

Head and Neck Cancer ----- 13658 Cases

Report of Head and Neck Cancer Registry of Japan
Clinical Statistics of Registered Patients, 2019

Japan Society for Head and Neck Cancer
Cancer Registry Committee

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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 ninth 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 Ethical Guidelines was changed on March 23, 2021 and the protocol of this project was revised into version 1.3 on August 22, 2021 accordingly. The minor refinements of the contents are being prepared for introduction of the 8th UICC TNM classification. Moreover, the clinical study support center (CSSC) 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 2014 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, which reached 100,000 on April, 2021. We expect that this vast organ-based registry led by doctors and CSSC 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 national 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.

March 2, 2022

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

Cancer Registry Committee 2021
Japan Society for Head and Neck Cancer

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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 9th 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 2015.

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, major salivary glands, and unknown primary. 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 Sixth Edition, June 2018, Japan Society for Head and Neck Cancer), which are based on the TNM Classification of Malignant Tumours (Eighth Edition, 2016) of the International Union Against Cancer (UICC).

A total of 29407 cases (including cases other than in the year 2019 and with unknown presentation of diseases, unknown aim for therapies, previously treated) were registered from January 4, 2019 to Oct. 31, 2020. Data correction by each institution is allowed once by the system, and the data registered before Oct. 31, 2020, 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 13,658 for the starting date of the initial therapy from Jan. 1 to Dec. 31, 2019, after excluding cases other than in the year 2019 and with unknown presentation of diseases and duplicated registration.

List of 205 Institutions which participate in the Registry in 2019

- 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 Department of Tissue Regeneration and Reconstruction, Niigata University Medical & Dental Hospital
- 33 Department of Oral and Maxillofacial Surgery, Niigata University Medical & Dental Hospital
- 34 Department of Oral Surgery, Nippon Dental University Hospital
- 35 Department of Otorhinolaryngology, Japanese Red Cross Nagaoka Hosipital
- 36 Department of Otorhinolaryngology, Ibaraki Prefectural Central Hospita

List of 205 Institutions which participate in the Registry in 2019

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

List of 205 Institutions which participate in the Registry in 2019

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

List of 205 Institutions which participate in the Registry in 2019

- 108 Department of Otorhinolaryngology, Gifu University Hospital
- 109 Department of Otorhinolaryngology, Ogaki Municipal Hospital
- 110 Department of Head and Neck Surgery, Aichi Cancer Center
- 111 Department of Otorhinolaryngology, Aichi Medical University Hospital
- 112 Department of Otorhinolaryngology, Toyohashi Municipal Hospital
- 113 Department of Otorhinolaryngology, Fujita Health University Hospital
- 114 Department of Otorhinolaryngology, Nagoya City University Hospital
- 115 Department of Otorhinolaryngology and Oral Surgery, Nagoya University Hospital
- 116 Department of Otorhinolaryngology, Japanese Red Cross Nagoya Daiichi Hospital
- 117 Department of Otorhinolaryngology, Fukui University Hospital
- 118 Department of Otorhinolaryngology, Shiga University of Medical Science Hospital
- 119 Department of Head and Neck Surgery, Kusatsu General Hospital
- 120 Department of Otorhinolaryngology, Japanese Red Cross Otsu Hospital
- 121 Department of Otorhinolaryngology, Shiga General Hospital
- 122 Department of Otorhinolaryngology, Ise Red Cross Hospital
- 123 Department of Otorhinolaryngology, Mie University Hospital
- 124 Department of Otorhinolaryngology, Kyoto Medical Center
- 125 Department of Otorhinolaryngology, Kyoto University Hospital
- 126 Department of Otorhinolaryngology, Japanese Red Cross Kyoto Daiichi Hospital
- 127 Department of Otorhinolaryngology, Japanese Red Cross Kyoto Daini Hospital
- 128 Department of Otorhinolaryngology, Kyoto Prefectural University Hospital
- 129 Department of Otorhinolaryngology, Kinki University Nara Hospital
- 130 Department of Otorhinolaryngology, Nara City Hospital
- 131 Department of Otorhinolaryngology, Tenri Hospital
- 132 Department of Otorhinolaryngology and Oral and Maxillofacial Surgery, Nara Medical University Hospital
- 133 Department of Otorhinolaryngology, Head and Neck Surgery and Oral Surgery, Nara Prefecture General Medical Center
- 134 Department of Otorhinolaryngology, Rinku General Medical Center
- 135 Department of Otorhinolaryngology, Kansai Medical University Hospital
- 136 Department of Otorhinolaryngology, Kitano Hospital
- 137 Department of Oral and Maxillofacial Surgery and Otorhinolaryngology, Kinki University Hospital
- 138 Department of Otorhinolaryngology, Kishiwada City Hospital
- 139 Department of Otorhinolaryngology, Osaka Medical University Hospital
- 140 Department of Otorhinolaryngology, Osaka General Medical Center
- 141 Department of Otorhinolaryngology, Osaka City University Hospital
- 142 Department of Otorhinolaryngology, Osaka City General Hospital
- 143 Department of Otorhinolaryngology, Japanese Red Cross Osaka Hospital

List of 205 Institutions which participate in the Registry in 2019

- 144 Department of Oral Surgery, Osaka University Hospital
- 145 Department of Oral and Maxillofacial Surgery 2, Osaka University Dental Hospital
- 146 Department of Otorhinolaryngology, Osaka Saiseikai Nakatsu Hospital
- 147 Department of Otorhinolaryngology, Osaka Saiseikai Suita Hospital
- 148 Department of Otorhinolaryngology, Yodogawa Christian Hospital
- 149 Department of Otorhinolaryngology, Osaka International Cancer Center
- 150 Department of Otorhinolaryngology, Kansai Rosai Hospital
- 151 Department of Oral Surgery and Otorhinolaryngology, Wakayama Medical University Hospital
- 152 Department of Otorhinolaryngology, Japanese Red Cross Wakayama Medical Center
- 153 Department of Otorhinolaryngology, Kobe City Medical Center General Hospital
- 154 Department of Otorhinolaryngology, Kobe University Hospital
- 155 Department of Oral Surgery, Kobe University Hospital
- 156 Department of Otorhinolaryngology, Hyogo College of Medicine
- 157 Department of Otorhinolaryngology, Hyogo Cancer Center
- 158 Department of Otorhinolaryngology, Hyogo Prefectural Amagasaki General Medical Center
- 159 Department of Otorhinolaryngology, Okayama University Hospital
- 160 Department of Otorhinolaryngology, Himeji Red Cross Hospital
- 161 Department of Otorhinolaryngology, Tottori University Hospital
- 162 Department of Otorhinolaryngology, Kawasaki Medical School Hospital
- 163 Department of Otorhinolaryngology, Kurashiki Central Hospital
- 164 Department of Otorhinolaryngology, Shimane University Hospital
- 165 Department of Otorhinolaryngology, Fukuyama City Hospital
- 166 Department of Otorhinolaryngology, Hiroshima City Hiroshima Citizens Hospital
- 167 Department of Otorhinolaryngology, Hiroshima Red Cross Hospital & Atomic-bomb Survivors Hospital
- 168 Department of Otorhinolaryngology, Hiroshima University Hospital
- 169 Department of Otorhinolaryngology, Kure Medical Center and Chugoku Cancer Center
- 170 Department of Otorhinolaryngology, Yamaguchi University Hospital
- 171 Department of Otorhinolaryngology, Yamaguchi Prefectural General Medical Center
- 172 Department of Otorhinolaryngology, Ehime Prefectural Central Hospital
- 173 Department of Otorhinolaryngology, Ehime University Hospital
- 174 Department of Otorhinolaryngology, Uwajima City Hospital
- 175 Department of Head and Neck Surgery, Shikoku Cancer Center
- 176 Department of Otorhinolaryngology, Kochi Medical Center
- 177 Department of Otorhinolaryngology, Kochi Medical School Hospital
- 178 Department of Otorhinolaryngology, Kagawa University Hospital
- 179 Department of Oral Surgery, Tokushima University Hospital
- 180 Department of Otorhinolaryngology, Tokushima University Hospital

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- 181 Department of Otorhinolaryngology, Oita University Hospital
- 182 Department of Oral Surgery, Oita University Hospital
- 183 Department of Otorhinolaryngology, University of Occupational and Environmental Health
- 184 Department of Otorhinolaryngology, Kokura Memorial Hospital
- 185 Department of Otorhinolaryngology, Kitakushu General Hospital
- 186 Department of Head and Neck Surgery, Kyushu Cancer Center
- 187 Department of Otorhinolaryngology, Kyushu University Hospital
- 188 Department of Otorhinolaryngology, Kyushu Medical Center
- 189 Department of Otorhinolaryngology, Hamanomachi Hospital
- 190 Department of Oral Surgery, Fukuoka University
- 191 Department of Oral Surgery, Fukuoka Dental University
- 192 Department of Otorhinolaryngology, Kurume University Hospital
- 193 Department of Otorhinolaryngology, Saga University Hospital
- 194 Department of Otorhinolaryngology, Sasebo Kyosai Hospital
- 195 Department of Otorhinolaryngology, Sasebo City General Hospital
- 196 Department of Otorhinolaryngology, Nagasaki Medical Center
- 197 Department of Otorhinolaryngology, Nagasaki University Hospital
- 198 Department of Otorhinolaryngology, Kumamoto University Hospital
- 199 Department of Otorhinolaryngology, Miyazaki University Hospital
- 200 Department of Otorhinolaryngology, Miyazaki Prefectural Miyazaki Hospital
- 201 Department of Otorhinolaryngology, Kagoshima Medical Center
- 202 Department of Otorhinolaryngology, Kagoshima City Hospital
- 203 Department of Otorhinolaryngology, Kagoshima University Medical and Dental Hospital
- 204 Department of Otorhinolaryngology, Okinawa Prefectural Chubu Hospital
- 205 Department of Otorhinolaryngology, Ryukyu University Hospital

Total Cases (2019)

13658Cases

Primary Site

Site	Number of patients	(%)
1) Oral cavity	3990	(29.2)
2) Larynx	2420	(17.7)
3) Hypopharynx	2858	(20.9)
4) Oropharynx	2322	(17.0)
5) Nasopharynx	369	(2.7)
6) Nasal cavity, etc	504	(3.7)
7) Maxillary sinus	417	(3.1)
8) Major salivary glands	765	(5.6)
9) Unknown primary	13	(0.1)
Total	13658	(100)

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

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	10	0	10
10 - 19	12	12	24
20 - 29	50	45	95
30 - 39	155	103	258
40 - 49	592	311	903
50 - 59	1373	457	1830
60 - 69	3186	653	3839
70 - 79	3919	909	4828
80 - 89	1199	487	1686
90 - 99	94	89	183
100 - 109	0	0	0
110 - 119	1	1	2
Total	10591	3067	13658

