posterior wall

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	7	11	18
50 - 59	35	6	41
60 - 69	134	14	148
70 - 79	149	19	168
80 - 89	27	6	33
90 - 99	1	0	1
100 - 109	0	0	0
Total	354	56	410

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	1	1	2
40 - 49	2	2	4
50 - 59	14	1	15
60 - 69	55	6	61
70 - 79	46	6	52
80 - 89	11	0	11
90 - 99	1	1	2
100 - 109	0	0	0
Total	130	17	147

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 2697 Cases

Histological Distribution by Subsite

Histologic.type	Postericoid (C13.0)	Pyriform sinus (C12.9)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Adenoca., NOS	0	1	0	0	1
Adenoid cystic ca.	0	1	0	0	1
Adenosquamous ca.	0	1	1	0	2
Basal cell ca., NOS	0	2	0	0	2
Basaloid S.C.C.	2	12	0	2	16
Ca., NOS	0	9	1	2	12
Liposarcoma, NOS	0	1	0	0	1
Lymphoepithelial ca.	0	6	0	0	6
Malig. lymphoma, NOS	0	1	0	0	1
Mucoepidermoid ca.	0	1	0	0	1
Myoepithelial ca.	0	1	0	0	1
Neoplasm, malig.	0	3	1	1	5
Papillary S.C.C.	0	2	1	0	3
Small cell ca., NOS	0	2	0	0	2
Spindle cell ca., NOS	0	3	0	0	3
S.C.C. in situ with questionable stromal invasion	0	1	0	0	1
S.C.C. in situ, NOS	5	93	28	8	134
S.C.C., kerat., NOS	7	48	12	2	69
S.C.C., large cell, nonkerat., NOS	1	20	2	0	23
S.C.C., microinvasive	1	10	3	4	18
S.C.C., NOS	249	1649	361	127	2386
S.C.C., small cell, nonkerat.	0	4	0	0	4
Transitional cell ca., NOS	0	0	0	1	1
Intraepithelial neoplasia, grade III	0	1	0	0	1
Lipoma-like liposarcoma Sclerosing liposarcoma Inflammatory liposarcoma	0	1	0	0	1
Neuroendocrine ca., NOS	0	2	0	0	2
Total	265	1875	410	147	2697

NOS: not otherwise specified.

ca., Ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

malig., Malig.: malignant.

kerat.: keratinizing.

nonkerat.: nonkeratinizing.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	0	0	1
T1	360(1)	26	1	11(1)	40(2)	7	10(2)	0	1	5	0	461
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	439	110(1)	1	20	219(11)	77(3)	21(2)	0	0	1	0	888
T3	140(1)	59(1)	5(1)	10(2)	164(9)	117(19)	18(6)	0	1(1)	3	0	517
T4	4	3	0	1	6	4(4)	1	0	0	0	1	20
T4a	89(3)	58(4)	2	9	227(18)	132(20)	19(5)	0	0	0	0	536
T4b	8(1)	3	0	3	17(2)	33(11)	6(3)	0	0	0	0	70
Tis	165	0	0	0	1	0	0	0	0	0	0	166
TX	8	0	1	0	3	1	0	0	0	4(1)	0	17
T-	0	0	0	0	0	0	0	0	0	0	21	21
Total	1214	259	10	54	677	371	75	0	2	13	22	2697

M1:136cases. Number in parenthesis indicate numbers of M1 cases

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

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

Posterioricoid

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	28	3	0	1	3	1	0	0	0	1	0	37
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	49	12	0	6	24	17	3(1)	0	0	0	0	111
T3	16	8	0	1	16(2)	18(4)	2	0	0	1	0	62
T4	0	1	0	0	0	2(2)	0	0	0	0	0	3
T4a	6(1)	4	0	2	10	15(1)	1	0	0	0	0	38
T4b	0	1	0	0	0	3(1)	0	0	0	0	0	4
Tis	8	0	0	0	0	0	0	0	0	0	0	8
TX	1	0	0	0	0	0	0	0	0	0	0	1
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	108	29	0	10	53	56	6	0	0	2	1	265

M1:12cases. Number in parenthesis indicates number of M1 cases

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

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

Pyramiform sinus

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	0	0	1
T1	251(1)	19	0	10(1)	27(2)	4	9	0	1	3	0	324
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	296	84(1)	0	12	163(9)	36(2)	15(1)	0	0	1	0	607
T3	77	42(1)	3(1)	5(1)	127(4)	66(8)	15(6)	0	0	1	0	336
T4	4	2	0	1	5	1(1)	0	0	0	0	1	14
T4a	64(1)	49(3)	2	7	190(16)	86(15)	14(4)	0	0	0	0	412
T4b	5(1)	0	0	2	13(2)	17(5)	3(2)	0	0	0	0	40
Tis	116	0	0	0	0	0	0	0	0	0	0	116
TX	5	0	0	0	0	1(1)	0	0	0	3(1)	0	9
T-	0	0	0	0	0	0	0	0	0	0	16	16
Total	819	196	5	37	525	211	56	0	1	8	17	1875

M1:91cases. Number in parenthesis indicates number of M1 cases

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

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

Posterior wall

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	62	4	1	0	6	2	0	0	0	1	0	76
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	73	8	0	2	20(2)	21	2	0	0	0	0	126
T3	39(1)	4	2	4(1)	11(3)	26(4)	1	0	0	1	0	88
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	16	4(1)	0	0	14(1)	22(2)	3	0	0	0	0	59
T4b	3	2	0	0	4	10(2)	2(1)	0	0	0	0	21
Tis	33	0	0	0	1	0	0	0	0	0	0	34
TX	2	0	0	0	1	0	0	0	0	0	0	3
T-	0	0	0	0	0	0	0	0	0	0	3	3
Total	228	22	3	6	57	81	8	0	0	2	3	410

M1:18cases. Number in parenthesis indicates number of M1 cases

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

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

Hypopharynx, NOS

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	19	0	0	0	4	0	1	0	0	0	0	24
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	21	6	1	0	12	3	1	0	0	0	0	44
T3	8	5	0	0	10	7	0	0	1	0	0	31
T4	0	0	0	0	1	1	1	0	0	0	0	3
T4a	3	1	0	0	13	9	1	0	0	0	0	27
T4b	0	0	0	1	0	3	1	0	0	0	0	5
Tis	8	0	0	0	0	0	0	0	0	0	0	8
TX	0	0	1	0	2	0	0	0	0	1	0	4
T-	0	0	0	0	0	0	0	0	0	0	1	1
Total	59	12	2	1	42	23	5	0	1	1	1	147

M1:0 cases. Numbers in parenthesis indicates number of M1 cases.

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

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

Treatment Method for the Primary Lesion by Subsite

Treatment Method	Posterioricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
without	142	895	190	75	1302
with	116	893	206	66	1281
unknown	5	76	12	5	98
Radiotherapy					
without	96	764	181	67	1108
with	162	1024	215	74	1475
unknown	5	76	12	5	98
Chemotherapy					
without	113	869	207	70	1259
with	145	919	189	71	1324
unknown	5	76	12	5	98
Total	263	1864	408	146	2681

Treatment Method for the Primary Lesion by Subsite was not reported in 16 patients

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Postcricoid	Pyriiform sinus	Posterior wall	Hypopharynx NOS	Total
Surgery					
without	165	1153	284	98	1700
with	94	636	108	44	882
unknown	6	80	15	5	106
Radiotherapy					
without	118	913	225	80	1336
with	141	876	167	62	1246
unknown	6	80	15	5	106
Chemotherapy					
without	134	955	242	76	1407
with	125	834	150	66	1175
unknown	6	80	15	5	106
Total	265	1869	407	147	2688

Treatment Method for the Cervical Lymph Node by Subsite was not reported in 9 patients

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 2697 Cases

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Posterioricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
No treatment	7	47	11	7	72
A) Surg. alone	68	561	140	47	816
F)(Rad.+Chem.)	71	420	94	34	619
B) Rad. alone	30	197	39	11	277
C)F) Chem. -> (Rad.+Chem.)	15	113	18	11	157
A)F) Surg.->(Rad.+Chem.)	17	87	14	6	124
C)A) Chem.->Surg.	6	64	13	3	86
A)B) Surg.->Rad.	7	50	20	3	80
C) Chem. alone	5	57	13	5	80
C)A)F) Chem.->Surg.->(Rad.+Chem.)	5	19	5	0	29
F)A)(Rad.+Chem.)->Surg.	1	24	2	1	28
F)C)(Rad.+Chem.)->Chem.	0	14	8	2	24
C)B) Chem.->Rad.	5	16	1	1	23
C)A)B) Chem.->Surg.->Rad.	1	15	2	2	20
A)C) Surg. -> Chem	4	9	3	0	16
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	3	4	4	0	11
C)C)F) Chem.->Chem.->(Rad.+Chem.)	2	7	1	0	10
C)C) Chem.->Chem.	1	5	0	3	9
C)C)C) Chem.->Chem.->Chem.	1	5	1	0	7
A)F)C) Surg.->(Rad.+Chem.)->Chem.	0	4	1	1	6
B)A) Rad.->Surg.	0	6	0	0	6
C)A)C) Chem.->Surg.->Chem.	1	5	0	0	6
A)A) Surg.->Surg.	0	2	2	1	5
C)F)A) Chem.-> (Rad.+Chem.)->Surg.	0	4	1	0	5
Other	8	53	3	3	67
Unknown	5	76	12	5	98
Total	263	1864	408	146	2681

Sequence of treatment method by Subsite was not reported in 16 patients

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Treatment Method for the Primary Lesion by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	0	149	0	0	578	260	13	214	61	19	6	2	1302
with	1	291	0	0	280	235	6	307	7	144	9	1	1281
unknown	0	15	0	0	23	22	0	14	2	3	1	18	98
Radiotherapy													
without	1	286	0	0	236	166	5	234	18	151	11	0	1108
with	0	154	0	0	622	329	14	287	50	12	4	3	1475
unknown	0	15	0	0	23	22	0	14	2	3	1	18	98
Chemotherapy													
without	1	327	0	0	358	178	7	212	16	150	10	0	1259
with	0	113	0	0	500	317	12	309	52	13	5	3	1324
unknown	0	15	0	0	23	22	0	14	2	3	1	18	98
Total	1	455	0	0	881	517	19	535	70	166	16	21	2681