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	(9) Unknown primary	Total
S.C.C., NOS	3224	2129	2519	2068	223	183	310	64	13	10733
S.C.C., keratinizing, NOS	298	105	92	57	13	14	18	3	0	600
S.C.C. in situ, NOS	164	107	146	56	1	6	0	1	0	481
Adenoid cystic ca.	45	2	1	18	7	27	15	132	0	247
Mucoepidermoid ca.	38	3	0	12	1	1	2	107	0	164
Salivary duct ca.	3	0	0	2	0	1	1	148	0	155
S.C.C., large cell, nonkerat., NOS	13	4	35	37	47	10	2	0	0	148
Malig. melanoma, NOS	16	0	0	0	0	92	9	2	0	119
Ca., NOS	12	11	6	6	15	10	9	36	0	105
Adenocarcinoma, NOS	13	1	0	8	0	20	10	48	0	100
Ca. ex pleomorphic adenoma	0	1	0	1	0	1	0	88	0	91
S.C.C., microinvasive	28	6	13	13	0	1	0	0	0	61
Olfactory neuroblastoma	0	0	0	0	0	54	1	0	0	55
Lymphoepithelial ca.	3	3	2	2	36	0	0	8	0	54
Verrucous ca., NOS	36	1	0	1	0	0	0	0	0	38
Malig. lymphoma, NOS	9	0	1	6	2	6	2	7	0	33
Ca., undiff., NOS	1	1	1	1	10	8	7	1	0	30
Acinar cell ca.	2	0	0	0	0	1	0	27	0	30
Neoplasm, malig.	6	2	4	1	1	5	2	7	0	28
Basaloid S.C.C.	4	2	15	4	1	1	0	0	0	27
Spindle cell ca., NOS	11	5	1	2	0	2	6	0	0	27
Epithelial-myoepithelial ca.	3	0	0	0	0	2	0	22	0	27
S.C.C., spindle cell	8	9	0	2	1	2	4	0	0	26
Carcinosarcoma, NOS	1	3	5	0	0	6	1	6	0	22
Myoepithelial ca.	2	0	0	4	0	0	0	15	0	21
S.C.C., small cell, nonkerat.	4	1	0	3	9	2	1	0	0	20
Small cell ca., NOS	2	2	2	3	0	6	1	1	0	17
Adenosquamous ca.	4	2	5	1	0	1	1	0	0	14
S.C.C. in situ with quest. stromal invasion	3	6	2	1	0	0	0	0	0	12
Papillary S.C.C.	2	1	4	3	0	1	0	0	0	11
Basal cell ca., NOS	1	0	0	0	0	6	0	3	0	10
Chondrosarcoma, NOS	2	4	0	0	0	3	0	0	0	9
Osteosarcoma, NOS	4	0	0	0	0	3	1	1	0	9
Neuroendocrine ca., NOS	0	1	0	0	0	6	1	0	0	8
Malig. lymphoma, large B-cell, diffuse, NOS	2	0	0	1	1	2	1	1	0	8
Polymorphous low grade adenocarcinoma	1	0	0	2	0	0	0	4	0	7
Basal cell adenocarcinoma	1	0	0	0	0	0	1	5	0	7
Transitional cell ca., NOS	3	1	1	1	0	1	0	0	0	7
Malig. teratoma, undiff.	3	0	0	1	0	3	0	0	0	7
Secretory ca. of breast	0	0	0	0	0	0	0	6	0	6
Alveolar rhabdomyosarcoma	0	0	1	0	0	4	0	0	0	5
Intraepithelial, NOS	1	3	0	0	0	0	0	0	0	4
Hemangiosarcoma	0	0	0	0	0	0	1	3	0	4
Clear cell ca., NOS	1	0	0	2	0	0	0	1	0	4
Cystadenocarcinoma	1	0	0	0	0	0	0	3	0	4
Mucinous adenocarcinoma	1	0	0	0	0	0	0	2	0	3
Carcinoid tumor, NOS	0	1	0	0	0	1	0	1	0	3
Leiomyosarcoma, NOS	1	0	0	0	0	0	1	1	0	3
Ewing sarcoma	0	0	0	0	0	1	2	0	0	3
Lipoma-like liposarcoma Sclerosing liposarcoma Inflammatory lip	1	0	2	0	0	0	0	0	0	3
Sarcoma, NOS	1	0	0	0	0	0	1	0	0	2
Large cell ca., NOS	0	0	0	0	0	1	0	1	0	2
S.C.C., keratinizing	2	0	0	0	0	0	0	0	0	2
Large cell neuroendocrine ca.	0	1	0	0	0	1	0	0	0	2
Plasmacytoma, NOS	0	0	0	0	0	2	0	0	0	2
Mixed tumor, malig., NOS	0	0	0	0	0	0	1	1	0	2
Rhabdomyosarcoma, NOS	0	0	0	0	0	2	0	0	0	2
Oncocytic ca.	0	0	0	0	0	0	0	2	0	2
Giant cell sarcoma	0	1	0	0	0	1	0	0	0	2
Undiff. pleomorphic sarcoma	1	0	0	0	0	0	1	0	0	2
Malig. tumor, spindle cell type	0	0	0	0	0	0	1	0	0	1
Dedifferentiated liposarcoma	1	0	0	0	0	0	0	0	0	1
Myofibroblastic tumor, NOS	0	0	0	0	0	0	1	0	0	1
Alveolar soft part sarcoma	1	0	0	0	0	0	0	0	0	1
Adnexal ca.	1	0	0	0	0	0	0	0	0	1
Spindle cell rhabdomyosarcoma	1	0	0	0	0	0	0	0	0	1
Malig. peripheral nerve sheath tumor	1	0	0	0	0	0	0	0	0	1
Sebaceous ca.	0	0	0	0	0	0	0	1	0	1
Solitary fibrous tumor, malig.	0	0	0	0	0	0	0	1	0	1
Follicular lymphoma, grade1	0	0	0	0	0	0	0	1	0	1
Anaplastic large cell lymphoma, ALK negative	0	0	0	1	0	0	0	0	0	1
B cell lymphoma, NOS	0	0	0	0	0	1	0	0	0	1
Spindle cell sarcoma	0	0	0	0	0	0	1	0	0	1
Papillary S.C.C., non-invasive	0	0	0	1	0	0	0	0	0	1
Fibromyxosarcoma	0	1	0	0	0	0	0	0	0	1
Synovial sarcoma, spindle cell	0	0	0	0	0	1	0	0	0	1
Plasmacytoma, extramedullary	0	0	0	1	0	0	0	0	0	1
Liposarcoma, NOS	1	0	0	0	0	0	0	0	0	1
Undiff. sarcoma	1	0	0	0	0	0	0	0	0	1
Papillary adenocarcinoma, NOS	0	0	0	0	1	0	0	0	0	1
Follicular lymphoma, grade 2	0	0	0	0	0	0	0	1	0	1
NK/T-cell lymphoma, nasal and nasaltpe	0	0	0	0	0	1	0	0	0	1
Ca. showing thymus-like elements (CASTLE)	0	0	0	0	0	0	0	1	0	1
Tubular adenocarcinoma, NOS	1	0	0	0	0	0	0	0	0	1
Marginal zone B-cell lymphoma, NOS	0	0	0	0	0	0	0	1	0	1
Sialoblastoma	0	0	0	0	0	1	0	0	0	1
Malig. fibrous histiocytoma	0	0	0	0	0	0	1	0	0	1
Low-grade cribriform cystadenocarcinoma	0	0	0	0	0	0	0	1	0	1
Total	3990	2420	2858	2322	369	504	417	765	13	13658

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

NOS: not otherwise specified.

undiff.: undifferentiated.

nonkerat.: nonkeratinizing.

S.C.C.: squamous cell carcinoma.

quest.: questionable.

ca., Ca.: carcinoma.

malig., Malig.: malignant.

kerat.: keratinizing.

Histological Distribution by Primary Site (Male)

Histologic type	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	(9) Unknown primary	Total
S.C.C., NOS	2011	1949	2323	1706	162	135	250	48	9	8593
S.C.C., keratinizing, NOS	183	95	83	47	7	13	12	2	0	442
S.C.C. in situ, NOS	92	96	139	49	1	3	0	1	0	381
Salivary duct ca.	3	0	0	0	0	1	1	126	0	131
S.C.C., large cell, nonkerat., NOS	7	3	33	34	33	4	2	0	0	116
Adenoid cystic ca.	20	2	0	6	5	15	7	45	0	100
Adenocarcinoma, NOS	6	1	0	6	0	18	5	41	0	77
Ca., NOS	6	9	6	6	11	7	4	24	0	73
Mucoepidermoid ca.	16	1	0	3	1	1	1	44	0	67
Ca. ex pleomorphic adenoma	0	1	0	1	0	1	0	62	0	65
S.C.C., microinvasive	22	6	13	11	0	1	0	0	0	53
Malig. melanoma, NOS	11	0	0	0	0	33	2	2	0	48
Lymphoepithelial ca.	2	2	2	2	24	0	0	7	0	39
Olfactory neuroblastoma	0	0	0	0	0	35	1	0	0	36
Basaloid S.C.C.	4	2	14	4	1	1	0	0	0	26
Spindle cell ca., NOS	9	5	1	2	0	1	6	0	0	24
Ca., undiff., NOS	1	1	1	1	7	5	5	1	0	22
Carcinosarcoma, NOS	1	3	4	0	0	5	1	6	0	20
Neoplasm, malig.	3	1	4	0	1	5	1	5	0	20
Verrucous ca., NOS	18	1	0	0	0	0	0	0	0	19
Malig. lymphoma, NOS	3	0	1	2	1	4	2	6	0	19
S.C.C., spindle cell	5	8	0	2	1	1	2	0	0	19
Epithelial-myoepithelial ca.	1	0	0	0	0	0	0	14	0	15
Adenosquamous ca.	4	2	5	1	0	1	1	0	0	14
Small cell ca., NOS	2	2	2	3	0	3	1	1	0	14
S.C.C., small cell, nonkerat.	1	1	0	2	8	1	1	0	0	14
Myoepithelial ca.	2	0	0	3	0	0	0	9	0	14
Acinar cell ca.	1	0	0	0	0	0	0	11	0	12
Basal cell ca., NOS	1	0	0	0	0	6	0	2	0	9
S.C.C. in situ with quest. stromal invasion	2	6	1	0	0	0	0	0	0	9
Papillary S.C.C.	1	1	3	1	0	1	0	0	0	7
Chondrosarcoma, NOS	1	4	0	0	0	1	0	0	0	6
Transitional cell ca., NOS	2	1	1	1	0	1	0	0	0	6
Malig. lymphoma, large B-cell, diffuse, NOS	2	0	0	1	1	1	1	0	0	6
Neuroendocrine ca., NOS	0	1	0	0	0	3	1	0	0	5
Polymorphous low grade adenocarcinoma	1	0	0	1	0	0	0	3	0	5
Basal cell adenocarcinoma	0	0	0	0	0	0	1	4	0	5
Malig. teratoma, undiff.	2	0	0	1	0	2	0	0	0	5
Osteosarcoma, NOS	2	0	0	0	0	2	0	0	0	4
Secretory ca. of breast	0	0	0	0	0	0	0	4	0	4
Intraepithelial, NOS	0	3	0	0	0	0	0	0	0	3
Alveolar rhabdomyosarcoma	0	0	1	0	0	2	0	0	0	3
Lipoma-like liposarcoma Sclerosing liposarcoma Inflammatory lip	1	0	2	0	0	0	0	0	0	3
Ewing sarcoma	0	0	0	0	0	1	1	0	0	2
Clear cell ca., NOS	1	0	0	0	0	0	0	1	0	2
Mixed tumor, malig., NOS	0	0	0	0	0	0	1	1	0	2
Giant cell sarcoma	0	1	0	0	0	1	0	0	0	2
Cystadenocarcinoma	1	0	0	0	0	0	0	1	0	2
Sarcoma, NOS	0	0	0	0	0	0	1	0	0	1
Mucinous adenocarcinoma	1	0	0	0	0	0	0	0	0	1
Large cell ca., NOS	0	0	0	0	0	0	0	1	0	1
Carcinoid tumor, NOS	0	0	0	0	0	0	0	1	0	1
Leiomyosarcoma, NOS	1	0	0	0	0	0	0	0	0	1
Malig. tumor, spindle cell type	0	0	0	0	0	0	1	0	0	1
Dedifferentiated liposarcoma	1	0	0	0	0	0	0	0	0	1
Hemangiosarcoma	0	0	0	0	0	0	1	0	0	1
Adnexal ca.	1	0	0	0	0	0	0	0	0	1
Spindle cell rhabdomyosarcoma	1	0	0	0	0	0	0	0	0	1
Malig. peripheral nerve sheath tumor	1	0	0	0	0	0	0	0	0	1
Large cell neuroendocrine ca.	0	1	0	0	0	0	0	0	0	1
Follicular lymphoma, grade1	0	0	0	0	0	0	0	1	0	1
B cell lymphoma, NOS	0	0	0	0	0	1	0	0	0	1
Spindle cell sarcoma	0	0	0	0	0	0	1	0	0	1
Plasmacytoma, NOS	0	0	0	0	0	1	0	0	0	1
Synovial sarcoma, spindle cell	0	0	0	0	0	1	0	0	0	1
Plasmacytoma, extramedullary	0	0	0	1	0	0	0	0	0	1
Undiff. sarcoma	1	0	0	0	0	0	0	0	0	1
Papillary adenocarcinoma, NOS	0	0	0	0	1	0	0	0	0	1
Follicular lymphoma, grade 2	0	0	0	0	0	0	0	1	0	1
NK/T-cell lymphoma, nasal and nasaltpe	0	0	0	0	0	1	0	0	0	1
Oncocytic ca.	0	0	0	0	0	0	0	1	0	1
Tubular adenocarcinoma, NOS	1	0	0	0	0	0	0	0	0	1
Marginal zone B-cell lymphoma, NOS	0	0	0	0	0	0	0	1	0	1
Sialoblastoma	0	0	0	0	0	1	0	0	0	1
Undiff. pleomorphic sarcoma	0	0	0	0	0	0	1	0	0	1
Low-grade cribriform cystadenocarcinoma	0	0	0	0	0	0	0	1	0	1
Total	2459	2209	2639	1897	265	320	315	478	9	10591

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

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

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

nonkerat.: nonkeratinizing.

Histological Distribution by Primary Site (Female)

Histologic type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	Total
	Oral cavity	Larynx	Hypopharynx	Oropharynx	Nasopharynx	Nasal cavity, etc	Maxillary sinus	Major salivary glands	Unknown primary	
S.C.C., NOS	1213	180	196	362	61	48	60	16	4	2140
S.C.C., keratinizing, NOS	115	10	9	10	6	1	6	1	0	158
Adenoid cystic ca.	25	0	1	12	2	12	8	87	0	147
S.C.C. in situ, NOS	72	11	7	7	0	3	0	0	0	100
Mucoepidermoid ca.	22	2	0	9	0	0	1	63	0	97
Malig. melanoma, NOS	5	0	0	0	0	59	7	0	0	71
S.C.C., large cell, nonkerat., NOS	6	1	2	3	14	6	0	0	0	32
Ca., NOS	6	2	0	0	4	3	5	12	0	32
Ca. ex pleomorphic adenoma	0	0	0	0	0	0	0	26	0	26
Salivary duct ca.	0	0	0	2	0	0	0	22	0	24
Adenocarcinoma, NOS	7	0	0	2	0	2	5	7	0	23
Verrucous ca., NOS	18	0	0	1	0	0	0	0	0	19
Olfactory neuroblastoma	0	0	0	0	0	19	0	0	0	19
Acinar cell ca.	1	0	0	0	0	1	0	16	0	18
Lymphoepithelial ca.	1	1	0	0	12	0	0	1	0	15
Malig. lymphoma, NOS	6	0	0	4	1	2	0	1	0	14
Epithelial-myoepithelial ca.	2	0	0	0	0	2	0	8	0	12
S.C.C., microinvasive	6	0	0	2	0	0	0	0	0	8
Ca., undiff., NOS	0	0	0	0	3	3	2	0	0	8
Neoplasm, malig.	3	1	0	1	0	0	1	2	0	8
Myoepithelial ca.	0	0	0	1	0	0	0	6	0	7
S.C.C., spindle cell	3	1	0	0	0	1	2	0	0	7
S.C.C., small cell, nonkerat.	3	0	0	1	1	1	0	0	0	6
Osteosarcoma, NOS	2	0	0	0	0	1	1	1	0	5
Papillary S.C.C.	1	0	1	2	0	0	0	0	0	4
Small cell ca., NOS	0	0	0	0	0	3	0	0	0	3
Neuroendocrine ca., NOS	0	0	0	0	0	3	0	0	0	3
Spindle cell ca., NOS	2	0	0	0	0	1	0	0	0	3
S.C.C. in situ with quest. stromal invasion	1	0	1	1	0	0	0	0	0	3
Chondrosarcoma, NOS	1	0	0	0	0	2	0	0	0	3
Hemangiosarcoma	0	0	0	0	0	0	0	3	0	3
Carcinosarcoma, NOS	0	0	1	0	0	1	0	0	0	2
Polymorphous low grade adenocarcinoma	0	0	0	1	0	0	0	1	0	2
Basal cell adenocarcinoma	1	0	0	0	0	0	0	1	0	2
Mucinous adenocarcinoma	0	0	0	0	0	0	0	2	0	2
Carcinoid tumor, NOS	0	1	0	0	0	1	0	0	0	2
Leiomyosarcoma, NOS	0	0	0	0	0	0	1	1	0	2
S.C.C., keratinizing	2	0	0	0	0	0	0	0	0	2
Alveolar rhabdomyosarcoma	0	0	0	0	0	2	0	0	0	2
Malig. lymphoma, large B-cell, diffuse, NOS	0	0	0	0	0	1	0	1	0	2
Clear cell ca., NOS	0	0	0	2	0	0	0	0	0	2
Malig. teratoma, undiff.	1	0	0	0	0	1	0	0	0	2
Secretory ca. of breast	0	0	0	0	0	0	0	2	0	2
Rhabdomyosarcoma, NOS	0	0	0	0	0	2	0	0	0	2
Cystadenocarcinoma	0	0	0	0	0	0	0	2	0	2
Basaloid S.C.C.	0	0	1	0	0	0	0	0	0	1
Basal cell ca., NOS	0	0	0	0	0	0	0	1	0	1
Sarcoma, NOS	1	0	0	0	0	0	0	0	0	1
Intraepithelial, NOS	1	0	0	0	0	0	0	0	0	1
Transitional cell ca., NOS	1	0	0	0	0	0	0	0	0	1
Large cell ca., NOS	0	0	0	0	0	1	0	0	0	1
Myofibroblastic tumor, NOS	0	0	0	0	0	0	1	0	0	1
Alveolar soft part sarcoma	1	0	0	0	0	0	0	0	0	1
Ewing sarcoma	0	0	0	0	0	0	1	0	0	1
Sebaceous ca.	0	0	0	0	0	0	0	1	0	1
Solitary fibrous tumor, malig.	0	0	0	0	0	0	0	1	0	1
Large cell neuroendocrine ca.	0	0	0	0	0	1	0	0	0	1
Anaplastic large cell lymphoma, ALK negative	0	0	0	1	0	0	0	0	0	1
Plasmacytoma, NOS	0	0	0	0	0	1	0	0	0	1
Papillary S.C.C., non-invasive	0	0	0	1	0	0	0	0	0	1
Fibromyxosarcoma	0	1	0	0	0	0	0	0	0	1
Liposarcoma, NOS	1	0	0	0	0	0	0	0	0	1
Ca. showing thymus-like elements (CASTLE)	0	0	0	0	0	0	0	1	0	1
Oncocytic ca.	0	0	0	0	0	0	0	1	0	1
Malig. fibrous histiocytoma	0	0	0	0	0	0	1	0	0	1
Undiff. pleomorphic sarcoma	1	0	0	0	0	0	0	0	0	1
Total	1531	211	219	425	104	184	102	287	4	3067

Nasal cavity, etc.: nasal cavity and paranasal sinuses (excluding the maxillary sinus). ca., Ca.: carcinoma.
 NOS: not otherwise specified. S.C.C.: squamous cell carcinoma. malig., Malig.: malignant.
 undiff.: undifferentiated. quest.: questionable. kerat.: keratinizing.
 nonkerat.: nonkeratinizing.

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	10	18	4	0	4	1	2	0	3	1	1	44
T1	2144	280	56	13	82	24	28	0	54	9	1	2691
T1a	568	0	0	1	0	0	0	0	0	2	0	571
T1b	201	1	0	0	1	0	0	0	0	1	0	204
T2	2300	721	102	31	403	131	36	7	130	10	0	3871
T3	1238	394	70	15	424	232	36	3	142	3	1	2558
T4	86	120	103	1	14	12	35	0	6	4	0	381
T4a	861	258	9	22	515	295	12	1	212	5	2	2192
T4b	221	33	1	3	68	55	5	2	43	2	1	434
Tis	465	2	1	0	0	0	0	0	0	9	1	478
TX	32	1	0	1	3	1	2	0	0	119	16	175
T-	5	1	0	0	0	0	0	0	1	0	52	59
Total	8131	1829	346	87	1514	751	156	13	591	165	75	13658

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	8	18	4	0	4	1	2	0	3	1	0	41
T1	2126	278	50	12	79	21	23	0	51	5	0	2645
T1a	566	0	0	1	0	0	0	0	0	0	0	567
T1b	200	1	0	0	1	0	0	0	0	1	0	203
T2	2275	705	95	30	390	120	34	7	123	7	0	3786
T3	1222	386	65	14	404	216	30	2	118	2	1	2460
T4	83	114	93	1	11	9	29	0	6	1	0	347
T4a	835	246	8	22	485	268	8	0	193	2	2	2069
T4b	209	28	1	3	60	46	5	1	33	0	1	387
Tis	464	2	1	0	0	0	0	0	0	0	0	467
TX	29	0	0	1	3	1	1	0	0	14	0	49
T-	5	1	0	0	0	0	0	0	1	0	2	9
Total	8022	1779	317	84	1437	682	132	10	528	33	6	13030

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	2	0	0	0	0	0	0	0	0	0	0	2
T1	3	1	6	1	1	3	5	0	3	0	0	23
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	9	12	6	1	11	9	2	0	7	0	0	57
T3	12	7	5	1	17	16	6	1	23	0	0	88
T4	3	6	9	0	2	3	6	0	0	0	0	29
T4a	19	9	1	0	26	26	3	1	19	1	0	105
T4b	12	3	0	0	8	8	0	1	10	0	0	42
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	3	0	0	0	0	0	1	0	0	1	0	5
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	63	38	27	3	65	65	23	3	62	2	0	351

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

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

T and N Status (MX & M- Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	1	1
T1	15	1	0	0	2	0	0	0	0	4	1	23
T1a	2	0	0	0	0	0	0	0	0	2	0	4
T1b	1	0	0	0	0	0	0	0	0	0	0	1
T2	16	4	1	0	2	2	0	0	0	3	0	28
T3	4	1	0	0	3	0	0	0	1	1	0	10
T4	0	0	1	0	1	0	0	0	0	3	0	5
T4a	7	3	0	0	4	1	1	0	0	2	0	18
T4b	0	2	0	0	0	1	0	0	0	2	0	5
Tis	1	0	0	0	0	0	0	0	0	9	1	11
TX	0	1	0	0	0	0	0	0	0	104	16	121
T-	0	0	0	0	0	0	0	0	0	0	50	50
Total	46	12	2	0	12	4	1	0	1	130	69	277

M-: without reported M classification.

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

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

Head and Neck Cancer ----- 13658 Cases

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	(9) Unknown primary	Total
Surgery										
without	410	1491	1364	1342	349	235	283	101	8	5583
with	3435	896	1430	925	9	256	126	646	5	7728
unknown	144	32	42	37	10	13	7	14	0	299
Radiotherapy										
without	3102	771	1203	832	26	181	63	401	8	6587
with	743	1616	1591	1435	332	310	346	346	5	6724
unknown	144	32	42	37	10	13	7	14	0	299
Chemotherapy										
without	3163	1781	1456	1061	51	287	115	621	12	8547
with	682	606	1338	1206	307	204	294	126	1	4764
unknown	144	32	42	37	10	13	7	14	0	299
Total	3989	2419	2836	2304	368	504	416	761	13	13610

Treatment Method for the Primary Lesion by Primary Site was not reported in 48 patients.

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

Head and Neck Cancer ----- 13658 Cases

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	(9) Unknown primary	Total
Surgery										
without	2246	1947	1920	1691	346	458	333	358	2	9301
with	1543	424	882	584	13	31	67	382	11	3937
unknown	144	35	48	38	10	13	7	14	0	309
Radiotherapy										
without	3229	1850	1463	976	64	421	268	514	6	8791
with	560	521	1339	1299	295	68	132	226	7	4447
unknown	144	35	48	38	10	13	7	14	0	309
Chemotherapy										
without	3246	2002	1615	1166	76	409	278	643	10	9445
with	543	369	1187	1109	283	80	122	97	3	3793
unknown	144	35	48	38	10	13	7	14	0	309
Total	3933	2406	2850	2313	369	502	407	754	13	13547

Treatment Method for the Primary Lesion by Primary Site was not reported in 111 patients.

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

Head and Neck Cancer ----- 13658 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	(9) Unknown primary	Total
No treatment	91	39	73	55	5	16	6	17	5	307
A) Surg. alone	2749	673	946	625	5	116	31	341	3	5489
A)A) Surg.->Surg.	30	11	10	9	0	1	1	3	0	65
A)B) Surg.->Rad.	154	82	127	86	1	69	19	216	1	755
A)C) Surg. -> Chem	40	0	7	7	0	11	1	11	0	77
A)F) Surg.->(Rad.+Chem.)	197	50	134	72	1	17	32	41	1	545
A)B)C) Surg.->Rad.->Chem.	8	1	2	3	0	4	2	5	0	25
A)C)F) Surg. -> Chem->(Rad.+Chem.)	2	1	4	3	0	0	2	0	0	12
A)F)C) Surg.->(Rad.+Chem.)->Chem.	12	1	6	3	0	3	1	5	0	31
B) Rad. alone	106	951	277	275	40	78	53	28	3	1811
B)A) Rad.->Surg.	11	15	7	6	0	0	0	2	0	41
B)C) Rad.->Chem.	2	3	2	3	3	7	4	4	0	28
C) Chem. alone	49	19	68	56	13	21	10	17	0	253
C)A) Chem.->Surg.	98	19	60	59	0	8	5	0	0	249
C)A)B) Chem.->Surg.->Rad.	17	3	21	10	0	7	2	1	0	61
C)A)C) Chem.->Surg.->Chem.	11	0	4	2	0	1	0	0	0	18
C)A)F) Chem.->Surg.->(Rad.+Chem.)	32	6	32	10	0	2	5	1	0	88
C)B) Chem.->Rad.	7	8	16	15	0	11	5	1	0	63
C)B)C)Chem.->Rad.->Chem.	5	1	2	1	3	2	3	0	0	17
C)C)Chem.->Chem.	5	2	12	8	2	2	3	2	0	36
C)C)C) Chem.->Chem.->Chem.	0	0	8	4	0	1	0	3	0	16
C)C)F) Chem.->Chem.->(Rad.+Chem.)	1	1	9	7	0	0	0	0	0	18
C)F) Chem. -> (Rad.+Chem.)	19	30	159	137	24	12	13	0	0	394
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	5	1	7	6	2	4	3	0	0	28
D)(Surg.+Rad.)	4	3	6	2	0	3	0	6	0	24
F)(Rad.+Chem.)	93	421	697	742	215	68	163	17	0	2416
F)A)(Rad.+Chem.)->Surg.	10	13	13	7	0	5	15	1	0	64
F)C)(Rad.+Chem.)->Chem.	10	10	21	17	41	8	12	2	0	121
F)C)C)(Rad.+Chem.)->Chem.->Chem.	1	0	5	2	1	1	2	0	0	12
G)Surg.+Rad.+Chem.	5	4	7	4	0	1	2	5	0	28
Other	71	19	52	31	2	12	14	18	0	219
Unknown	144	32	42	37	10	13	7	14	0	299
Total	3989	2419	2836	2304	368	504	416	761	13	13610