T-: without reported T classification

Treatment Method for the Primary Lesion by T Classification was not reported in 16 patients

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	4	0	0	14	18	2	25	5	3	1	0	72
A) Surg. alone	1	266	0	0	177	92	1	130	2	137	9	1	816
F)(Rad.+Chem.)	0	68	0	0	318	129	5	68	22	3	4	2	619
B) Rad. alone	0	47	0	0	149	40	2	25	7	7	0	0	277
C)F) Chem. -> (Rad.+Chem.)	0	14	0	0	55	39	2	38	9	0	0	0	157
A)F) Surg.->(Rad.+Chem.)	0	2	0	0	28	44	1	48	0	1	0	0	124
C)A) Chem.->Surg.	0	7	0	0	23	22	1	30	2	1	0	0	86
A)B) Surg.->Rad.	0	8	0	0	18	22	2	27	2	1	0	0	80
C) Chem. alone	0	8	0	0	12	16	1	29	8	6	0	0	80
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	2	11	0	16	0	0	0	0	29
F)A)(Rad.+Chem.)->Surg.	0	2	0	0	10	8	0	8	0	0	0	0	28
F)C)(Rad.+Chem.)->Chem.	0	5	0	0	8	2	0	5	4	0	0	0	24
C)B) Chem.->Rad.	0	0	0	0	8	6	0	9	0	0	0	0	23
C)A)B) Chem.->Surg.->Rad.	0	0	0	0	3	6	1	10	0	0	0	0	20
A)C) Surg. -> Chem	0	1	0	0	4	5	0	5	0	1	0	0	16
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	0	0	0	0	5	0	1	4	1	0	0	0	11
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	0	0	0	4	3	0	3	0	0	0	0	10
Other	0	8	0	0	20	32	0	41	6	3	1	0	111
Unknown	0	15	0	0	23	22	0	14	2	3	1	18	98
Total	1	455	0	0	881	517	19	535	70	166	16	21	2681

T-: without reported T classification

Sequence of Treatment Methods for the Primary Lesion by T Classification 16 patients were no reported

Postcricoid

Treatment Method for the Primary Lesion by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	0	16	0	0	76	29	2	15	3	1	0	0	142
with	0	18	0	0	33	32	1	23	1	7	1	0	116
unknown	0	2	0	0	1	1	0	0	0	0	0	1	5
Radiotherapy													
without	0	18	0	0	27	24	1	16	2	7	1	0	96
with	0	16	0	0	82	37	2	22	2	1	0	0	162
unknown	0	2	0	0	1	1	0	0	0	0	0	1	5
Chemotherapy													
without	0	28	0	0	40	19	0	13	4	8	1	0	113
with	0	6	0	0	69	42	3	25	0	0	0	0	145
unknown	0	2	0	0	1	1	0	0	0	0	0	1	5
Total	0	36	0	0	110	62	3	38	4	8	1	1	263

T-: without reported T classification

Treatment Method for the Primary Lesion by T Classification was not reported in 2 patients

Postcricoid

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	0	0	0	2	3	0	1	1	0	0	0	7
F)(Rad.+Chem.)	0	6	0	0	44	13	0	8	0	0	0	0	71
A) Surg. alone	0	18	0	0	20	11	0	10	1	7	1	0	68
B) Rad. alone	0	10	0	0	13	3	0	1	2	1	0	0	30
A)F) Surg.->(Rad.+Chem.)	0	0	0	0	3	9	0	5	0	0	0	0	17
C)F) Chem. -> (Rad.+Chem.)	0	0	0	0	10	3	1	1	0	0	0	0	15
A)B) Surg.->Rad.	0	0	0	0	4	2	0	1	0	0	0	0	7
C)A) Chem.->Surg.	0	0	0	0	1	2	1	2	0	0	0	0	6
C) Chem. alone	0	0	0	0	0	4	0	1	0	0	0	0	5
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	1	3	0	1	0	0	0	0	5
C)B) Chem.->Rad.	0	0	0	0	2	1	0	2	0	0	0	0	5
A)C) Surg. -> Chem	0	0	0	0	2	1	0	1	0	0	0	0	4
Other	0	0	0	0	7	6	1	4	0	0	0	0	18
Unknown	0	2	0	0	1	1	0	0	0	0	0	1	5
Total	0	36	0	0	110	62	3	38	4	8	1	1	263

T-: without reported T classification

Sequence of Treatment Methods for the Primary Lesion by T Classification was not reported in 2 patients

Pyramidal sinus

Treatment Method for the Primary Lesion by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	0	108	0	0	400	160	8	165	33	16	3	2	895
with	1	201	0	0	184	157	5	236	5	98	5	1	893
unknown	0	10	0	0	19	19	0	10	2	2	1	13	76
Radiotherapy													
without	1	195	0	0	158	104	3	179	14	104	6	0	764
with	0	114	0	0	426	213	10	222	24	10	2	3	1024
unknown	0	10	0	0	19	19	0	10	2	2	1	13	76
Chemotherapy													
without	1	226	0	0	244	117	7	158	9	102	5	0	869
with	0	83	0	0	340	200	6	243	29	12	3	3	919
unknown	0	10	0	0	19	19	0	10	2	2	1	13	76
Total	1	319	0	0	603	336	13	411	40	116	9	16	1864

T-: without reported T classification

Treatment Method for the Primary Lesion by T Classification was not reported in 11 patients

Pyriiform sinus

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	1	0	0	10	11	2	18	3	2	0	0	47
A) Surg. alone	1	182	0	0	118	61	1	98	1	93	5	1	561
F)(Rad.+Chem.)	0	48	0	0	220	79	3	52	12	2	2	2	420
B) Rad. alone	0	34	0	0	107	24	2	21	3	6	0	0	197
C)F) Chem. -> (Rad.+Chem.)	0	12	0	0	38	28	1	31	3	0	0	0	113
A)F) Surg.->(Rad.+Chem.)	0	2	0	0	17	28	1	38	0	1	0	0	87
C)A) Chem.->Surg.	0	4	0	0	14	18	0	25	2	1	0	0	64
C) Chem. alone	0	6	0	0	11	5	0	22	7	6	0	0	57
A)B) Surg.->Rad.	0	6	0	0	9	14	2	16	2	1	0	0	50
F)A)(Rad.+Chem.)->Surg.	0	1	0	0	10	6	0	7	0	0	0	0	24
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	1	6	0	12	0	0	0	0	19
C)B) Chem.->Rad.	0	0	0	0	5	5	0	6	0	0	0	0	16
C)A)B) Chem.->Surg.->Rad.	0	0	0	0	2	4	1	8	0	0	0	0	15
F)C)(Rad.+Chem.)->Chem.	0	5	0	0	3	2	0	3	1	0	0	0	14
A)C) Surg. -> Chem	0	1	0	0	1	3	0	3	0	1	0	0	9
Other	0	7	0	0	18	23	0	41	4	1	1	0	95
Unknown	0	10	0	0	19	19	0	10	2	2	1	13	76
Total	1	319	0	0	603	336	13	411	40	116	9	16	1864

T-: without reported T classification

Sequence of Treatment Methods for the Primary Lesion by T Classification was not reported in 11 patients

Posterior wall

Treatment Method for the Primary Lesion by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	0	21	0	0	75	50	0	21	20	2	1	0	190
with	0	52	0	0	47	37	0	36	1	31	2	0	206
unknown	0	3	0	0	2	1	0	2	0	1	0	3	12
Radiotherapy													
without	0	52	0	0	38	29	0	28	0	32	2	0	181
with	0	21	0	0	84	58	0	29	21	1	1	0	215
unknown	0	3	0	0	2	1	0	2	0	1	0	3	12
Chemotherapy													
without	0	54	0	0	55	34	0	29	1	32	2	0	207
with	0	19	0	0	67	53	0	28	20	1	1	0	189
unknown	0	3	0	0	2	1	0	2	0	1	0	3	12
Total	0	76	0	0	124	88	0	59	21	34	3	3	408

T-: without reported T classification

Treatment Method for the Primary Lesion by T Classification was not reported in 2 patients

Posterior wall

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	3	0	0	1	2	0	4	0	1	0	0	11
A) Surg. alone	0	48	0	0	28	17	0	16	0	29	2	0	140
F)(Rad.+Chem.)	0	11	0	0	38	29	0	4	10	1	1	0	94
B) Rad. alone	0	3	0	0	23	11	0	1	1	0	0	0	39
Other	0	1	0	0	6	4	0	5	3	2	0	0	21
A)B) Surg.->Rad.	0	2	0	0	4	6	0	8	0	0	0	0	20
C)F) Chem. -> (Rad.+Chem.)	0	2	0	0	5	2	0	5	4	0	0	0	18
A)F) Surg.->(Rad.+Chem.)	0	0	0	0	4	6	0	4	0	0	0	0	14
C) Chem. alone	0	2	0	0	0	6	0	5	0	0	0	0	13
C)A) Chem.->Surg.	0	1	0	0	8	2	0	2	0	0	0	0	13
F)C)(Rad.+Chem.)->Chem.	0	0	0	0	5	0	0	0	3	0	0	0	8
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	0	2	0	3	0	0	0	0	5
Other	0	1	0	0	6	4	0	5	3	2	0	0	21
Unknown	0	3	0	0	2	1	0	2	0	1	0	3	12
Total	0	76	0	0	124	88	0	59	21	34	3	3	408

T-: without reported T classification

Sequence of Treatment Methods for the Primary Lesion by T Classification was not reported in 2 patients

Hypopharynx, NOS

Treatment Method for the Primary Lesion by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
Surgery													
without	0	4	0	0	27	21	3	13	5	0	2	0	75
with	0	20	0	0	16	9	0	12	0	8	1	0	66
unknown	0	0	0	0	1	1	0	2	0	0	0	1	5
Radiotherapy													
without	0	21	0	0	13	9	1	11	2	8	2	0	67
with	0	3	0	0	30	21	2	14	3	0	1	0	74
unknown	0	0	0	0	1	1	0	2	0	0	0	1	5
Chemotherapy													
without	0	19	0	0	19	8	0	12	2	8	2	0	70
with	0	5	0	0	24	22	3	13	3	0	1	0	71
unknown	0	0	0	0	1	1	0	2	0	0	0	1	5
Total	0	24	0	0	44	31	3	27	5	8	3	1	146

NOS: not otherwise specified.