Sequence of Treatment Methods for the Primary Lesion by Primary Site was not reported in 48 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 ----- 13658 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	(9) Unknown primary	Total
No surgery	409	1492	1386	1357	350	235	284	103	8	5624
Partial glossectomy	1397	0	0	2	0	0	0	0	0	1399
Total laryngectomy	0	453	16	10	0	0	0	0	0	479
Total pharyngolaryngectomy	0	16	372	4	0	0	0	0	0	392
Unilateral resection of the lateral wall of the oropharynx	1	0	0	354	0	0	0	1	5	361
Endoscopic resection	0	4	342	5	0	1	0	0	0	352
Transoral resection	0	15	298	25	0	0	0	0	0	338
Transoral resection	1	272	13	7	0	0	0	0	0	293
Segmental mandibulectomy	261	0	0	0	0	0	0	5	0	266
Partial maxillectomy	197	0	0	0	0	27	29	0	0	253
Resection of the floor of mouth	231	0	0	0	0	0	0	11	0	242
Total pharyngolaryngo-esophagectomy	1	6	218	6	0	0	0	0	0	231
Resection of the buccal mucosa	228	0	1	0	0	0	0	0	0	229
Subtotal glossectomy	211	0	0	6	0	0	0	0	0	217
Marginal mandibulectomy	198	0	0	0	0	0	0	1	0	199
Resection of oral cavity, NOS	172	0	1	0	0	0	0	1	0	174
Total parotidectomy	0	0	0	0	0	0	0	160	0	160
Superficial parotidectomy	0	2	0	0	0	0	0	147	0	149
Submandibulectomy	0	0	0	0	0	0	0	149	0	149
Hemiglossectomy	134	0	0	4	0	0	0	2	0	140
Maxillectomy, other type	8	0	0	0	0	103	11	0	0	122
Resection of the oropharynx, other type	2	0	1	111	0	0	0	0	0	114
Hemiglossectomy (anterior 2/3rds)	102	0	0	0	0	0	0	0	0	102
Resection of the soft palate	5	0	0	97	0	0	0	0	0	102
Total maxillectomy	27	0	0	0	0	5	68	0	0	100
Resection of the root of tongue	0	0	0	96	0	0	0	0	0	96
Endoscopic resection	0	49	22	2	0	0	0	0	0	73
Endoscopic skull base surgery	0	0	0	1	1	64	0	0	0	66
Resection of the posterior wall	1	0	0	61	1	0	0	0	0	63
Subtotal glossectomy (anterior 2/3rds)	59	0	0	0	0	0	0	0	0	59
Resection of lower gingiva	58	0	0	0	0	0	0	0	0	58
Extended total parotidectomy	0	0	0	0	0	0	0	58	0	58
Total laryngectomy+Partial pharyngectomy	0	6	41	0	0	0	0	0	0	47
Partial parotidectomy	0	0	0	0	0	0	0	45	0	45
Unilateral resection of the lateral wall of the oropharynx and soft	1	0	0	41	0	0	0	0	0	42
Resection of the lip	41	0	0	0	0	0	0	0	0	41
Total glossectomy	31	0	0	9	0	0	0	0	0	40
Partial hypopharyngectomy	0	0	40	0	0	0	0	0	0	40
Partial laryngectomy	0	34	0	0	0	0	0	0	0	34
Others	65	35	53	83	6	55	18	67	0	382
Unknown	146	35	54	41	11	14	7	14	0	322
Total	3987	2419	2858	2322	369	504	417	764	13	13653

Surgical Method 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 ----- 13658 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	(9) Unknown primary	Total
No reconstruction	2598	2298	2125	2065	355	406	325	600	13	10785
Free jejunal flap	3	26	548	19	1	0	0	0	0	597
Free ALT flap	367	15	37	89	1	4	16	48	0	577
Free RA MC flap	284	2	0	50	0	7	52	13	0	408
Free FA flap	131	2	18	17	0	0	4	5	0	177
PM MC flap	52	26	23	17	0	0	0	11	0	129
Free fibular OC flap	124	0	0	1	0	1	1	2	0	129
Skin graft	89	1	3	4	0	2	4	2	0	105
Local skin flap	54	8	5	4	0	11	1	11	0	94
Mucosal flap	18	0	1	5	0	45	1	0	0	70
Free nerve graft	0	0	0	0	0	0	0	45	0	45
Gastric pull-up	0	0	29	1	0	0	0	0	0	30
Free scapular OC flap	21	0	0	2	0	1	1	1	0	26
DP flap	5	5	4	0	0	0	0	3	0	17
Others	95	1	10	5	1	13	4	9	0	138
Unknown	149	36	55	43	11	14	8	15	0	331
Total	3990	2420	2858	2322	369	504	417	765	13	13658

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 ----- 13658 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	(9) Unknown primary	Total
0) No N.D.	2263	1950	1927	1695	348	460	337	364	2	9346
1) Total N.D.	485	101	258	164	0	10	23	114	4	1159
2) Selective N.D.	1059	308	607	408	10	16	50	249	6	2713
3) Lymph node excision	17	5	1	8	0	0	0	16	0	47
8) Others	10	15	11	4	0	4	0	6	0	50
9) Unknown	156	41	54	43	11	14	7	16	1	343
Total	3990	2420	2858	2322	369	504	417	765	13	13658

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	(9) Unknown primary	Total
0) No N.D.	3356	2104	2160	2158	354	478	402	724	11	11747
1) Total N.D.	72	42	112	22	0	1	3	3	1	256
2) Selective N.D.	393	216	519	95	4	6	5	14	1	1253
3) Lymph node excision	1	5	0	0	0	0	0	2	0	8
8) Others	13	11	13	4	0	5	0	6	0	52
9) Unknown	155	42	54	43	11	14	7	16	0	342
Total	3990	2420	2858	2322	369	504	417	765	13	13658

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

Radiotherapy by Primary Site

Type of radiotherapy	(1) Oral cavity	(2) Larynx	(3) Hypopharynx	(4) Oropharynx	(5) Nasopharynx	(6) Nasal cavity, etc	(7) Maxillary sinus	(8) Major salivary glands	(9) Unknown primary	Total
0) No radiotherapy	3045	759	1177	819	22	168	60	386	6	6442
1) X-ray (and/or electron beam)	750	1620	1633	1448	332	245	319	340	7	6694
2) Particle beam	7	0	1	7	3	74	30	22	0	144
3) B.T.	39	0	0	5	0	1	0	0	0	45
4) X-ray + Particle beam	0	0	1	1	0	0	0	1	0	3
5) X-ray + B.T.	0	0	0	1	0	0	0	0	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	3	1	1	0	5
9) Unknown	149	41	46	41	12	13	7	15	0	324
Total	3990	2420	2858	2322	369	504	417	765	13	13658

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

B.T.: brachytherapy.

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	(9) Unknown primary	Total
0) No chemotherapy	3110	1770	1448	1030	51	279	112	618	10	8428
1) I.V.	507	520	1316	1202	301	188	145	121	2	4302
2) I.A.	57	7	1	10	1	15	137	1	0	229
3) Oral	114	73	33	24	2	5	0	7	1	259
4) I.V.+I.A.	11	0	1	2	0	3	10	0	0	27
5) I.V.+Oral	27	16	14	15	3	0	1	2	0	78
6) I.A.+Oral	9	0	0	0	0	0	3	0	0	12
7) I.V.+I.A.+Oral	5	0	0	0	0	1	0	0	0	6
8) Others	2	0	0	1	0	0	0	0	0	3
9) Unknown	148	34	45	38	11	13	9	16	0	314
Total	3990	2420	2858	2322	369	504	417	765	13	13658

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

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

Oral Cavity (2019)

3990 Cases

Primary Site

Site	Number of patients	(%)
1) Lip	37	(0.9)
2) Buccal mucosa	286	(7.2)
3) Retro-molar area	72	(1.8)
4) Lower gingiva	577	(14.5)
5) Upper gingiva	364	(9.1)
6) Hard palate	120	(3.0)
7) Floor of mouth	354	(8.9)
8) Tongue	2164	(54.2)
9) Oral cavity, NOS	16	(0.4)
Total	3990	100

NOS: not otherwise specified

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	3	0	3
10 - 19	5	4	9
20 - 29	26	27	53
30 - 39	87	64	151
40 - 49	209	143	352
50 - 59	362	197	559
60 - 69	655	272	927
70 - 79	774	437	1211
80 - 89	313	316	629
90 - 99	25	70	95
100 - 109	0	0	0
110 - 119	0	1	1
Total	2459	1531	3990

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	1	0	1
40 - 49	0	1	1
50 - 59	1	0	1
60 - 69	4	4	8
70 - 79	9	6	15
80 - 89	4	5	9
90 - 99	0	1	1
100 - 109	0	0	0
Total	20	17	37

Carcinoma of the Buccal Mucosa

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	2	3
40 - 49	10	2	12
50 - 59	14	11	25
60 - 69	35	15	50
70 - 79	69	45	114
80 - 89	42	31	73
90 - 99	1	8	9
100 - 109	0	0	0
Total	172	114	286

Carcinoma of the Retromolar Area

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	1	1
40 - 49	4	3	7
50 - 59	5	4	9
60 - 69	11	3	14
70 - 79	23	6	29
80 - 89	8	1	9
90 - 99	1	1	2
100 - 109	0	0	0
Total	53	19	72

Carcinoma of the Lower Gingiva

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	2	2
30 - 39	4	3	7
40 - 49	11	3	14
50 - 59	45	22	67
60 - 69	82	51	133
70 - 79	130	84	214
80 - 89	48	71	119
90 - 99	6	15	21
100 - 109	0	0	0
Total	326	251	577

Carcinoma of the Upper Gingiva

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	0	1
20 - 29	1	0	1
30 - 39	4	2	6
40 - 49	2	3	5
50 - 59	22	12	34
60 - 69	48	15	63
70 - 79	69	58	127
80 - 89	46	59	105
90 - 99	6	16	22
100 - 109	0	0	0
Total	199	165	364

Carcinoma of the Hard Palate

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	2	1	3
20 - 29	1	2	3
30 - 39	5	3	8
40 - 49	4	1	5
50 - 59	1	8	9
60 - 69	22	12	34
70 - 79	27	13	40
80 - 89	10	5	15
90 - 99	1	2	3
100 - 109	0	0	0
Total	73	47	120

Carcinoma of the Floor of Mouth

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	2	2	4
40 - 49	13	8	21
50 - 59	40	9	49
60 - 69	104	25	129
70 - 79	79	26	105
80 - 89	28	16	44
90 - 99	0	1	1
100 - 109	0	0	0
Total	267	87	354

Carcinoma of the Tongue

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	1	3	4
20 - 29	24	23	47
30 - 39	70	51	121
40 - 49	165	122	287
50 - 59	234	131	365
60 - 69	343	146	489
70 - 79	365	197	562
80 - 89	124	127	251
90 - 99	10	26	36
100 - 109	0	0	0
110 - 119	0	1	1
Total	1337	827	2164

Carcinoma of the Oral Cavity, NOS

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	0	0	0
50 - 59	0	0	0
60 - 69	6	1	7
70 - 79	3	2	5
80 - 89	3	1	4
90 - 99	0	0	0
100 - 109	0	0	0
Total	12	4	16

Carcinoma of the Oral Cavity ----- 3990Cases

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
S.C.C., NOS	26	225	51	491	292	59	270	1799	11	3224
S.C.C., keratinizing, NOS	2	22	10	46	28	4	32	154	0	298
S.C.C. in situ, NOS	1	9	2	7	9	4	7	125	0	164
Adenoid cystic ca.	0	6	2	2	2	10	15	6	2	45
Mucoepidermoid ca.	2	4	4	3	2	17	3	3	0	38
Verrucous ca., NOS	1	3	0	3	6	1	4	18	0	36
S.C.C., microinvasive	0	0	1	0	2	1	3	21	0	28
Malig. melanoma, NOS	0	1	0	0	7	8	0	0	0	16
S.C.C., large cell, nonkerat., NOS	0	0	1	1	1	1	2	7	0	13
Adenocarcinoma, NOS	0	4	0	1	1	1	3	1	2	13
Ca., NOS	2	1	0	2	0	3	0	4	0	12
Spindle cell ca., NOS	0	0	0	3	3	0	0	5	0	11
Malig. lymphoma, NOS	0	3	0	3	3	0	0	0	0	9
S.C.C., spindle cell	0	0	1	2	1	0	1	3	0	8
Neoplasm, malig.	0	0	0	4	1	1	0	0	0	6
Basaloid S.C.C.	0	0	0	0	0	0	3	1	0	4
Adenosquamous ca.	0	1	0	0	1	0	1	1	0	4
S.C.C., small cell, nonkerat.	0	0	0	1	0	0	2	1	0	4
Osteosarcoma, NOS	0	0	0	2	2	0	0	0	0	4
Salivary duct ca.	0	2	0	0	0	1	0	0	0	3
Lymphoepithelial ca.	0	1	0	1	0	0	1	0	0	3
S.C.C. in situ with quest. stromal invasion	0	0	0	0	0	0	1	2	0	3
Epithelial-myoepithelial ca.	0	0	0	0	0	3	0	0	0	3
Transitional cell ca., NOS	0	0	0	0	0	0	1	2	0	3
Malig. teratoma, undiff.	0	2	0	0	0	1	0	0	0	3
Small cell ca., NOS	0	1	0	0	1	0	0	0	0	2
Myoepithelial ca.	0	0	0	0	0	2	0	0	0	2
Papillary S.C.C.	0	0	0	0	0	0	1	1	0	2
Acinar cell ca.	0	0	0	0	0	0	2	0	0	2
Chondrosarcoma, NOS	0	0	0	2	0	0	0	0	0	2
S.C.C., keratinizing	0	0	0	0	0	0	1	1	0	2
Malig. lymphoma, large B-cell, diffuse, NOS	0	0	0	0	2	0	0	0	0	2
Carcinosarcoma, NOS	0	0	0	0	0	0	0	1	0	1
Basal cell ca., NOS	1	0	0	0	0	0	0	0	0	1
Sarcoma, NOS	0	0	0	0	0	1	0	0	0	1
Ca., undiff., NOS	0	0	0	1	0	0	0	0	0	1
Polymorphous low grade adenocarcinoma	0	0	0	0	0	1	0	0	0	1
Basal cell adenocarcinoma	0	0	0	0	0	1	0	0	0	1
Mucinous adenocarcinoma	0	0	0	1	0	0	0	0	0	1
Intraepithelial, NOS	0	0	0	0	0	0	1	0	0	1
Leiomyosarcoma, NOS	0	0	0	0	0	0	0	0	1	1
Dedifferentiated liposarcoma	0	0	0	0	0	0	0	1	0	1
Alveolar soft part sarcoma	0	0	0	0	0	0	0	1	0	1
Adnexal ca.	1	0	0	0	0	0	0	0	0	1
Spindle cell rhabdomyosarcoma	0	0	0	0	0	0	0	1	0	1
Malig. peripheral nerve sheath tumor	0	0	0	0	0	0	0	1	0	1
Lipoma-like liposarcoma Sclerosing liposarcoma Inflammatory lip	0	0	0	0	0	0	0	1	0	1
Clear cell ca., NOS	0	1	0	0	0	0	0	0	0	1
Liposarcoma, NOS	0	0	0	0	0	0	0	1	0	1
Undiff. sarcoma	0	0	0	0	0	0	0	1	0	1
Tubular adenocarcinoma, NOS	0	0	0	0	0	0	0	1	0	1
Cystadenocarcinoma	1	0	0	0	0	0	0	0	0	1
Undiff. pleomorphic sarcoma	0	0	0	1	0	0	0	0	0	1
Total	37	286	72	577	364	120	354	2164	16	3990