T-: without reported T classification

Treatment Method for the Primary Lesion by T Classification was not reported in one patient

Hypopharynx, NOS

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	0	0	0	1	2	0	2	1	0	1	0	7
A) Surg. alone	0	18	0	0	11	3	0	6	0	8	1	0	47
F)(Rad.+Chem.)	0	3	0	0	16	8	2	4	0	0	1	0	34
B) Rad. alone	0	0	0	0	6	2	0	2	1	0	0	0	11
C)F) Chem. -> (Rad.+Chem.)	0	0	0	0	2	6	0	1	2	0	0	0	11
A)F) Surg.->(Rad.+Chem.)	0	0	0	0	4	1	0	1	0	0	0	0	6
C) Chem. alone	0	0	0	0	1	1	1	1	1	0	0	0	5
Other	0	3	0	0	2	7	0	8	0	0	0	0	20
Unknown	0	0	0	0	1	1	0	2	0	0	0	1	5
Total	0	24	0	0	44	31	3	27	5	8	3	1	146

NOS: not otherwise specified.

T-: without reported T classification

Sequence of Treatment Methods for the Primary Lesion by T Classification was not reported in one patient

Surgical Methods for the Primary Lesion by Subsite

Surgical method	Posterioricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
X0 No surgery	900	144	192	75	1311
F5 Total pharyngolaryngectomy	281	36	57	8	382
F2 Transoral resection	188	22	70	4	284
F1 Endoscopic resection	167	17	36	25	245
F6 Total pharyngolaryngo-esophagectomy	111	16	25	13	165
F4 Total laryngectomy+Partial pharyngectomy	36	10	2	0	48
F3 Partial hypopharyngectomy	28	3	1	1	33
G1 Endoscopic resection	15	0	4	2	21
+Others	54	10	7	13	84
V9 Unknown	95	7	16	6	124
Total	1875	265	410	147	2697

NOS: not otherwise specified.

Surgical Methods for the Primary Lesion by T Classification

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	155	0	0	582	257	14	216	61	18	7	1	1311
F5 Total pharyngolaryngectomy	0	4	0	0	55	140	4	173	6	0	0	0	382
F2 Transoral resection	0	122	0	0	82	8	0	2	0	67	3	0	284
F1 Endoscopic resection	1	139	0	0	36	7	0	0	0	59	2	1	245
F6 Total pharyngolaryngo-esophagectomy	0	0	0	0	26	45	0	92	1	1	0	0	165
F4 Total laryngectomy+Partial pharyngectomy	0	1	0	0	21	10	0	16	0	0	0	0	48
F3 Partial hypopharyngectomy	0	1	0	0	26	3	0	2	0	1	0	0	33
G1 Endoscopic resection	0	11	0	0	2	0	0	0	0	7	1	0	21
+Others	0	11	0	0	25	18	2	16	0	9	3	0	84
V9 Unknown	0	17	0	0	33	29	0	19	2	4	1	19	124
Total	1	461	0	0	888	517	20	536	70	166	17	21	2697

T-: without reported T classification

Postcricoid

Surgical Methods for the Primary Lesion by T Classification

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	17	0	0	77	29	2	15	3	1	0	0	144
F1 Endoscopic resection	0	8	0	0	3	2	0	0	0	3	1	0	17
F2 Transoral resection	0	9	0	0	8	1	0	0	0	4	0	0	22
F3 Partial hypopharyngectomy	0	0	0	0	1	2	0	0	0	0	0	0	3
F4 Total laryngectomy+Partial pharyngectomy	0	0	0	0	5	3	0	2	0	0	0	0	10
F5 Total pharyngolaryngectomy	0	0	0	0	9	13	1	13	0	0	0	0	36
F6 Total pharyngolaryngo-esophagectomy	0	0	0	0	4	6	0	5	1	0	0	0	16
F7 Hypopharyngectomy + Cervical esophagec	0	0	0	0	1	1	0	0	0	0	0	0	2
G2 Transoral resection	0	0	0	0	1	0	0	0	0	0	0	0	1
G5 Total laryngectomy	0	1	0	0	0	1	0	1	0	0	0	0	3
G9 Laryngectomy, other type	0	0	0	0	0	1	0	0	0	0	0	0	1
+ Others	0	0	0	0	0	1	0	2	0	0	0	0	3
V9 Unknown	0	2	0	0	2	2	0	0	0	0	0	1	7
Total	0	37	0	0	111	62	3	38	4	8	1	1	265

T-: without reported T classification

Pyriiform sinus

Surgical Methods for the Primary Lesion by T Classification

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	113	0	0	402	157	9	167	33	15	3	1	900
A5 Subtotal glossectomy	0	1	0	0	0	1	0	0	0	0	0	0	2
D2 Total maxillectomy	0	0	0	0	0	0	0	1	0	0	0	0	1
E1 Resection of the root of tongue	0	1	0	0	0	0	0	0	0	0	0	0	1
E2 Resection of the base of tongue and epiglottis	0	1	0	0	0	0	0	0	0	0	0	0	1
E3 Unilateral resection of the lateral wall of the oropharynx	0	0	0	0	1	0	0	0	0	0	0	0	1
E5 Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	0	0	0	0	0	0	0	2	0	0	0	0	2
F1 Endoscopic resection	1	101	0	0	22	2	0	0	0	40	0	1	167
F2 Transoral resection	0	80	0	0	57	5	0	2	0	42	2	0	188
F3 Partial hypopharyngectomy	0	1	0	0	24	0	0	2	0	1	0	0	28
F4 Total laryngectomy+Partial pharyngectomy	0	1	0	0	16	6	0	13	0	0	0	0	36
F5 Total pharyngolaryngectomy	0	3	0	0	34	100	3	136	5	0	0	0	281
F6 Total pharyngolaryngo-esophagectomy	0	0	0	0	11	30	0	69	0	1	0	0	111
F7 Hypopharyngectomy + Cervical esophagec	0	1	0	0	0	5	2	2	0	0	0	0	10
G1 Endoscopic resection	0	6	0	0	2	0	0	0	0	6	1	0	15
G2 Transoral resection	0	4	0	0	3	0	0	0	0	6	0	0	13
G5 Total laryngectomy	0	0	0	0	6	1	0	2	0	0	2	0	11
+ Others	0	0	0	0	3	5	0	2	0	2	0	0	12
V9 Unknown	0	11	0	0	26	24	0	14	2	3	1	14	95
Total	1	324	0	0	607	336	14	412	40	116	9	16	1875

T-: without reported T classification

Posterior wall

Surgical Methods for the Primary Lesion by T Classification

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	21	0	0	77	50	0	21	20	2	1	0	192
F1 Endoscopic resection	0	17	0	0	7	2	0	0	0	9	1	0	36
F2 Transoral resection	0	31	0	0	17	1	0	0	0	20	1	0	70
F3 Partial hypopharyngectomy	0	0	0	0	1	0	0	0	0	0	0	0	1
F4 Total laryngectomy+Partial pharyngectomy	0	0	0	0	0	1	0	1	0	0	0	0	2
F5 Total pharyngolaryngectomy	0	0	0	0	10	25	0	21	1	0	0	0	57
F6 Total pharyngolaryngo-esophagectomy	0	0	0	0	7	6	0	12	0	0	0	0	25
F7 Hypopharyngectomy + Cervical esophagec	0	0	0	0	1	0	0	0	0	0	0	0	1
G1 Endoscopic resection	0	3	0	0	0	0	0	0	0	1	0	0	4
G2 Transoral resection	0	0	0	0	1	0	0	0	0	1	0	0	2
G5 Total laryngectomy	0	0	0	0	0	1	0	1	0	0	0	0	2
F9 Others	0	0	0	0	2	0	0	0	0	0	0	0	2
V9 Unknown	0	4	0	0	3	2	0	3	0	1	0	3	16
Total	0	76	0	0	126	88	0	59	21	34	3	3	410

T-: without reported T classification

Hypopharynx, NOS

Surgical Methods for the Primary Lesion by T Classification

Surgical method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
X0 No surgery	0	4	0	0	26	21	3	13	5	0	3	0	75
C2 Resection of the floor of mouth	0	1	0	0	0	0	0	0	0	0	0	0	1
F1 Endoscopic resection	0	13	0	0	4	1	0	0	0	7	0	0	25
F2 Transoral resection	0	2	0	0	0	1	0	0	0	1	0	0	4
F3 Partial hypopharyngectomy	0	0	0	0	0	1	0	0	0	0	0	0	1
F5 Total pharyngolaryngectomy	0	1	0	0	2	2	0	3	0	0	0	0	8
F6 Total pharyngolaryngo-esophagectomy	0	0	0	0	4	3	0	6	0	0	0	0	13
F7 Hypopharyngectomy + Cervical esophagec	0	0	0	0	2	1	0	1	0	0	0	0	4
G1 Endoscopic resection	0	2	0	0	0	0	0	0	0	0	0	0	2
G5 Total laryngectomy	0	0	0	0	2	0	0	2	0	0	0	0	4
F9 Others	0	1	0	0	2	0	0	0	0	0	1	0	4
V9 Unknown	0	0	0	0	2	1	0	2	0	0	0	1	6
Total	0	24	0	0	44	31	3	27	5	8	4	1	147

NOS: not otherwise specified.

T-: without reported T classification

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Postericoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	165	1153	290	97	1705
1) Total N.D.	35	211	35	12	293
2) Selective N.D.	55	405	66	28	554
3) Lymph node excision	0	1	0	0	1
8) Others	4	10	1	4	19
9) Unknown	6	95	18	6	125
Total	265	1875	410	147	2697

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) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	192	1358	308	113	1971
1) Total N.D.	20	88	17	7	132
2) Selective N.D.	43	323	65	16	447
3) Lymph node excision	0	0	0	0	0
8) Others	4	10	1	5	20
9) Unknown	6	96	19	6	127
Total	265	1875	410	147	2697

NOS: not otherwise specified.

N.D.: neck dissection.

Carcinoma of the Hypopharynx ----- 2697 Cases

Reconstructive Surgery by Subsite

Reconstructive surgery	Postericoid (C13.0)	Pyriform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No reconstruction	194	1336	305	116	1951
B) Free jejunal flap	50	365	77	18	510
E) Free ALT flap	1	19	4	0	24
5) PM MC flap	4	14	1	1	20
7) Gastric pull-up	3	11	2	3	19
C) Free FA flap	2	12	1	0	15
2) Local skin flap	1	4	0	0	5
D) Free RA MC flap	0	2	0	3	5
3) Mucosal flap	0	4	0	0	4
4) DP flap	0	3	0	0	3
F) Free scapular OC flap	1	0	0	0	1
G) Free fibular OC flap	0	1	0	0	1
I) Free nerve graft	1	0	0	0	1
1) Skin graft	0	0	0	0	0
8) Others	1	4	1	0	6
9) Unknown	7	100	19	6	132
Total	265	1875	410	147	2697

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

Radiotherapy by Subsite

Type of radiotherapy	Posterioricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No radiotherapy	91	728	177	64	1060
1) X-ray (and/or electron beam)	168	1053	217	77	1515
2) Particle beam	0	1	1	0	2
3) B.T.	0	0	0	0	0
4) X-ray + Particle beam	0	0	0	0	0
5) X-ray + B.T.	0	0	0	0	0
6) Particl beam + B.T.	0	0	0	0	0
7) X-ray + Particl beam + B.T.	0	0	0	0	0
8) Others	0	0	0	0	0
9) Unknown	6	93	15	6	120
Total	265	1875	410	147	2697

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Posterioricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No chemotherapy	112	852	203	69	1236
1) I.V.	133	869	175	69	1246
2) I.A.	0	8	0	1	9
3) Oral	7	34	9	0	50
4) I.V.+I.A.	1	1	1	0	3
5) I.V.+Oral	7	24	6	3	40
6) I.A.+Oral	0	1	1	0	2
7) I.V.+I.A.+Oral	0	0	0	0	0
8) Others	0	0	0	0	0
9) Unknown	5	86	15	5	111
Total	265	1875	410	147	2697

NOS: not otherwise specified.

Oropharynx (2017)

2143 Cases

Primary Site

Site	Number of patients	(%)
Superiorwall	183	(8.5)
Lateralwall	1247	(58.2)
Posteriorwall	165	(7.7)
Anteriorwall	483	(22.5)
OropharynxNOS	65	(3.0)
Total	2143	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	0	0
20 - 29	0	2	2
30 - 39	17	8	25
40 - 49	120	42	162
50 - 59	290	68	358
60 - 69	639	111	750
70 - 79	524	106	630
80 - 89	160	44	204
90 - 99	10	1	11
100 - 109	0	0	0
Total	1761	382	2143

Carcinoma of the Oropharynx ----- 2143 Cases

Histological Distribution by Subsite

Histologic type	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Acinar cell ca.	0	1	0	0	0	1
Adenoca., NOS	2	1	0	3	0	6
Adenoid cystic ca.	5	0	0	8	0	13
Adenosquamous ca.	0	0	0	1	0	1
Basal cell ca., NOS	1	0	0	0	0	1
Basaloid S.C.C.	0	1	1	2	0	4
Carcinoid tumor, NOS	0	1	0	0	0	1
Ca. ex pleomorphic adenoma	1	0	0	0	0	1
Ca., NOS	2	4	0	2	1	9
Carcinosarcoma, NOS	0	0	0	1	0	1
Clear cell ca., NOS	0	0	0	1	0	1
Epithelial-myoepithelial ca.	0	0	0	1	0	1
Fibrosarcoma, NOS	0	0	1	0	0	1
Large cell ca., NOS	0	1	0	0	0	1
Lymphoepithelial ca.	0	3	0	1	0	4
Malig.lymphoma, NOS	0	2	1	2	0	5
Malig.melanoma, NOS	1	0	0	0	0	1
Mucoepidermoid ca.	5	6	0	5	0	16
Neoplasm, malignant	0	1	0	2	0	3
Papillary S.C.C.	0	5	0	3	0	8
Plasmacytoma, NOS	0	1	0	0	0	1
Rhabdomyosarcoma, NOS	0	0	0	1	0	1
Salivary duct ca.	1	0	0	1	0	2
Small cell ca., NOS	1	2	0	2	0	5
Spindle cell ca., NOS	0	4	1	2	0	7
S.C.C. in situ, NOS	11	13	19	5	2	50
S.C.C., kerat., NOS	3	24	3	7	0	37
S.C.C., large cell, nonkerat., NOS	0	26	1	2	0	29
S.C.C., microinvasive	3	3	2	1	0	9
S.C.C., NOS	146	1135	136	425	61	1903
S.C.C., small cell, nonkerat.	0	3	0	1	0	4
S.C.C., spindle cell	0	1	0	0	0	1
Verrucous ca., NOS	1	0	0	0	0	1
Malig.lymphoma, large B-cell, diffuse, NOS	0	8	0	3	1	12
Follicular lymphoma, grade I	0	0	0	1	0	1
B cell lymphoma, NOS	0	1	0	0	0	1
Total	183	1247	165	483	65	2143

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

S.C.C.: squamous cell carcinoma.
kerat.: keratinizing.

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

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	2	0	0	3	4	0	0	0	0	0	0	9
T1	223	48	3	35(1)	91(3)	18	7	0	0	2	0	427
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	263(1)	141	9	41(2)	279(7)	88(3)	17(2)	0	0	1	2	841
T3	81	53(1)	7(2)	9	101(2)	75(7)	11(3)	0	0	0	0	337
T4	2	3	7	0	5	5	3	0	0	0	0	25
T4a	47(2)	40(1)	2	7	124(7)	86(13)	11(2)	0	0	1	0	318
T4b	8	9	1	0	16(1)	30(2)	6	0	0	0	0	70
Tis	51	1	0	0	0	0	0	0	0	0	0	52
TX	0	3	0	5	9	1	2	0	0	4	6	30
T-	0	0	0	0	0	0	0	0	0	0	34	34
Total	677	298	29	100	629	303	57	0	0	8	42	2143

M1: 62cases. Number in parenthesis indicates number of M1 cases

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

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

Treatment Method for the Primary Lesion by Subsite

Treatment Method	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
without	64	731	71	287	40	1193
with	113	462	87	169	18	849
unknown	4	48	7	22	4	85
Radiotherapy						
without	110	337	84	155	21	707
with	67	856	74	301	37	1335
unknown	4	48	7	22	4	85
Chemotherapy						
without	125	448	93	179	27	872
with	52	745	65	277	31	1170
unknown	4	48	7	22	4	85
Total	181	1241	165	478	62	2127

Treatment Method for the Primary Lesion by Subsite was not reported in 16 patients

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
without	143	820	138	324	45	1470
with	35	368	19	132	16	570
unknown	4	52	7	25	4	92
Radiotherapy						
without	128	402	96	191	24	841
with	50	786	61	265	37	1199
unknown	4	52	7	25	4	92
Chemotherapy						
without	133	492	102	207	30	964
with	45	696	55	249	31	1076
unknown	4	52	7	25	4	92
Total	481	1240	164	182	65	2132

Treatment Method for the Cervical Lymph Nodes by Subsite was not reported in 11 patients

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
No treatment	3	21	2	11	6	43
F)(Rad.+Chem.)	31	452	34	142	19	678
A) Surg. alone	100	252	71	99	11	533
B) Rad. alone	18	118	17	46	8	207
C)F) Chem. -> (Rad.+Chem.)	3	80	9	47	2	141
A)F) Surg.->(Rad.+Chem.)	3	61	3	11	1	79
A)B) Surg.->Rad.	3	54	1	18	1	77
C) Chem. alone	4	21	3	25	2	55
C)A) Chem.->Surg.	3	29	5	7	1	45
C)B) Chem.->Rad.	0	18	2	4	1	25
F)C)(Rad.+Chem.)->Chem.	4	10	2	6	0	22
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	9	2	4	1	16
F)A)(Rad.+Chem.)->Surg.	0	10	1	3	1	15
C)A)B) Chem.->Surg.->Rad.	0	7	1	3	0	11
A)C) Surg. -> Chem	0	6	0	4	0	10
A)A) Surg.->Surg.	1	4	1	3	0	9
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	4	1	1	0	6
A)C)F) Surg. -> Chem -> (Rad.+Chem.)	1	3	0	1	0	5
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	0	5	0	0	0	5
Other	3	29	3	21	4	60
Unknown	4	48	7	22	4	85
Total	181	1241	165	478	62	2127

Sequence of Treatment method for the Primary Lesion by Subsite was not reported in 16 patients