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
T0	4(1)	0	0	0	2	0	0	0	1	0	0	7
T1	1002	23	0	0	14	4	0	0	7	5	1	1056
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	1	0	0	0	0	0	0	1
T2	878	110	1	5	68(1)	13	0	1	15	6	0	1097
T3	381	100(1)	1	3(1)	151(3)	47(3)	1	0	27(1)	1	0	712
T4	11	6(1)	0	0	1	1	2(2)	0	2	2	0	25
T4a	319(4)	109(1)	3	4	187(7)	89(4)	0	1(1)	45(5)	3	2	762
T4b	35(1)	12	1	0	22(1)	11	1	0	10	0	0	92
Tis	159	0	0	0	0	0	0	0	0	2	0	161
TX	8(1)	0	0	0	2	0	0	0	0	57	2	69
T-	0	0	0	0	0	0	0	0	0	0	8	8
Total	2797	360	6	12	448	165	4	2	107	76	13	3990

M1:39 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 Lip

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	14	1	0	0	0	0	0	0	0	1	0	16
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	1	0	0	0	0	0	0	1
T2	8	2	0	0	2	1	0	0	0	0	0	13
T3	2	0	0	0	0	0	0	0	0	0	0	2
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	0	0	0	0	0	1	0	0	0	0	0	1
T4b	0	0	0	0	0	0	0	0	0	0	0	0
Tis	1	0	0	0	0	0	0	0	0	0	0	1
TX	0	0	0	0	0	0	0	0	0	3	0	3
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	25	3	0	0	3	2	0	0	0	4	0	37

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
T0	1	0	0	0	0	0	0	0	0	0	0	1
T1	57	2	0	0	3	1	0	0	0	0	0	63
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	78	13	0	2	11	2	0	0	4	1	0	111
T3	20	6	0	0	7	1	0	0	2(1)	0	0	36
T4	1	0	0	0	0	0	0	0	0	1	0	2
T4a	20	9	0	1	7	3	0	0	3	0	0	43
T4b	4	4	0	0	3	0	0	0	1	0	0	12
Tis	11	0	0	0	0	0	0	0	0	0	0	11
TX	1	0	0	0	0	0	0	0	0	3	0	4
T-	0	0	0	0	0	0	0	0	0	0	3	3
Total	193	34	0	3	31	7	0	0	10	5	3	286

M1:1 case. 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
T0	0	0	0	0	1	0	0	0	0	0	0	1
T1	17	0	0	0	0	0	0	0	0	0	0	17
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	14	3	0	0	2	0	0	0	0	0	0	19
T3	7	5	0	0	3	0	0	0	0	0	0	15
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	7	0	0	0	4(1)	0	0	0	2	0	0	13
T4b	1	0	0	0	3	1	0	0	0	0	0	5
Tis	1	0	0	0	0	0	0	0	0	0	0	1
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	48	8	0	0	13	1	0	0	2	0	0	72

M1:1 case. 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
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	87	2	0	0	2	0	0	0	1	0	0	92
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	89	13	0	1	6	1	0	0	2	2	0	114
T3	24	6	0	0	6	1	1	0	1	0	0	39
T4	5	3	0	0	0	0	0	0	0	1	0	9
T4a	113(1)	50	2	2	87(1)	12	0	0	15(2)	0	0	281
T4b	9	4	0	0	7	2	1	0	3	0	0	26
Tis	8	0	0	0	0	0	0	0	0	0	0	8
TX	0	0	0	0	0	0	0	0	0	5	0	5
T-	0	0	0	0	0	0	0	0	0	0	3	3
Total	335	78	2	3	108	16	2	0	22	8	3	577

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

Carcinoma of the Upper Gingiva 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	48	1	0	0	1	0	0	0	0	0	0	50
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	68	12	0	0	2	0	0	0	0	0	0	82
T3	29	8	0	0	2	1	0	0	1	0	0	41
T4	1	1	0	0	1	0	0	0	0	0	0	3
T4a	90(1)	15	1	1	27(3)	9(1)	0	0	1	0	0	144
T4b	12(1)	3	1	0	8(1)	5	0	0	2	0	0	31
Tis	6	0	0	0	0	0	0	0	0	0	0	6
TX	1	0	0	0	0	0	0	0	0	2	2	5
T-	0	0	0	0	0	0	0	0	0	0	2	2
Total	255	40	2	1	41	15	0	0	4	2	4	364

M1:7 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 Hard Palate

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	33	0	0	0	0	0	0	0	0	0	0	33
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	22	3	0	0	1	1	0	0	0	1	0	28
T3	10	0	0	0	0	0	0	0	0	0	0	10
T4	0	1(1)	0	0	0	0	0	0	0	0	0	1
T4a	16	4(1)	0	0	2	8(1)	0	0	0	1	2	33
T4b	6	0	0	0	0	1	0	0	0	0	0	7
Tis	6	0	0	0	0	0	0	0	0	0	0	6
TX	1(1)	0	0	0	0	0	0	0	0	1	0	2
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	94	8	0	0	3	10	0	0	0	3	2	120

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

Carcinoma of the Floor Mouth

T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	1(1)	0	0	0	0	0	0	0	0	0	0	1
T1	106	4	0	0	3	0	0	0	5	1	1	120
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	83	8	0	0	6	1	0	0	4	0	0	102
T3	36	12(1)	0	2(1)	11	7	0	0	1	0	0	69
T4	2	0	0	0	0	0	0	0	2	0	0	4
T4a	15(1)	6	0	0	11	12(1)	0	1(1)	3	0	0	48
T4b	0	0	0	0	0	0	0	0	0	0	0	0
Tis	7	0	0	0	0	0	0	0	0	0	0	7
TX	1	0	0	0	0	0	0	0	0	2	0	3
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	251	30	0	2	31	20	0	1	15	3	1	354

M1:6 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 Tongue T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	2	0	0	0	1	0	0	0	0	0	0	3
T1	640	13	0	0	5	3	0	0	1	3	0	665
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	514	56	1	2	38(1)	7	0	1	4	2	0	625
T3	253	63	1	1	122(3)	37(3)	0	0	22	1	0	500
T4	2	1	0	0	0	1	2(2)	0	0	0	0	6
T4a	54(1)	25	0	0	47(1)	44(1)	0	0	20(3)	1	0	191
T4b	2	0	0	0	1	1	0	0	4	0	0	8
Tis	119	0	0	0	0	0	0	0	0	2	0	121
TX	3	0	0	0	1	0	0	0	0	41	0	45
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	1589	158	2	3	215	93	2	1	51	50	0	2164

M1:15 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, 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	1	0	0	1
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	1	0	0	3
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	4	0	0	0	2(1)	0	0	0	1	1	0	8
T4b	1	1	0	0	0	1	0	0	0	0	0	3
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	1	0	0	0	0	0	0	1
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	7	1	0	0	3	1	0	0	3	1	0	16

M1:1 case. 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	(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	3	34	15	60	76	26	38	150	8	410
with	34	241	57	493	266	91	306	1939	8	3435
unknown	0	11	0	24	21	3	10	75	0	144
Radiotherapy										
without	29	205	50	422	248	90	269	1780	9	3102
with	8	70	22	131	94	27	75	309	7	743
unknown	0	11	0	24	21	3	10	75	0	144
Chemotherapy										
without	33	220	51	435	249	85	276	1805	9	3163
with	4	55	21	118	93	32	68	284	7	682
unknown	0	11	0	24	21	3	10	75	0	144
Total	37	286	72	577	363	120	354	2164	16	3989

NOS: not otherwise specified.

Treatment Method for the Primary Lesion by Subsite was not reported in 1 patient.

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	28	167	43	223	247	101	181	1247	9	2246
with	9	105	29	326	88	16	157	806	7	1543
unknown	0	11	0	24	21	3	10	75	0	144
Radiotherapy										
without	34	222	55	439	281	106	280	1803	9	3229
with	3	50	17	110	54	11	58	250	7	560
unknown	0	11	0	24	21	3	10	75	0	144
Chemotherapy										
without	34	231	55	449	284	98	284	1802	9	3246
with	3	41	17	100	51	19	54	251	7	543
unknown	0	11	0	24	21	3	10	75	0	144
Total	37	283	72	573	356	120	348	2128	16	3933

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite was not reported in 57 patients.

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	5	2	18	18	4	5	36	3	91
A) Surg. alone	29	185	45	354	198	74	239	1621	4	2749
A)F) Surg.->(Rad.+Chem.)	1	18	4	34	16	3	21	98	2	197
A)B) Surg.->Rad.	2	15	2	32	13	3	17	69	1	154
B) Rad. alone	1	11	2	19	15	3	10	44	1	106
C)A) Chem.->Surg.	0	7	0	23	10	1	13	43	1	98
F)(Rad.+Chem.)	1	8	7	8	19	6	9	34	1	93
C) Chem. alone	0	3	1	3	10	5	5	21	1	49
A)C) Surg.->Chem	0	2	0	6	6	5	1	20	0	40
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	4	1	5	2	1	3	16	0	32
A)A) Surg.->Surg.	0	2	1	3	3	0	2	19	0	30
C)F) Chem. -> (Rad.+Chem.)	0	3	1	3	1	2	3	6	0	19
C)A)B) Chem.->Surg.->Rad.	0	3	1	4	3	0	1	5	0	17
A)F)C) Surg.->(Rad.+Chem.)->Chem.	0	0	0	3	2	0	0	7	0	12
B)A) Rad.->Surg.	0	1	0	2	0	0	0	8	0	11
C)A)C) Chem.->Surg.->Chem.	0	1	0	3	0	0	0	7	0	11
Other	3	7	5	33	26	10	15	35	2	136
Unknown	0	11	0	24	21	3	10	75	0	144
Total	37	286	72	577	363	120	354	2164	16	3989

NOS: not otherwise specified.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

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	3	34	15	59	76	26	38	150	8	409
A1 Partial glossectomy	0	0	0	2	0	0	2	1393	0	1397
B2 Segmental mandibulectomy	0	6	6	230	0	0	16	0	3	261
C2 Resection of the floor of mouth	0	0	0	3	0	1	224	2	1	231
C4 Resection of the buccal mucosa	0	198	24	4	1	0	0	1	0	228
A5 Subtotal glossectomy	0	0	0	0	0	0	9	202	0	211
B1 Marginal mandibulectomy	0	10	12	158	1	0	16	1	0	198
D1 Partial maxillectomy	0	5	4	1	162	25	0	0	0	197
C9 Resection of oral cavity, NOS	2	12	6	3	70	51	23	3	2	172
A4 Hemiglossectomy	0	0	0	0	0	0	1	133	0	134
A2 Hemiglossectomy (anterior 2/3rds)	0	0	0	0	0	0	1	101	0	102
A3 Subtotal glossectomy (anterior 2/3rds)	0	0	0	0	0	0	3	56	0	59
C3 Resection of lower gingiva	0	1	0	52	0	0	5	0	0	58
C1 Resection of the lip	32	8	0	0	0	0	1	0	0	41
A6 Total glossectomy	0	0	0	0	0	0	0	31	0	31
Others	0	1	5	39	33	14	5	13	2	112
V9 Unknown	0	11	0	25	21	3	10	76	0	146
Total	37	286	72	576	364	120	354	2162	16	3987

Surgical Method for the Primary Lesion by Subsite was not reported in 3 patients.

NOS: not otherwise specified.