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Oropharynx ----- 2143 Cases

Surgical Methods for the Primary Lesion by Subsite

Surgical method	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
X0 No surgery	66	728	71	289	39	1193
E3 Unilateral resection of the lateral wall of the oropharynx	1	329	1	1	2	334
E9 Resection of the oropharynx, other type	9	40	10	31	10	100
E8 Resection of the soft palate	64	9	0	0	1	74
E1 Resection of the root of tongue 0	0	0	0	73	0	73
E6 Resection of the posterior wall	2	3	61	0	0	66
E4 Unilateral resection of the lateral wall of the oropharynx and soft	7	34	0	0	0	41
E7 Resection of the uvula	19	0	0	0	2	21
E2 Resection of the base of tongue and epiglottis	0	2	0	17	0	19
F2 Transoral resection	2	8	4	3	0	17
E5 Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	1	11	0	2	1	15
A6 Total glossectomy	0	0	0	12	0	12
F1 Endoscopic resection	1	2	5	2	1	11
G5 Total laryngectomy	0	3	0	7	0	10
A5 Subtotal glossectomy	0	2	0	3	0	5
F6 Total pharyngolaryngo-esophagectomy	0	1	2	1	1	5
G1 Endoscopic resection	1	1	3	0	0	5
A1 Partial glossectomy	0	1	0	3	0	4
+Others	6	6	1	11	1	25
V9 Unknown	4	67	7	28	7	113
Total	183	1247	165	483	65	2143

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstructive surgery	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No reconstruction	159	1061	143	393	53	1809
E) Free ALT flap	10	61	3	17	3	94
D) Free RA MC flap	1	15	0	25	0	41
C) Free FA flap	1	18	3	1	1	24
5) PM MC flap	0	9	0	7	0	16
B) Free jejunal flap	0	4	5	5	1	15
2) Local skin flap	4	0	0	2	0	6
3) Mucosal flap	2	0	0	1	0	3
4) DP flap	0	0	2	1	0	3
1) Skin graft	0	1	0	1	0	2
I) Free nerve graft	0	1	0	0	0	1
7) Gastric pull-up	0	0	0	0	0	0
F) Free scapular OC flap	0	0	0	0	0	0
G) Free fibular OC flap	0	0	0	0	0	0
+ Others	1	3	1	1	0	6
9) Unknown	5	74	8	29	7	123
Total	183	1247	165	483	65	2143

NOS: not otherwise specified.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	143	819	139	326	43	1470
1) Total N.D.	10	127	7	41	9	194
2) Selective N.D.	23	212	11	85	4	335
3) Lymph node excision	0	6	0	1	1	8
8) Others	2	10	1	1	2	16
9) Unknown	5	73	7	29	6	120
Total	183	1247	165	483	65	2143

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	168	1118	148	388	53	1875
1) Total N.D.	2	11	3	13	1	30
2) Selective N.D.	6	33	6	50	3	98
3) Lymph node excision	0	1	0	1	0	2
8) Others	2	12	1	2	2	19
9) Unknown	5	72	7	29	6	119
Total	183	1247	165	483	65	2143

NOS: not otherwise specified.

N.D.: neck dissection.

Radiotherapy by Subsite

Type of radiotherapy	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No radiotherapy	110	317	82	150	19	678
1) X-ray (and/or electron beam)	67	865	75	306	40	1353
2) Particle beam	1	0	0	0	0	1
3) B.T.	0	0	0	0	0	0
4) X-ray + Particle beam	0	0	0	0	0	0
5) X-ray + B.T.	0	0	0	0	0	0
6) Particl beam + B.T.	0	0	0	0	0	0
7) X-ray + Particl beam + B.T.	0	0	0	0	0	0
8) Others	0	0	0	2	0	2
9) Unknown	5	65	8	25	6	109
Total	183	1247	165	483	65	2143

NOS: not otherwise specified.

B.T.: brachytherapy.

Chemotherapy by Subsite

Route of administration	Superior wall	Later wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No chemotherapy	128	434	92	178	26	858
1) I.V.	47	716	62	248	33	1106
2) I.A.	0	11	0	15	2	28
3) Oral	1	19	2	12	0	34
4) I.V.+I.A.	0	1	0	2	0	3
5) I.V.+Oral	2	7	1	5	0	15
6) I.A.+Oral	1	0	0	0	0	1
7) I.V.+I.A.+Oral	0	0	0	0	0	0
8) Others	0	0	0	0	0	0
9) Unknown	4	59	8	23	4	98
Total	183	1247	165	483	65	2143

I.V.: intravenous.

I.A.: intraarterial.

NOS: not otherwise specified.

Nasopharynx (2017)

370 Cases

Primary Site

Site	Number of patients	(%)
Posteriosuperiorwall	158	(42.7)
Lateralwall	161	(43.5)
Inferiorwall	4	(1.1)
NasopharynxNOS	47	(12.7)
Total	370	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	3	4
20 - 29	5	5	10
30 - 39	18	6	24
40 - 49	43	17	60
50 - 59	62	14	76
60 - 69	74	20	94
70 - 79	51	28	79
80 - 89	12	10	22
90 - 99	0	0	0
100 - 109	0	0	0
110 - 119	0	1	1
Total	266	104	370

Carcinoma of the Nasopharynx ----- 370 Cases
Histological Distribution by Subsite

Histologic type	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Adenoca., NOS	1	1	0	0	2
Adenoid cystic ca.	1	0	0	1	2
Ca., NOS	16	9	0	3	28
Ca., undifferentiated, NOS	5	6	0	4	15
Clear cell ca., NOS	1	0	0	0	1
Lymphoepithelial ca.	12	21	0	4	37
Malig lymphoma, NOS	0	1	0	0	1
Malig melanoma, NOS	0	1	0	0	1
Mucoepidermoid ca.	0	3	0	0	3
Myoepithelial ca.	0	1	0	0	1
Neoplasm, malig	0	0	1	0	1
Papillary S.C.C.	1	0	1	0	2
Plasmacytoma, NOS	0	0	0	1	1
Polymorphous low grade adenoca.	0	1	0	0	1
Small cell ca., NOS	0	1	0	0	1
Spindle cell ca., NOS	0	2	0	0	2
S.C.C. in situ, NOS	2	0	0	0	2
S.C.C., kerat. NOS	4	2	0	1	7
S.C.C., large cell, nonkerat. ,NOS	15	16	0	3	34
S.C.C., NOS	92	88	2	29	211
S.C.C., small cell, nonkerat.	5	8	0	1	14
Transitional cell ca., NOS	1	0	0	0	1
Malig lymphoma, large B-cell, diffuse, NOS	1	0	0	0	1
Malig teratoma, undifferentiated	1	0	0	0	1
Total	158	161	4	47	370

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

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

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

T and N Status

	N0	N1	N2	N3	N3a	N3b	NX	N-	Total
T0	0	0	1	1	0	0	0	0	2
T1	31(1)	35(1)	30(3)	5	2	6	0	0(1)	109
T2	11	30(2)	37(2)	4	1	6(1)	0	0(1)	89
T3	15	27	29(5)	3	1	0	0	0	75
T4	20	20(1)	36(4)	4(1)	2	6(1)	0	1	89
TX	0	2	0	0	0	0	1	1	4
T-	0	0	0	0	0	0	0	2	2
Total	77	114	133	17	6	18	1	4	370

M1: 24cases. Number in parenthesis indicates number of M1 cases

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

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

Treatment Method for the Primary Lesion by Subsite

Treatment Method	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
without	147	150	1	44	342
with	8	6	3	0	17
unknown	2	5	0	3	10
Radiotherapy					
without	11	9	2	5	27
with	144	147	2	39	332
unknown	2	5	0	3	10
Chemotherapy					
without	24	22	3	11	60
with	131	134	1	33	299
unknown	2	5	0	3	10
Total	157	161	4	47	369

NOS: not otherwise specified.

Treatment Method for the Primary Lesion by Subsite was not reported in one patient

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
without	150	153	1	43	347
with	6	3	1	1	11
unknown	2	5	0	3	10
Radiotherapy					
without	26	27	2	10	65
with	130	129	0	34	293
unknown	2	5	0	3	10
Chemotherapy					
without	34	34	2	14	84
with	122	122	0	30	274
unknown	2	5	0	3	10
Total	158	161	2	47	368

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite was not reported in 2 patients

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
F)(Rad.+Chem.)	75	92	0	21	188
F)C)(Rad.+Chem.)->Chem.	25	14	0	5	44
B) Rad. alone	18	19	0	6	43
C)F) Chem. -> (Rad.+Chem.)	18	10	0	7	35
C) Chem. alone	4	5	0	0	9
No treatment	3	1	0	4	8
A) Surg. alone	2	2	2	0	6
Other	10	13	2	1	26
Unknown	2	5	0	3	10
Total	157	161	4	47	369

NOS: not otherwise specified.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Sequence of Treatment Methods for the Primary Lesion by Subsite was not reported in one patient

Surgical Methods for the Primary Lesion by Subsite

Surgical method	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
X0 No surgery	147	150	1	43	341
+Others	5	6	3	0	14
V9 Unknown	6	5	0	4	15
Total	158	161	4	47	370

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstuctive surgery	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No reconstruction	152	153	3	43	351
E) Free ALT flap	0	1	1	0	2
2) Local skin flap	0	1	0	0	1
B) Free jejunal flap	0	1	0	0	1
9) Unknown	6	5	0	4	15
Total	158	161	4	47	370

NOS: not otherwise specified.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	149	153	2	42	346
1) Total N.D.	1	1	0	0	2
2) Selective N.D.	0	2	2	1	5
3) Lymph node excision	1	0	0	0	1
9) Unknown	7	5	0	4	16
Total	158	161	4	47	370

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	151	155	4	43	353
1) Total N.D.	0	0	0	0	0
2) Selective N.D.	0	1	0	0	1
9) Unknown	7	5	0	4	16
Total	158	161	4	47	370

NOS: not otherwise specified.

N.D.: neck dissection.

Radiotherapy by Subsite

Type of radiotherapy	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No radiotherapy	11	9	2	5	27
1) X-ray (and/or electron beam)	143	142	2	38	325
2) Particle beam	1	2	0	1	4
4) X-ray + Particle beam	0	1	0	0	1
9) Unknown	3	7	0	3	13
Total	158	161	4	47	370

NOS: not otherwise specified.