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	26	163	47	248	271	100	201	1532	10	2598
E) Free ALT flap	1	27	13	32	15	4	45	230	0	367
D) Free RA MC flap	0	14	4	70	12	3	23	158	0	284
C) Free FA flap	1	16	2	6	2	2	22	80	0	131
G) Free fibular OC flap	0	2	2	97	4	1	14	2	2	124
1) Skin graft	0	20	1	13	24	2	14	15	0	89
2) Local skin flap	8	15	1	12	4	0	6	8	0	54
5) PM MC flap	0	2	0	20	0	0	4	24	2	52
F) Free scapular OC flap	0	0	0	17	1	1	2	0	0	21
3) Mucosal flap	1	7	0	5	1	2	1	1	0	18
4) DP flap	0	0	1	2	0	0	1	1	0	5
B) Free jejunal flap	0	0	0	0	0	0	0	2	1	3
7) Gastric pull-up	0	0	0	0	0	0	0	0	0	0
I) Free nerve graft	0	0	0	0	0	0	0	0	0	0
Others	0	8	1	28	9	2	11	35	1	95
9) Unknown	0	12	0	27	21	3	10	76	0	149
Total	37	286	72	577	364	120	354	2164	16	3990

NOS: not otherwise specified.

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	(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.	29	167	43	228	247	101	183	1256	9	2263
2) Selective N.D.	7	72	19	213	66	10	117	550	5	1059
1) Total N.D.	1	31	10	103	25	5	41	267	2	485
3) Lymph node excision	0	1	0	7	2	0	0	7	0	17
8) Others	0	0	0	1	1	1	2	5	0	10
9) Unknown	0	15	0	25	23	3	11	79	0	156
Total	37	286	72	577	364	120	354	2164	16	3990

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.	34	255	72	463	328	112	258	1819	15	3356
1) Total N.D.	0	0	0	9	2	2	6	53	0	72
2) Selective N.D.	2	15	0	79	11	2	77	206	1	393
3) Lymph node excision	0	0	0	0	0	0	0	1	0	1
8) Others	1	0	0	1	1	1	2	7	0	13
9) Unknown	0	16	0	25	22	3	11	78	0	155
Total	37	286	72	577	364	120	354	2164	16	3990

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

Carcinoma of the Oral Cavity ----- 3990Cases

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	29	201	49	412	246	89	266	1746	7	3045
1) X-ray (and/or electron beam)	7	69	23	138	96	26	73	310	8	750
2) Particle beam	0	1	0	1	1	2	0	1	1	7
3) B.T.	1	3	0	0	0	0	5	30	0	39
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	0	0	0
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	0	12	0	26	21	3	10	77	0	149
Total	37	286	72	577	364	120	354	2164	16	3990

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	29	219	50	427	248	83	274	1772	8	3110
1) I.V.	5	40	15	91	49	23	51	225	8	507
2) I.A.	0	1	1	4	26	2	7	16	0	57
3) Oral	2	13	3	17	14	4	9	52	0	114
4) I.V.+I.A.	0	1	0	0	2	0	0	8	0	11
5) I.V.+Oral	1	0	3	8	1	4	1	9	0	27
6) I.A.+Oral	0	0	0	3	3	0	2	1	0	9
7) I.V.+I.A.+Oral	0	0	0	1	0	0	0	4	0	5
8) Others	0	0	0	1	0	1	0	0	0	2
9) Unknown	0	12	0	25	21	3	10	77	0	148
Total	37	286	72	577	364	120	354	2164	16	3990

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial

Larynx (2019)

2420 Cases

Primary Site

Site	Number of patients	(%)
Glottis	1693	(70.0)
Supraglottis	631	(26.1)
Subglottis	55	(2.3)
Larynx, NOS	41	(1.7)
Total	2420	(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	2	0	2
30 - 39	4	1	5
40 - 49	32	8	40
50 - 59	187	28	215
60 - 69	644	50	694
70 - 79	951	87	1038
80 - 89	355	35	390
90 - 99	32	2	34
100 - 109	0	0	0
Total	2209	211	2420

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	2	0	2
40 - 49	20	3	23
50 - 59	142	15	157
60 - 69	447	28	475
70 - 79	673	52	725
80 - 89	262	23	285
90 - 99	24	0	24
100 - 109	0	0	0
Total	1572	121	1693

Supraglottis 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	1	1	2
40 - 49	10	5	15
50 - 59	39	10	49
60 - 69	168	21	189
70 - 79	246	34	280
80 - 89	75	10	85
90 - 99	7	2	9
100 - 109	0	0	0
Total	548	83	631

Subglottis Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	0	1
40 - 49	0	0	0
50 - 59	3	0	3
60 - 69	16	0	16
70 - 79	19	1	20
80 - 89	13	1	14
90 - 99	1	0	1
100 - 109	0	0	0
Total	53	2	55

Carcinoma of the Larynx, NOS Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	2	0	2
50 - 59	3	3	6
60 - 69	13	1	14
70 - 79	13	0	13
80 - 89	5	1	6
90 - 99	0	0	0
100 - 109	0	0	0
Total	36	5	41

NOS: not otherwise specified

Histological Distribution by Subsite

Histologic type	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
S.C.C., NOS	1490	557	47	35	2129
S.C.C. in situ, NOS	89	17	1	0	107
S.C.C., keratinizing, NOS	76	26	2	1	105
Ca., NOS	4	6	0	1	11
S.C.C., spindle cell	6	3	0	0	9
S.C.C., microinvasive	6	0	0	0	6
S.C.C. in situ with quest. stromal invasion	3	2	0	1	6
Spindle cell ca., NOS	5	0	0	0	5
S.C.C., large cell, nonkerat., NOS	1	3	0	0	4
Chondrosarcoma, NOS	0	1	3	0	4
Mucoepidermoid ca.	0	1	0	2	3
Lymphoepithelial ca.	0	3	0	0	3
Carcinosarcoma, NOS	2	1	0	0	3
Intraepithelial, NOS	3	0	0	0	3
Basaloid S.C.C.	0	1	1	0	2
Adenoid cystic ca.	0	1	1	0	2
Adenosquamous ca.	1	1	0	0	2
Small cell ca., NOS	0	2	0	0	2
Neoplasm, malig.	0	2	0	0	2
Verrucous ca., NOS	1	0	0	0	1
Ca. ex pleomorphic adenoma	1	0	0	0	1
Adenocarcinoma, NOS	1	0	0	0	1
S.C.C., small cell, nonkerat.	0	1	0	0	1
Ca., undiff., NOS	1	0	0	0	1
Neuroendocrine ca., NOS	0	1	0	0	1
Papillary S.C.C.	1	0	0	0	1
Transitional cell ca., NOS	1	0	0	0	1
Carcinoid tumor, NOS	0	1	0	0	1
Large cell neuroendocrine ca.	0	1	0	0	1
Fibromyxosarcoma	1	0	0	0	1
Giant cell sarcoma	0	0	0	1	1
Total	1693	631	55	41	2420

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

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

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

Carcinoma of the Larynx ----- 2420cases

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	1	1	4
T1	165	7	0	2(1)	5	4	1	0	3	1	0	188
T1a	568	0	0	1	0	0	0	0	0	2	0	571
T1b	201	1	0	0	0	0	0	0	0	1	0	203
T2	480	27	2	3(1)	28	23(2)	1	0	10	1	0	575
T3	351(2)	55	3	3	53(1)	39(1)	2	0	19(4)	1	0	526
T4	6	0	1	1	0	1(1)	0	0	0	0	0	9
T4a	103(2)	32(1)	2(1)	3	36(1)	43(3)	1	0	15(3)	1	0	236
T4b	1	0	0	0	2	0	2	0	0	0	0	5
Tis	91	0	0	0	0	0	0	0	0	1	0	92
TX	2	0	0	0	0	0	0	0	0	6	3	11
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	1970	122	8	13	124	110	7	0	47	15	4	2420

M1:24 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

Glottis 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	1	1	3
T1	54	0	0	1(1)	0	0	0	0	0	1	0	56
T1a	562	0	0	0	0	0	0	0	0	2	0	564
T1b	201	1	0	0	0	0	0	0	0	1	0	203
T2	351	5	1	0	4	3(1)	0	0	0	1	0	365
T3	249(1)	21	2	0	16	10	1	0	7(1)	0	0	306
T4	4	0	1	0	0	0	0	0	0	0	0	5
T4a	65(1)	13	2(1)	0	13	14(1)	0	0	4(1)	0	0	111
T4b	0	0	0	0	0	0	0	0	0	0	0	0
Tis	71	0	0	0	0	0	0	0	0	1	0	72
TX	2	0	0	0	0	0	0	0	0	5	1	8
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	1560	40	6	1	33	27	1	0	11	12	2	1693

M1:8 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

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	98	7	0	1	5	4	1	0	3	0	0	119
T1a	3	0	0	1	0	0	0	0	0	0	0	4
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	101	20	0	3(1)	22	19(1)	1	0	10	0	0	176
T3	94(1)	32	1	3	35(1)	28(1)	1	0	12(3)	0	0	206
T4	1	0	0	1	0	1(1)	0	0	0	0	0	3
T4a	21	16(1)	0	3	22(1)	25(1)	1	0	8(2)	1	0	97
T4b	1	0	0	0	2	0	2	0	0	0	0	5
Tis	19	0	0	0	0	0	0	0	0	0	0	19
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	339	75	1	12	86	77	6	0	33	2	0	631

M1:14 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

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	4	0	0	0	0	0	0	0	0	0	0	4
T1a	1	0	0	0	0	0	0	0	0	0	0	1
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	20	2	1	0	1	0	0	0	0	0	0	24
T3	4	1	0	0	0	0	0	0	0	0	0	5
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	14(1)	1	0	0	1	2	0	0	2	0	0	20
T4b	0	0	0	0	0	0	0	0	0	0	0	0
Tis	1	0	0	0	0	0	0	0	0	0	0	1
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	4	1	0	2	2	0	0	2	0	0	55

M1:1 case. 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	9	0	0	0	0	0	0	0	0	0	0	9
T1a	2	0	0	0	0	0	0	0	0	0	0	2
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	8	0	0	0	1	1	0	0	0	0	0	10
T3	4	1	0	0	2	1	0	0	0	1	0	9
T4	1	0	0	0	0	0	0	0	0	0	0	1
T4a	3	2	0	0	0	2(1)	0	0	1	0	0	8
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	0	2	2
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	27	3	0	0	3	4	0	0	1	1	2	41

M1:1 case. 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	1112	336	26	17	1491
with	559	284	29	24	896
unknown	22	10	0	0	32
Radiotherapy					
without	493	236	24	18	771
with	1178	384	31	23	1616
unknown	22	10	0	0	32
Chemotherapy					
without	1354	355	41	31	1781
with	317	265	14	10	606
unknown	22	10	0	0	32
Total	1693	630	55	41	2419

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

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	25	10	1	3	39
B) Rad. alone	811	117	15	8	951
A) Surg. alone	446	191	22	14	673
F)(Rad.+Chem.)	250	156	10	5	421
A)B) Surg.->Rad.	50	24	3	5	82
A)F) Surg.->(Rad.+Chem.)	22	23	2	3	50
C)F) Chem. -> (Rad.+Chem.)	12	18	0	0	30
C) Chem. alone	7	12	0	0	19
C)A) Chem.->Surg.	5	13	1	0	19
B)A) Rad.->Surg.	9	6	0	0	15
F)A)(Rad.+Chem.)->Surg.	9	2	1	1	13
A)A) Surg.->Surg.	9	2	0	0	11
F)C)(Rad.+Chem.)->Chem.	3	7	0	0	10
Other	13	39	0	2	54
Unknown	22	10	0	0	32
Total	1693	630	55	41	2419

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Carcinoma of the Larynx ----- 2420cases

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	99	405	176	451	263	3	50	5	36	2	0	1491
with	3	85	160	24	117	253	6	183	0	56	9	0	896
unknown	0	3	6	3	7	10	0	3	0	0	0	0	32
Radiotherapy													
without	3	73	140	19	93	225	4	150	0	56	8	0	771
with	1	111	425	181	475	291	5	83	5	36	3	0	1616
unknown	0	3	6	3	7	10	0	3	0	0	0	0	32
Chemotherapy													
without	3	160	559	179	333	280	6	162	0	89	10	0	1781
with	1	24	6	21	235	236	3	71	5	3	1	0	606
unknown	0	3	6	3	7	10	0	3	0	0	0	0	32
Total	4	187	571	203	575	526	9	236	5	92	11	0	2419

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

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	7	1	5	10	0	9	0	4	1	0	39
B) Rad. alone	0	78	393	157	230	48	1	12	0	31	1	0	951
A) Surg. alone	3	67	130	14	75	201	4	121	0	51	7	0	673
F)(Rad.+Chem.)	1	15	4	15	196	177	1	10	2	0	0	0	421
A)B) Surg.->Rad.	0	8	20	3	12	19	0	17	0	2	1	0	82
A)F) Surg.->(Rad.+Chem.)	0	1	0	3	10	15	1	18	0	1	1	0	50
C)F) Chem. -> (Rad.+Chem.)	0	3	0	2	5	14	0	5	1	0	0	0	30
C) Chem. alone	0	1	0	0	3	8	0	7	0	0	0	0	19
C)A) Chem.->Surg.	0	1	1	0	4	3	0	10	0	0	0	0	19
B)A) Rad.->Surg.	0	2	6	0	5	1	0	1	0	0	0	0	15
F)A)(Rad.+Chem.)->Surg.	0	0	0	0	5	5	0	1	0	2	0	0	13
A)A) Surg.->Surg.	0	1	2	3	3	1	0	1	0	0	0	0	11
F)C)(Rad.+Chem.)->Chem.	0	1	0	0	3	1	1	3	1	0	0	0	10
Other	0	4	2	2	12	13	1	18	1	1	0	0	54
Unknown	0	3	6	3	7	10	0	3	0	0	0	0	32
Total	4	187	571	203	575	526	9	236	5	92	11	0	2419