Chemotherapy by Subsite

Route of administration	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No chemotherapy	23	21	3	11	58
1) I.V.	130	131	1	30	292
2) I.A.	0	1	0	0	1
3) Oral	1	1	0	2	4
4) I.V.+I.A.	1	0	0	0	1
5) I.V.+Oral	1	2	0	1	4
9) Unknown	2	5	0	3	10
Total	158	161	4	47	370

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Nasal Cavity and Paranasal Sinuses
(Excluding the Maxillary Sinus)
(2017)

427 Cases

Primary Site

Site	Number of patients	(%)
Nasalcavity	252	(59.0)
Ethmoidsinus	79	(18.5)
Frontalsinus	20	(4.7)
Sphenoidsinus	17	(4.0)
ParanasalsinusNOS	59	(13.8)
Total	427	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	3	3	6
30 - 39	12	8	20
40 - 49	35	19	54
50 - 59	45	23	68
60 - 69	81	29	110
70 - 79	74	41	115
80 - 89	25	22	47
90 - 99	2	4	6
100 - 109	0	0	0
110 - 119	1	0	1
Total	278	149	427

NOS: not otherwise specified.

Carcinoma of the Nasal Cavity and Paranasal Sinuses -----427Cases

Histological Distribution by Subsite

Histologic type	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
Acinar cell ca	3	0	0	0	0	3
Adenoca, NOS	14	1	0	3	3	21
Adenoid cystic ca	16	3	0	0	5	24
Adenosquamous ca	1	0	0	0	0	1
Basal cell ca, NOS	2	0	0	0	0	2
Basaloid S.C.C.	3	1	0	0	0	4
Carcinoid tumor, NOS	0	0	0	1	0	1
Ca ex pleomorphic adenoma	2	0	0	0	1	3
Ca, NOS	4	2	0	0	2	8
Ca, undifferentiated, NOS	5	1	0	1	1	8
Carcinosarcoma, NOS	0	0	1	0	0	1
Chondrosarcoma, NOS	1	0	0	0	0	1
Clear cell ca, NOS	1	0	0	0	0	1
Ewing sarcoma	3	0	0	0	0	3
Leiomyosarcoma, NOS	1	0	0	0	0	1
Malig. lymphoma, NOS	1	1	0	0	0	2
Malig. melanoma, NOS	45	5	0	0	6	56
Mucoepidermoid ca	2	0	0	0	0	2
Myoepithelial ca	1	0	0	0	0	1
Neoplasm, malig.	2	3	0	0	0	5
Olfactory neuroblastoma	41	5	0	1	11	58
Osteosarcoma, NOS	0	0	0	0	1	1
Papillary S.C.C.	0	1	0	0	0	1
Plasmacytoma, NOS	1	0	0	0	0	1
Rhabdomyosarcoma, NOS	1	1	0	0	1	3
Small cell ca, NOS	6	3	0	0	1	10
Spindle cell ca, NOS	1	0	0	0	0	1
S.C.C. in situ, NOS	1	1	1	0	0	3
S.C.C., keratinizing, NOS	3	0	0	1	0	4
S.C.C., large cell, nonkerat., NOS	2	2	0	0	0	4
S.C.C., microinvasive	0	0	0	0	1	1
S.C.C., NOS	80	44	17	10	25	176
S.C.C., spindle cell	0	1	0	0	0	1
Transitional cell ca, NOS	1	0	0	0	0	1
Malig. lymphoma, large B-cell, diffuse, NOS	5	0	0	0	0	5
Malig. teratoma, undifferentiated	0	0	0	0	1	1
NK/T-cell lymphoma, nasal and nasaltpe	0	1	0	0	0	1
Neuroendocrine ca, NOS	1	0	0	0	0	1
Hemangiopericytoma, malig.	0	0	1	0	0	1
Anaplastic large cell lymphoma, ALK negative	1	0	0	0	0	1
Spindle cell sarcoma	0	1	0	0	0	1
Alveolar rhabdomyosarcoma	1	1	0	0	0	2
SMACRB1	0	1	0	0	0	1
Total	252	79	20	17	59	427

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

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

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

T and N Status

	N0	N1	N2	N2b	N2c	N3	NX	N-	Total
T0	2	0	0	0	0	0	0	0	2
T1	52	1	0	0	1	0	1	0	55
T2	58	0	1	2	1	0	0	0	62
T3	50(2)	2	0	3	0	0	2(1)	1	58
T4	9	1	0	0	0	0	1	0	11
T4a	63(3)	3	0	4	4(1)	0	1	0	75
T4b	72(4)	6(1)	0	4(1)	3	2	2	0	89
Tis	3	0	0	0	0	0	0	0	3
TX	4(1)	1	0	0	2	0	10(1)	1	18
T-	11	1	0	0	0	0	0	42(1)	54
Total	324	15	1	13	11	2	17	44	427

M1: 16 cases. Number in parenthesis indicates number of M1 cases

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

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

Treatment Method for the Primary Lesion by Subsite

Treatment Method	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
Surgery						
without	83	40	5	12	21	161
with	155	37	15	5	32	244
unknown	14	2	0	0	6	22
Radiotherapy						
without	103	11	11	4	24	153
with	135	66	9	13	29	252
unknown	14	2	0	0	6	22
Chemotherapy						
without	168	27	11	7	35	248
with	70	50	9	10	18	157
unknown	14	2	0	0	6	22
Total	252	79	20	17	59	427

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
Surgery						
without	217	68	19	16	48	368
with	17	9	0	0	5	31
unknown	15	2	0	1	6	24
Radiotherapy						
without	205	53	17	11	43	329
with	29	24	2	5	10	70
unknown	15	2	0	1	6	24
Chemotherapy						
without	212	51	17	11	43	334
with	22	26	2	5	10	65
unknown	15	2	0	1	6	24
Total	17	79	19	249	59	423

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Primary Site was not reported in 4patients

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
No treatment	11	0	0	4	5	20
A) Surg. alone	79	5	9	0	16	109
A)B) Surg.->Rad.	47	12	2	2	10	73
F)(Rad.+Chem.)	21	20	3	7	6	57
B) Rad. alone	24	9	0	1	3	37
A)F) Surg.->(Rad.+Chem.)	8	6	3	0	4	21
C) Chem. alone	10	4	2	1	2	19
C)F) Chem. -> (Rad.+Chem.)	7	3	0	0	1	11
F)A)(Rad.+Chem.)->Surg.	5	3	1	0	0	9
C)B) Chem.->Rad.	5	2	0	0	1	8
C)A)F) Chem.->Surg.->(Rad.+Chem.)	2	3	0	0	0	5
Other	19	10	0	2	5	36
Unknown	14	2	0	0	6	22
Total	252	79	20	17	59	427

NOS: not otherwise specified.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parenthesis were given concurrently.

Surgical Methods for the Primary Lesion by Subsite

Surgical method	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
X0 No surgery	83	41	5	12	21	162
D9 Maxillectomy, other type	59	11	4	1	11	86
D5 Endoscopic skull base surgery	21	10	0	0	10	41
D4 Skull base surgery	15	6	9	0	1	31
D1 Partial maxillectomy	21	2	0	0	2	25
D2 Total maxillectomy	1	2	0	0	1	4
D3 Extended maxillectomy	1	0	0	0	1	2
F1 Endoscopic resection	2	0	0	0	0	2
+Others	33	4	2	3	5	47
V9 Unknown	16	3	0	1	7	27
Total	252	79	20	17	59	427

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstuctive surgery	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
No reconstruction	205	60	10	15	43	333
Mucosal flap	9	2	0	0	2	13
Free RA MC flap	0	3	5	0	1	9
Local skin flap	5	0	0	0	2	7
Free ALT flap	2	1	2	0	1	6
Free FA flap	1	0	0	0	0	1
Free scapular OC flap	0	0	1	0	0	1
Free fibular OC flap	1	0	0	0	0	1
Others	13	8	2	0	4	27
Unknown	16	5	0	2	6	29
Total	252	79	20	17	59	427

NOS: not otherwise specified.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
0) No N.D.	220	69	19	16	48	372
1) Total N.D.	5	1	1	0	1	8
2) Selective N.D.	9	5	0	0	2	16
3) Lymph node excisio	1	0	0	0	0	1
8) Others	0	0	0	0	2	2
9) Unknown	17	4	0	1	6	28
Total	252	79	20	17	59	427

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
0) No N.D.	234	74	20	16	51	395
2) Selective N.D.	1	1	0	0	0	2
8) Others	0	0	0	0	2	2
9) Unknown	17	4	0	1	6	28
Total	252	79	20	17	59	427

NOS: not otherwise specified.

N.D.: neck dissection.

Radiotherapy by Subsite

Type of radiotherapy	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
0) No radiotherapy	98	10	10	2	23	143
1) X-ray (and/or electron beam)	117	57	10	13	29	226
2) Particle beam	21	9	0	0	1	31
3) B.T.	1	0	0	0	0	1
9) Unknown	15	3	0	2	6	26
Total	252	79	20	17	59	427

NOS: not otherwise specified.

B.T.: brachytherapy.

Chemotherapy by Subsite

Route of administration	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
0) No chemotherapy	166	28	11	7	33	245
1) I.V.	56	44	7	9	17	133
2) I.A.	12	5	0	0	2	19
3) Oral	1	0	1	0	0	2
5) I.V.+Oral	1	0	1	1	0	3
6) I.A.+Oral	0	0	0	0	1	1
8) Others	1	0	0	0	0	1
9) Unknown	15	2	0	0	6	23
Total	252	79	20	17	59	427

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Maxillary Sinus (2017)

400 Cases

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	2	1	3
30 - 39	1	5	6
40 - 49	28	5	33
50 - 59	46	9	55
60 - 69	123	29	152
70 - 79	85	20	105
80 - 89	27	15	42
90 - 99	1	2	3
100 - 109	0	0	0
Total	313	87	400

Histological Distribution by Subsite

Histologic type	Number of patients (%)
Adenoca., NOS	9 (2.2)
Adenoid cystic ca.	17 (4.2)
Ca., NOS	12 (3)
Ca., undifferentiated, NOS	8 (2)
Carcinosarcoma, NOS	3 (0.8)
Giant cell sarcoma	2 (0.5)
Hemangiosarcoma	2 (0.5)
Large cell ca., NOS	1 (0.2)
Leiomyosarcoma, NOS	2 (0.5)
Malig. lymphoma, NOS	2 (0.5)
Malig. melanoma, NOS	5 (1.2)
Mucoepidermoid ca.	5 (1.2)
Neoplasm, malig.	2 (0.5)
Olfactory neuroblastoma	1 (0.2)
Papillary S.C.C.	1 (0.2)
Polymorphous low grade adenoca.	1 (0.2)
Rhabdomyosarcoma, NOS	1 (0.2)
Small cell ca., NOS	4 (1.0)
Spindle cell ca., NOS	4 (1.0)
S.C.C. in situ, NOS	2 (0.5)
S.C.C., kerat., NOS	14 (3.5)
S.C.C., large cell, nonkerat., NOS	6 (1.5)
S.C.C., NOS	282 (71)
S.C.C., spindle cell	1 (0.2)
Transitional cell ca., NOS	1 (0.2)
Undifferentiated pleomorphic sarcoma	3 (0.8)
Verrucous ca., NOS	1 (0.2)
Malig. lymphoma, large B-cell, diffuse, NOS	2 (0.5)
Malig. teratoma, undifferentiated	1 (0.2)
Neuroendocrine ca., NOS	2 (0.5)
Malig. tumor, spindle cell type	1 (0.2)
Extraskletal Ewing's sarcoma	1 (0.2)
Primitive neuroectodermal tumor, NOS	1 (0.2)
Total	400 (100)

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

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

malig., Malig.: malignant.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T1	4	0	0	0	0	0	0	0	0	0	0	4
T2	17	0	0	0	0	0	1	0	0	0	0	18
T3	66	7	0	0	7(1)	2	0	0	0	0	0	82
T4	3	0	1	0	1(1)	0	0	0	0	0	0	5
T4a	145(6)	15	0	0	35	5(1)	0	0	0	1	0	201
T4b	53(2)	3	0	0	13(1)	0	0	0	0	0	0	69
TX	0	0	0	0	0	0	0	0	0	3(1)	0	3
T-	0	0	0	0	0	0	0	0	0	0	18	18
Total	288	25	1	0	56	7	1	0	0	4	18	400

M1: 13 cases. Number in parenthesis indicates number of M1 cases

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

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

Treatment Method for the Primary Lesion by Subsite

Treatment Method	Number of patients (%)	
Surgery		
without	218	(54.5)
with	160	(40.0)
unknown	22	(5.5)
Radiotherapy		
without	47	(11.8)
with	331	(82.8)
unknown	22	(5.5)
Chemotherapy		
without	114	(28.5)
with	264	(66.0)
unknown	22	(5.5)
Total	400	(100.0)

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Numner of patients (%)	
Surgery		
without	291	(73.9)
with	76	(19.3)
unknown	27	(6.9)
Radiotherapy		
without	235	(59.6)
with	132	(33.5)
unknown	27	(6.9)
Chemotherapy		
without	241	(61.2)
with	126	(32.0)
unknown	27	(6.9)
Total	394	(100.0)

6 patients were no reported Treatment Method for the Cervical Lymph Nodes by Subsite.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Numner of patients (%)
No treatment	7 (1.8)
F)(Rad.+Chem.)	140 (35.0)
A)B) Surg.->Rad.	36 (9.0)
B) Rad. alone	36 (9.0)
A) Surg. alone	31 (7.8)
A)F) Surg.->(Rad.+Chem.)	31 (7.8)
F)A)(Rad.+Chem.)->Surg.	25 (6.2)
C)F) Chem. -> (Rad.+Chem.)	14 (3.5)
F)C)(Rad.+Chem.)->Chem.	7 (1.8)
C) Chem. alone	6 (1.5)
C)A)F) Chem.->Surg.->(Rad.+Chem.)	6 (1.5)
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	5 (1.2)
B)C) Rad.->Chem.	4 (1.0)
C)A)B) Chem.->Surg.->Rad.	4 (1.0)
Other	26 (6.5)
Unknown	22 (5.5)
Total	400 (100.0)

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Surgical Methods for the Primary Lesion by Subsite

Surgical method	Numner of patients (%)
X0 No surgery	217 (54.2)
D2 Total maxillectomy	69 (17.2)
D1 Partial maxillectomy	36 (9)
D3 Extended maxillectomy	22 (5.5)
D9 Maxillectomy, other type	19 (4.8)
D4 Skull base surgery	3 (0.8)
+ Others	5 (1.2)
V9 Unknown	29 (7.2)
Total	400 (100.0)

Reconstructive Surgery by Subsite

Recontstructive surgery	Numner of patients (%)
0) No reconstruction	281 (70.2)
D) Free RA MC flap	56 (14.0)
E) Free ALT flap	11 (2.8)
C) Free FA flap	4 (1.0)
1) Skin graft	2 (0.5)
G) Free fibular OC flap	2 (0.5)
2) Local skin flap	1 (0.2)
8) Others	9 (2.2)
9) Unknown	34 (8.5)
Total	400 (100.0)

RA: rectus abdominis.

MC: musculocutaneous.

ALT: anterolateral thigh.

FA: forearm.

PM: pectoralis major.

OC: osteocutaneous.

DP: deltopectoral

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Numner of patients (%)
0) No N.D.	296 (74.0)
1) Total N.D.	25 (6.2)
2) Selective N.D.	44 (11.0)
3) Lymph node excision	1 (0.2)
8) Others	2 (0.5)
9) Unknown	32 (8.0)
Total	400 (100.0)

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Numner of patients (%)
0) No N.D.	359 (89.8)
2) Selective N.D.	5 (1.2)
8) Others	3 (0.8)
9) Unknown	33 (8.2)
Total	400 100.0

N.D.: neck dissection.

Radiotherapy by Subsite

Type of radiotherapy	Numner of patients (%)
0) No radiotherapy	44 (11.0)
1) X-ray (and/or electron beam)	317 (79.2)
2) Particle beam	10 (2.5)
9) Unknown	29 (7.2)
Total	400 (100.0)

B.T.: brachytherapy.

Chemotherapy by Subsite

Route of administration	Numner of patients (%)
0) No chemotherapy	109 (27.3)
1) I.V.	122 (30.5)
2) I.A.	127 (31.8)
3) Oral	8 (2.0)
4) I.V.+I.A.	7 (1.8)
5) I.V.+Oral	0 (0.0)
6) I.A.+Oral	2 (0.5)
7) I.V.+I.A.+Oral	0 (0.0)
8) Others	0 (0.0)
9) Unknown	25 (6.2)
Total	400 (100.0)

I.V.: intravenous.

I.A.: intraarterial.

Major Salivary Glands (2017)

768 Cases

Primary Site

Site	Number of patients	(%)
Parotid gland	541	(70.4)
Submandibular gland	192	(25.0)
Sublingual gland	23	(3.0)
Majorsalivary gland,NOS	12	(1.6)
Total	768	(100.0)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	2	1	3
10 - 19	4	5	9
20 - 29	12	12	24
30 - 39	15	13	28
40 - 49	54	23	77
50 - 59	59	39	98
60 - 69	140	71	211
70 - 79	127	68	195
80 - 89	71	42	113
90 - 99	9	1	10
100 - 109	0	0	0
Total	493	275	768

NOS: not otherwise specified.

Parotid gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	2	1	3
10 - 19	4	4	8
20 - 29	11	10	21
30 - 39	13	8	21
40 - 49	39	16	55
50 - 59	43	25	68
60 - 69	111	48	159
70 - 79	87	38	125
80 - 89	49	22	71
90 - 99	9	1	10
100 - 109	0	0	0
Total	368	173	541

Submandibular gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	1	2	3
30 - 39	1	4	5
40 - 49	13	5	18
50 - 59	14	12	26
60 - 69	26	21	47
70 - 79	34	24	58
80 - 89	17	17	34
90 - 99	0	0	0
100 - 109	0	0	0
Total	106	86	192

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	1	1
40 - 49	0	2	2
50 - 59	0	1	1
60 - 69	3	2	5
70 - 79	4	5	9
80 - 89	4	1	5
90 - 99	0	0	0
100 - 109	0	0	0
Total	11	12	23

Major salivary gland, NOS

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	2	0	2
50 - 59	2	1	3
60 - 69	0	0	0
70 - 79	2	1	3
80 - 89	1	2	3
90 - 99	0	0	0
100 - 109	0	0	0
Total	8	4	12

Carcinoma of the Major Salivary Glands -----768 Cases

Histological Distribution by Primary Site

Histologic type	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Acinar cell ca.	36	1	0	0	37
Adenoca., NOS	37	10	1	0	48
Adenoid cystic ca.	48	53	12	2	115
Adenosquamous ca.	1	0	0	0	1
Basal cell adenoca.	13	1	0	0	14
Basal cell ca., NOS	4	0	0	0	4
Ca. ex pleomorphic adenoma	37	19	0	3	59
Ca., NOS	13	5	0	1	19
Ca., undifferentiated, NOS	1	1	0	0	2
Carcinosarcoma, NOS	0	1	0	0	1
Clear cell ca., NOS	0	0	1	0	1
Cystadenoca.	4	0	0	0	4
Epithelial-myoepithelial ca.	23	2	0	1	26
Large cell ca., NOS	2	0	0	0	2
Liposarcoma, NOS	1	0	0	0	1
Lymphoepithelial ca.	3	1	0	0	4
Malig. lymphoma, NOS	7	6	1	0	14
Mixed tumor, malig., NOS	1	0	0	1	2
Mucinous adenoca.	3	2	0	0	5
Mucoepidermoid ca.	92	20	3	2	117
Myoepithelial ca.	10	1	1	0	12
Neoplasm, malig.	6	1	0	0	7
Oncocytic ca.	2	0	0	0	2
Polymorphous low grade adenoca.	0	1	0	0	1
Salivary duct ca.	127	46	3	2	178
Small cell ca., NOS	3	1	0	0	4
S.C.C., kerat., NOS	0	1	0	0	1
S.C.C., NOS	59	16	1	0	76
S.C.C., small cell, nonkerat.	0	1	0	0	1
Secretory ca. of breast	5	1	0	0	6
Malig. lymphoma, large B-cell, diffuse, NOS	2	0	0	0	2
Pleomorphic rhabdomyosarcoma	1	0	0	0	1
Fibromyxosarcoma	0	1	0	0	1
Total	541	192	23	12	768