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

Carcinoma of the Larynx ----- 2420cases

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	0	31	401	176	300	155	1	18	0	29	1	0	1112
with	3	25	157	24	60	144	4	92	0	43	7	0	559
unknown	0	0	6	3	5	7	0	1	0	0	0	0	22
Radiotherapy													
without	3	21	139	19	48	137	4	75	0	41	6	0	493
with	0	35	419	181	312	162	1	35	0	31	2	0	1178
unknown	0	0	6	3	5	7	0	1	0	0	0	0	22
Chemotherapy													
without	3	53	552	179	228	173	4	85	0	69	8	0	1354
with	0	3	6	21	132	126	1	25	0	3	0	0	317
unknown	0	0	6	3	5	7	0	1	0	0	0	0	22
Total	3	56	564	203	365	306	5	111	0	72	8	0	1693

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	1	7	1	3	6	0	5	0	2	0	0	25
B) Rad. alone	0	29	389	157	172	33	0	4	0	26	1	0	811
A) Surg. alone	3	19	129	14	43	125	4	65	0	38	6	0	446
F)(Rad.+Chem.)	0	0	4	15	120	103	1	7	0	0	0	0	250
A)B) Surg.->Rad.	0	4	18	3	6	6	0	10	0	2	1	0	50
A)F) Surg.->(Rad.+Chem.)	0	0	0	3	3	6	0	9	0	1	0	0	22
C)F) Chem. -> (Rad.+Chem.)	0	1	0	2	1	8	0	0	0	0	0	0	12
Other	0	2	11	5	12	12	0	10	0	3	0	0	55
Unknown	0	0	6	3	5	7	0	1	0	0	0	0	22
Total	3	56	564	203	365	306	5	111	0	72	8	0	1693

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	1	63	2	0	125	105	2	27	5	6	0	0	336
with	0	52	2	0	49	98	1	68	0	13	1	0	284
unknown	0	3	0	0	2	3	0	2	0	0	0	0	10
Radiotherapy													
without	0	46	1	0	40	78	0	55	0	15	1	0	236
with	1	69	3	0	134	125	3	40	5	4	0	0	384
unknown	0	3	0	0	2	3	0	2	0	0	0	0	10
Chemotherapy													
without	0	94	4	0	86	97	1	53	0	19	1	0	355
with	1	21	0	0	88	106	2	42	5	0	0	0	265
unknown	0	3	0	0	2	3	0	2	0	0	0	0	10
Total	1	118	4	0	176	206	3	97	5	19	1	0	630

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

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	1	3	0	3	0	2	0	0	10
A) Surg. alone	0	42	1	0	28	67	0	39	0	13	1	0	191
F)(Rad.+Chem.)	1	15	0	0	64	72	0	2	2	0	0	0	156
B) Rad. alone	0	44	2	0	45	15	1	6	0	4	0	0	117
A)B) Surg.->Rad.	0	2	1	0	5	12	0	4	0	0	0	0	24
A)F) Surg.->(Rad.+Chem.)	0	1	0	0	5	9	1	7	0	0	0	0	23
C)F) Chem. -> (Rad.+Chem.)	0	2	0	0	4	6	0	5	1	0	0	0	18
C)A) Chem.->Surg.	0	1	0	0	3	3	0	6	0	0	0	0	13
C) Chem. alone	0	1	0	0	3	3	0	5	0	0	0	0	12
Other	0	6	0	0	16	13	1	18	2	0	0	0	56
Unknown	0	3	0	0	2	3	0	2	0	0	0	0	10
Total	1	118	4	0	176	206	3	97	5	19	1	0	630

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

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	1	0	18	0	0	3	0	1	0	0	26
with	0	1	0	0	6	5	0	17	0	0	0	0	29
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiotherapy													
without	0	1	0	0	4	5	0	14	0	0	0	0	24
with	0	3	1	0	20	0	0	6	0	1	0	0	31
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemotherapy													
without	0	4	1	0	13	5	0	17	0	1	0	0	41
with	0	0	0	0	11	0	0	3	0	0	0	0	14
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	4	1	0	24	5	0	20	0	1	0	0	55

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	1	0	0	3	5	0	13	0	0	0	0	22
B) Rad. alone	0	3	1	0	8	0	0	2	0	1	0	0	15
F)(Rad.+Chem.)	0	0	0	0	9	0	0	1	0	0	0	0	10
Other	0	0	0	0	4	0	0	4	0	0	0	0	8
Total	0	4	1	0	24	5	0	20	0	1	0	0	55

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	2	1	0	8	3	0	2	0	0	1	0	17
with	0	7	1	0	2	6	1	6	0	0	1	0	24
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiotherapy													
without	0	5	0	0	1	5	0	6	0	0	1	0	18
with	0	4	2	0	9	4	1	2	0	0	1	0	23
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemotherapy													
without	0	9	2	0	6	5	1	7	0	0	1	0	31
with	0	0	0	0	4	4	0	1	0	0	1	0	10
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	9	2	0	10	9	1	8	0	0	2	0	41

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
No treatment	0	0	0	0	0	1	0	1	0	0	1	0	3
A) Surg. alone	0	5	0	0	1	4	0	4	0	0	0	0	14
B) Rad. alone	0	2	1	0	5	0	0	0	0	0	0	0	8
A)B) Surg.->Rad.	0	2	1	0	0	1	0	1	0	0	0	0	5
F)(Rad.+Chem.)	0	0	0	0	3	2	0	0	0	0	0	0	5
A)F) Surg.->(Rad.+Chem.)	0	0	0	0	1	0	0	1	0	0	1	0	3
Other	0	0	0	0	0	1	1	1	0	0	0	0	3
Total	0	9	2	0	10	9	1	8	0	0	2	0	41

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	1113	336	26	17	1492
G5 Total laryngectomy	243	171	26	13	453
G2 Transoral resection	227	39	2	4	272
G1 Endoscopic resection	28	20	0	1	49
G3 Partial laryngectomy	25	8	1	0	34
Others	34	44	0	6	84
V9 Unknown	23	12	0	0	35
Total	1693	630	55	41	2419

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	1	100	404	176	451	263	3	51	5	36	2	0	1492
G5 Total laryngectomy	0	5	3	1	49	222	5	167	0	0	1	0	453
G2 Transoral resection	2	47	134	18	30	3	0	0	0	34	4	0	272
G1 Endoscopic resection	1	14	8	2	12	1	0	0	0	9	2	0	49
V9 Unknown	0	4	6	3	7	11	0	4	0	0	0	0	35
G3 Partial laryngectomy	0	2	5	2	14	8	1	1	0	1	0	0	34
Others	0	15	11	1	12	18	0	13	0	12	2	0	84
V9 Unknown	0	4	6	3	7	11	0	4	0	0	0	0	35
Total	4	187	571	203	575	526	9	236	5	92	11	0	2419

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	31	400	176	300	155	1	19	0	30	1	0	1113
G5	Total laryngectomy	0	1	3	1	18	128	3	89	0	0	0	0	243
F2/G2	Transoral resection	2	17	134	18	24	3	0	0	0	31	3	0	232
G1	Endoscopic resection	1	3	8	2	8	0	0	0	0	4	2	0	28
G3	Partial laryngectomy	0	1	4	2	7	8	1	1	0	1	0	0	25
G9	Laryngectomy, other type	0	2	9	1	2	1	0	0	0	3	1	0	19
G4	Subtotal laryngectomy	0	0	0	0	1	3	0	0	0	0	0	0	4
F5	Total pharyngolaryngectomy	0	0	0	0	0	0	0	0	0	2	0	0	2
F6	Total pharyngolaryngo-esophagectomy	0	0	0	0	0	0	0	1	0	0	0	0	1
H2	Superficial parotidectomy	0	0	0	0	0	0	0	0	0	0	1	0	1
X9	Others	0	0	0	0	0	1	0	0	0	1	0	0	2
V9	Unknown	0	1	6	3	5	7	0	1	0	0	0	0	23
Total		3	56	564	203	365	306	5	111	0	72	8	0	1693

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	1	64	2	0	125	105	2	27	5	5	0	0	336
G5	Total laryngectomy	0	4	0	0	26	84	1	56	0	0	0	0	171
F2/G2	Transoral resection	0	32	1	0	8	0	0	0	0	4	1	0	46
F1/G1	Endoscopic resection	0	11	0	0	4	1	0	0	0	8	0	0	20
F5	Total pharyngolaryngectomy	0	0	0	0	1	6	0	6	0	0	0	0	13
G3	Partial laryngectomy	0	1	1	0	6	0	0	0	0	0	0	0	8
F4	Total laryngectomy+Partial pharyngectomy	0	0	0	0	3	1	0	2	0	0	0	0	6
G9	Laryngectomy, other type	0	2	0	0	0	1	0	1	0	2	0	0	6
F6	Total pharyngolaryngo-esophagectomy	0	0	0	0	1	2	0	2	0	0	0	0	5
E2	Resection of the base of tongue and epiglottis	0	1	0	0	0	0	0	0	0	0	0	0	1
F7	Hypopharyngectomy + Cervical esophagec	0	0	0	0	0	1	0	0	0	0	0	0	1
X9	Others	0	0	0	0	0	1	0	0	0	0	0	0	1
V9	Unknown	0	3	0	0	2	4	0	3	0	0	0	0	12
Total		1	118	4	0	176	206	3	97	5	19	1	0	630

T-: without reported T classification

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	1	0	18	0	0	3	0	1	0	0	26
G5 Total laryngectomy	0	0	0	0	4	5	0	17	0	0	0	0	26
G2 Transoral resection	0	1	0	0	1	0	0	0	0	0	0	0	2
G3 Partial laryngectomy	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	0	4	1	0	24	5	0	20	0	1	0	0	55

T-: without reported T classification

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	2	1	0	8	3	0	2	0	0	1	0	17
G5	Total laryngectomy	0	0	0	0	1	5	1	5	0	0	1	0	13
F2/G2	Transoral resection	0	5	1	0	0	1	0	0	0	0	0	0	7
F5	Total pharyngolaryngectomy	0	0	0	0	0	0	0	1	0	0	0	0	1
G1	Endoscopic resection	0	1	0	0	0	0	0	0	0	0	0	0	1
G9	Laryngectomy, other type	0	0	0	0	1	0	0	0	0	0	0	0	1
H2	Superficial parotidectomy	0	1	0	0	0	0	0	0	0	0	0	0	1
Total		0	9	2	0	10	9	1	8	0	0	2	0	41

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	1466	422	36	23	1947
with	199	189	18	18	424
unknown	24	11	0	0	35
Radiotherapy					
without	1421	358	42	29	1850
with	244	253	12	12	521
unknown	24	11	0	0	35
Chemotherapy					
without	1515	407	48	32	2002
with	150	204	6	9	369
unknown	24	11	0	0	35
Total	1689	622	54	41	2406

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite was not reported in 14 patients.

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.	1467	424	36	23	1950
1) Total N.D.	38	60	1	2	101
2) Selective N.D.	149	129	18	12	308
3) Lymph node excision	4	1	0	0	5
8) Others	8	3	0	4	15
9) Unknown	27	14	0	0	41
Total	1693	631	55	41	2420

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.	1537	494	43	30	2104
1) Total N.D.	16	25	0	1	42
2) Selective N.D.	104	94	12	6	216
3) Lymph node excision	4	1	0	0	5
8) Others	4	3	0	4	11
9) Unknown	28	14	0	0	42
Total	1693	631	55	41	2420

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

Reconstructive Surgery by Subsite

Reconstuctive surgery	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No reconstruction	1644	565	52	37	2298
5) PM MC flap	6	17	2	1	26
B) Free jejunal flap	4	21	0	1	26
E) Free ALT flap	2	13	0	0	15
2) Local skin flap	8	0	0	0	8
4) DP flap	3	1	0	1	5
C) Free FA flap	1	0	1	0	2
D) Free RA MC flap	0	2	0	0	2
1) Skin graft	0	1	0	0	1
3) Mucosal flap	0	0	0	0	0
7) Gastric pull-up	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
I) Free nerve graft	0	0	0	0	0
Others	0	0	0	0	0
9) Unknown	25	10	0	1	36
Total	1693	631	55	41	2420

NOS: not otherwise specified.
ALT: anterolateral thigh.
OC: osteocutaneous.

RA: rectus abdominis.
FA: forearm.
DP: deltopectoral.

MC: musculocutaneous.
PM: pectoralis major.