NOS: not otherwise specified.

ca., Ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

malig., Malig.: malignant.

kerat.: keratinizing.

nonkerat.: nonkeratinizing.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	4	0	0	0	0	0	0	0	0	0	0	4
T1	86	5(1)	0	1	7(3)	0	0	0	0	0	0	99
T2	175(7)	12(1)	1	1	39(10)	4(3)	1	0	0	1	1	235
T3	109(5)	19(5)	0	0	42(9)	3(2)	1	0	0	1	1	176
T4	3	2	0	1	3(1)	0	0	0	0	0	0	9
T4a	81(5)	22(2)	0	1	51(12)	7(5)	1	0(1)	0	1(1)	0	164
T4b	12(2)	1	0	0	8(4)	1	0	0	0	0	0	22
TX	4	0	0	1	1	0	1	0(1)	0	27(1)	0	34
T-	0	0	0	0	0	0	0	0	0	0	25	25
Total	474	61	1	5	151	15	4	0	0	30	27	768

M1: 81 cases. Number in parenthesis indicates numbers of M1 cases

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

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

Parotid gland

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	2	0	0	0	0	0	0	0	0	0	0	2
T1	62	2	0	1	3(1)	0	0	0	0	0	0	68
T2	124(2)	6	1	1	19(2)	1	1	0	0	1	1	155
T3	77(2)	9(1)	0	0	21(2)	1(1)	0	0	0	1	1	110
T4	3	1	0	1	3(1)	0	0	0	0	0	0	8
T4a	73(4)	21(2)	0	1	45(8)	4(3)	1(1)	0	0	1(1)	0	146
T4b	10(2)	1	0	0	6(3)	1	0	0	0	0	0	18
TX	1	0	0	0	0	0	0	0	0	19	0	20
T-	0	0	0	0	0	0	0	0	0	0	14	14
Total	352	40	1	4	97	7	2	0	0	22	16	541

M1:36 cases. Number in parenthesis indicates number of M1 cases

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

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

Submandibular gland

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	2	0	0	0	0	0	0	0	0	0	0	2
T1	21	2(1)	0	0	4(2)	0	0	0	0	0	0	27
T2	43(4)	5(1)	0	0	18(7)	2(2)	0	0	0	0	0	68
T3	29(3)	8(4)	0	0	21(7)	2(1)	1	0	0	0	0	61
T4	0	1	0	0	0	0	0	0	0	0	0	1
T4a	3	1	0	0	5(3)	3(2)	0	0	0	0	0	12
T4b	1	0	0	0	2(1)	0	0	0	0	0	0	3
TX	1	0	0	1	1	0	0	0	0	7(1)	0	10
T-	0	0	0	0	0	0	0	0	0	0	8	8
Total	100	17	0	1	51	7	1	0	0	7	8	192

M1:39 cases. Number in parenthesis indicates numbers of M1 cases

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

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

Sublingual gland

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0	0	0	0	0	0
T2	6(1)	1	0	0	2(1)	1(1)	0	0	0	0	0	10
T3	2	2	0	0	0	0	0	0	0	0	0	4
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	4(1)	0	0	0	0	0	0	0	0	0	0	4
T4b	1	0	0	0	0	0	0	0	0	0	0	1
TX	1	0	0	0	0	0	0	0	0	1	0	2
T-	0	0	0	0	0	0	0	0	0	0	2	2
Total	14	3	0	0	2	1	0	0	0	1	2	23

M1:4 cases. Number in parenthesis indicates number of M1 cases

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

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

Major salivary gland, NOS

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	3	1	0	0	0	0	0	0	0	0	0	4
T2	2	0	0	0	0	0	0	0	0	0	0	2
T3	1	0	0	0	0	0	0	0	0	0	0	1
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	1	0	0	0	1(1)	0	0	0	0	0	0	2
T4b	0	0	0	0	0	0	0	0	0	0	0	0
TX	1	0	0	0	0	0	1(1)	0	0	0	0	2
T-	0	0	0	0	0	0	0	0	0	0	1	1
Total	8	1	0	0	1	0	1	0	0	0	1	12

M1:2 cases. Number in parenthesis indicates number of M1 cases

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

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

Treatment Method for the Primary Lesion by Subsite

Treatment Method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Surgery					
without	50	22	2	1	75
with	465	158	20	10	653
unknown	26	12	1	1	40
Radiotherapy					
without	275	101	15	7	398
with	240	79	7	4	330
unknown	26	12	1	1	40
Chemotherapy					
without	423	138	15	8	584
with	92	42	7	3	144
unknown	26	12	1	1	40
Total	541	192	23	12	768

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Surgery					
without	216	44	8	5	273
with	289	128	13	6	436
unknown	33	16	2	1	52
Radiotherapy					
without	338	106	17	8	469
with	167	66	4	3	240
unknown	33	16	2	1	52
Chemotherapy					
without	435	142	15	9	601
with	70	30	6	2	108
unknown	33	16	2	1	52
Total	538	188	23	12	761

Treatment Method for the Cervical Lymph Node by Subsite was not reported in 7 patients

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
A) Surg. alone	250	76	12	6	344
A)B) Surg.->Rad.	146	54	4	2	206
A)F) Surg.->(Rad.+Chem.)	36	12	1	1	50
Unknown	26	12	1	1	40
B) Rad. alone	16	4	0	0	20
C) Chem. alone	11	8	1	0	20
Other	15	4	1	0	20
No treatment	7	6	1	1	15
A)C) Surg. -> Chem	5	8	1	1	15
A)B)C) Surg.->Rad.->Chem.	9	2	0	0	11
F)(Rad.+Chem.)	8	1	0	0	9
D)(Surg.+Rad.)	4	1	0	0	5
A)F)C) Surg.->(Rad.+Chem.)->Chem.	3	1	0	0	4
A)A) Surg.->Surg.	3	0	0	0	3
C)C)C) Chem.->Chem.->Chem.	0	2	1	0	3
G)Surg.+Rad.+Chem.	2	1	0	0	3
Total	541	192	23	12	768

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

NOS: not otherwise specified.

Surgical Methods for the Primary Lesion by Subsite

Surgical method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
H4 Total parotidectomy	175	0	0	1	176
H6 Submandibulectomy	2	146	2	1	151
H2 Superficial parotidectomy	146	0	0	2	148
X0 No surgery	50	22	3	1	76
H5 Extended total parotidectomy	69	0	0	0	69
H1 Partial parotidectomy	42	1	0	0	43
V9 Unknown	26	12	1	1	40
H3 Deep lobe resection of the parotid gland	22	0	0	1	23
H7 Resection of the sublingual gland	0	2	12	0	14
Others	3	5	5	1	14
H9 Paroticectomy,NOS	5	4	0	4	13
Total	540	192	23	12	767

Treatment Method for the Cervical Lymph Node by Subsite was not reported in one patient

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstructive surgery	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
No reconstruction	385	167	15	9	576
Free nerve graft	41	1	0	0	42
Free ALT flap	27	1	1	0	29
PM MC flap	15	2	0	0	17
Free RA MC flap	9	2	3	0	14
Local skin flap	3	0	0	0	3
DP flap	3	0	0	0	3
Free FA flap	0	1	1	1	3
Free fibular OC flap	2	0	0	0	2
Skin graft	1	0	0	0	1
Free scapular OC flap	0	1	0	0	1
Others	18	0	0	0	18
Unknown	37	17	3	2	59
Total	541	192	23	12	768

RA: rectus abdominis.

MC: musculocutaneous.

ALT: anterolateral thigh.

FA: forearm.

PM: pectoralis major.

OC: osteocutaneous.

DP: deltopectoral.

NOS: not otherwise specified.

Neck Dissection on the Ipsilateral Side by Subsite

Treatment Method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No N.D.	223	44	8	6	281
1) Total N.D.	77	43	2	1	123
2) Selective N.D.	193	80	10	4	287
3) Lymph node excision	8	4	0	0	12
8) Others	7	4	0	0	11
9) Unknown	33	17	3	1	54
Total	541	192	23	12	768

N.D.: neck dissection.

NOS: not otherwise specified.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No N.D.	496	168	19	11	694
1) Total N.D.	0	2	0	0	2
2) Selective N.D.	5	2	1	0	8
8) Others	7	3	0	0	10
9) Unknown	33	17	3	1	54
Total	541	192	23	12	768

N.D.: neck dissection.

NOS: not otherwise specified.

Radiotherapy by Subsite

Type of radiotherapy	Parotid gland (C07.9)	Sub- mandibular gland (C08.0)	Sub- lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No radiotherapy	264	93	16	8	381
1) X-ray (and/or electron beam)	238	83	5	2	328
2) Particle beam	6	0	0	1	7
8) Others	1	0	0	0	1
9) Unknown	32	16	2	1	51
Total	541	192	23	12	768

NOS: not otherwise specified.

Chemotherapy by Primary site

Route of administration	Parotid gland (C07.9)	Sub- mandibular gland (C08.0)	Sub- lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No chemotherapy	421	139	16	8	584
1) I.V.	78	34	4	2	118
2) I.A.	1	0	0	0	1
3) Oral	7	5	1	0	13
4) I.V.+I.A.	0	0	0	0	0
5) I.V.+Oral	2	1	0	0	3
9) Unknown	32	13	2	2	49
Total	541	192	23	12	768

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.