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	488	230	24	17	759
1) X-ray (and/or electron beam)	1176	391	31	22	1620
2) Particle beam	0	0	0	0	0
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	29	10	0	2	41
Total	1693	631	55	41	2420

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	1347	351	41	31	1770
1) I.V.	252	246	12	10	520
2) I.A.	7	0	0	0	7
3) Oral	57	15	1	0	73
4) I.V.+I.A.	0	0	0	0	0
5) I.V.+Oral	6	9	1	0	16
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	24	10	0	0	34
Total	1693	631	55	41	2420

NOS: not otherwise specified

Hypopharynx(2019)

2858 Cases

Primary Site

Site	Number of patients	(%)
Posterior wall	274	(9.6)
Pyriform sinus	2010	(70.3)
Posterior wall	456	(16.0)
Hypopharynx, NOS	118	(4.1)
Total	2858	(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	0	0	0
30 - 39	3	2	5
40 - 49	62	22	84
50 - 59	281	41	322
60 - 69	863	72	935
70 - 79	1154	59	1213
80 - 89	260	20	280
90 - 99	14	3	17
100 - 109	0	0	0
110 - 119	0	0	0
Total	2639	219	2858

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	0	0
40 - 49	7	6	13
50 - 59	28	2	30
60 - 69	69	11	80
70 - 79	104	10	114
80 - 89	30	6	36
90 - 99	0	1	1
100 - 109	0	0	0
110 - 119	0	0	0
Total	238	36	274

Pyriform sinus Age Distribution by Gender

Age	Male	Female	Total
0 - 9	2	0	2
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	3	1	4
40 - 49	44	13	57
50 - 59	197	32	229
60 - 69	634	36	670
70 - 79	809	32	841
80 - 89	187	7	194
90 - 99	13	0	13
100 - 109	0	0	0
110 - 119	0	0	0
Total	1889	121	2010

Posterior wall

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	10	2	12
50 - 59	46	6	52
60 - 69	131	19	150
70 - 79	187	14	201
80 - 89	33	5	38
90 - 99	1	2	3
100 - 109	0	0	0
Total	408	48	456

Hypopharynx, NOS

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	1	1
40 - 49	1	1	2
50 - 59	10	1	11
60 - 69	29	6	35
70 - 79	54	3	57
80 - 89	10	2	12
90 - 99	0	0	0
100 - 109	0	0	0
Total	104	14	118

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 2858 Cases

Histological Distribution by Subsite

Histologic type	Postcricoid (C13.0)	Pyriform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
S.C.C., NOS	246	1776	395	102	2519
S.C.C. in situ, NOS	13	97	29	7	146
S.C.C., keratinizing, NOS	7	63	17	5	92
S.C.C., large cell, nonkerat., NOS	2	30	3	0	35
Basaloid S.C.C.	3	11	1	0	15
S.C.C., microinvasive	1	8	4	0	13
Ca., NOS	1	3	2	0	6
Adenosquamous ca.	0	5	0	0	5
Carcinosarcoma, NOS	0	1	2	2	5
Neoplasm, malig.	0	3	1	0	4
Papillary S.C.C.	0	3	0	1	4
Lymphoepithelial ca.	1	1	0	0	2
Small cell ca., NOS	0	2	0	0	2
S.C.C. in situ with quest. stromal invasion	0	2	0	0	2
Lipoma-like liposarcoma Sclerosing liposarcoma Inflammatory liposarcoma	0	0	2	0	2
Adenoid cystic ca.	0	1	0	0	1
Malig. lymphoma, NOS	0	1	0	0	1
Ca., undiff., NOS	0	1	0	0	1
Spindle cell ca., NOS	0	1	0	0	1
Transitional cell ca., NOS	0	0	0	1	1
Alveolar rhabdomyosarcoma	0	1	0	0	1
Total	274	2010	456	118	2858

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	0	0	0	0	0	0	0	0	1	0	0	1
T1	489	22	1(1)	7	35	12(1)	2	0	24(2)	2	0	594
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	415(3)	134(1)	2	16	193(3)	55(3)	3(1)	3	72(6)	2	0	895
T3	146(1)	73(3)	5	5	135(5)	94(9)	4	2(1)	66(7)	0	0	530
T4	4	4	1	0	9	4(1)	1	0	0	0	0	23
T4a	96(2)	64(4)	1	10	172(5)	106(9)	7(2)	0	113(8)	1(1)	0	570
T4b	8(1)	4	0	2	10(2)	21(7)	1	1(1)	18(5)	0	0	65
Tis	158	1	0	0	0	0	0	0	0	4	1	164
TX	4	0	0	0	0	0	0	0	0	10	1	15
T-	0	0	0	0	0	0	0	0	0	0	1	1
Total	1320	302	10	40	554	292	18	6	294	19	3	2858

M1:95 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

Postcricoid

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	40	1	0	0	1	2	0	0	2	1	0	47
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	46	9	0	2	20(1)	10	1	0	7(1)	1	0	96
T3	15	5(1)	1	2	13	15(1)	0	0	10(1)	0	0	61
T4	1	0	0	0	0	1(1)	0	0	0	0	0	2
T4a	15(1)	6	0	0	5	12(1)	0	0	10(2)	0	0	48
T4b	0	0	0	0	0	4(2)	0	0	0	0	0	4
Tis	14	0	0	0	0	0	0	0	0	0	0	14
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	131	21	1	4	39	44	1	0	29	4	0	274

M1:12 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

Pyramidal sinus

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	1	0	0	1
T1	351	18	1(1)	5	31	7(1)	2	0	18(1)	1	0	434
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	291(2)	99	1	14	152(1)	25(1)	2(1)	1	58(5)	0	0	643
T3	82(1)	51(1)	1	3	100(5)	52(1)	3	2(1)	39(4)	0	0	333
T4	2	4	1	0	7	1	0	0	0	0	0	15
T4a	63	46(3)	0	8	143(5)	70(6)	4(1)	0	90(6)	1(1)	0	425
T4b	4	1	0	1	8	10(3)	1	1(1)	10(3)	0	0	36
Tis	108	1	0	0	0	0	0	0	0	4	1	114
TX	3	0	0	0	0	0	0	0	0	5	0	8
T-	0	0	0	0	0	0	0	0	0	0	1	1
Total	904	220	4	31	441	165	12	4	216	11	2	2010

M1:55 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

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	88	2	0	1	3	2	0	0	2	0	0	98
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	66	23(1)	0	0	17(1)	19(1)	0	1	5	1	0	132
T3	44	12(1)	2	0	15	19(7)	1	0	13(1)	0	0	106
T4	1	0	0	0	2	1	1	0	0	0	0	5
T4a	16(1)	8(1)	0	2	15	15(2)	1	0	8	0	0	65
T4b	4(1)	3	0	0	2(2)	6(1)	0	0	5	0	0	20
Tis	28	0	0	0	0	0	0	0	0	0	0	28
TX	1	0	0	0	0	0	0	0	0	1	0	2
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	248	48	2	3	54	62	3	1	33	2	0	456

M1:20 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

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	10	1	0	1	0	1	0	0	2(1)	0	0	15
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	12(1)	3	1	0	4	1(1)	0	1	2	0	0	24
T3	5	5	1	0	7	8	0	0	4(1)	0	0	30
T4	0	0	0	0	0	1	0	0	0	0	0	1
T4a	2	4	1	0	9	9	2(1)	0	5	0	0	32
T4b	0	0	0	1	0	1(1)	0	0	3(2)	0	0	5
Tis	8	0	0	0	0	0	0	0	0	0	0	8
TX	0	0	0	0	0	0	0	0	0	2	1	3
T-	0	0	0	0	0	0	0	0	0	0	0	0
Total	37	13	3	2	20	21	2	1	16	2	1	118

M1:8 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	Posterioroid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
without	149	957	205	53	1364
with	121	1000	247	62	1430
unknown	4	32	3	3	42
Radiotherapy					
without	100	844	208	51	1203
with	170	1113	244	64	1591
unknown	4	32	3	3	42
Chemotherapy					
without	124	1035	241	56	1456
with	146	922	211	59	1338
unknown	4	32	3	3	42
Total	274	1989	455	118	2836

Treatment Method for the Primary Lesion by Subsite was not reported 22 patients.

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Posterioricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
Surgery					
without	188	1336	326	70	1920
with	82	633	123	44	882
unknown	4	35	5	4	48
Radiotherapy					
without	135	1021	251	56	1463
with	135	948	198	58	1339
unknown	4	35	5	4	48
Chemotherapy					
without	147	1132	277	59	1615
with	123	837	172	55	1187
unknown	4	35	5	4	48
Total	274	2004	454	118	2850

Treatment Method for the Cervical Lymph Node by Subsite was not reported in 8 patients.

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 2858 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	6	54	6	7	73
A) Surg. alone	75	670	169	32	946
F)(Rad.+Chem.)	77	489	103	28	697
B) Rad. alone	30	201	41	5	277
C)F) Chem. -> (Rad.+Chem.)	18	107	28	6	159
A)F) Surg.->(Rad.+Chem.)	13	96	20	5	134
A)B) Surg.->Rad.	11	89	20	7	127
C) Chem. alone	8	45	13	2	68
C)A) Chem.->Surg.	7	39	10	4	60
C)A)F) Chem.->Surg.->(Rad.+Chem.)	4	22	4	2	32
C)A)B) Chem.->Surg.->Rad.	0	13	6	2	21
F)C)(Rad.+Chem.)->Chem.	3	14	4	0	21
C)B) Chem.->Rad.	1	9	4	2	16
F)A)(Rad.+Chem.)->Surg.	2	10	1	0	13
C)C)Chem.->Chem.	1	10	1	0	12
A)A) Surg.->Surg.	0	7	3	0	10
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	9	0	0	9
C)C)C) Chem.->Chem.->Chem.	2	3	2	1	8
A)C) Surg. -> Chem	0	7	0	0	7
B)A) Rad.->Surg.	1	5	1	0	7
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	1	4	1	1	7
G)Surg.+Rad.+Chem.	0	6	0	1	7
A)F)C) Surg.->(Rad.+Chem.)->Chem.	1	3	2	0	6
D)(Surg.+Rad.)	1	5	0	0	6
C)F)A) Chem. -> (Rad.+Chem.)->Surg.	1	3	0	1	5
F)C)C)(Rad.+Chem.)->Chem.->Chem.	1	3	1	0	5
Other	6	34	12	9	61
Unknown	4	32	3	3	42
Total	274	1989	455	118	2836

Sequence of treatment method by Subsite was not reported in 22 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	1	171	0	0	587	289	10	230	55	15	5	1	1364
with	0	410	0	0	283	230	12	329	9	148	9	0	1430
unknown	0	8	0	0	13	7	0	11	1	1	1	0	42
Radiotherapy													
without	1	409	0	0	228	158	12	213	20	153	9	0	1203
with	0	172	0	0	642	361	10	346	44	10	5	1	1591
unknown	0	8	0	0	13	7	0	11	1	1	1	0	42
Chemotherapy													
without	1	466	0	0	354	194	12	240	20	158	10	1	1456
with	0	115	0	0	516	325	10	319	44	5	4	0	1338
unknown	0	8	0	0	13	7	0	11	1	1	1	0	42
Total	1	589	0	0	883	526	22	570	65	164	15	1	2836

T-: without reported T classification

Treatment Method for the Primary Lesion by T Classification was not reported in 22 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	1	6	0	0	18	15	5	19	6	2	1	0	73
A) Surg. alone	0	377	0	0	174	104	4	132	2	147	6	0	946
F)(Rad.+Chem.)	0	67	0	0	363	159	1	87	16	2	2	0	697
B) Rad. alone	0	65	0	0	124	35	2	31	10	7	2	1	277
C)F) Chem. -> (Rad.+Chem.)	0	16	0	0	44	48	0	45	6	0	0	0	159
A)F) Surg.->(Rad.+Chem.)	0	7	0	0	25	32	3	64	2	0	1	0	134
A)B) Surg.->Rad.	0	11	0	0	26	37	1	51	0	1	0	0	127
C) Chem. alone	0	11	0	0	14	15	1	17	7	3	0	0	68
C)A) Chem.->Surg.	0	3	0	0	11	15	1	29	1	0	0	0	60
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	4	13	1	13	1	0	0	0	32
C)A)B) Chem.->Surg.->Rad.	0	0	0	0	2	9	0	10	0	0	0	0	21
F)C)(Rad.+Chem.)->Chem.	0	0	0	0	8	4	1	5	3	0	0	0	21
C)B) Chem.->Rad.	0	1	0	0	4	2	0	8	1	0	0	0	16
F)A)(Rad.+Chem.)->Surg.	0	2	0	0	7	2	0	1	1	0	0	0	13
C)C)Chem.->Chem.	0	1	0	0	3	3	0	4	1	0	0	0	12
A)A) Surg.->Surg.	0	5	0	0	2	1	0	1	0	0	1	0	10
Other	0	9	0	0	41	25	2	42	7	1	1	0	128
Unknown	0	8	0	0	13	7	0	11	1	1	1	0	42
Total	1	589	0	0	883	526	22	570	65	164	15	1	2836

T-: without reported T classification

Sequence of Treatment Methods for the Primary Lesion by T Classification was not reported in 22 patients.

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	19	0	0	69	35	2	19	4	1	0	0	149
with	0	27	0	0	26	25	0	29	0	12	2	0	121
unknown	0	1	0	0	1	1	0	0	0	1	0	0	4
Radiotherapy													
without	0	26	0	0	19	17	1	23	0	13	1	0	100
with	0	20	0	0	76	43	1	25	4	0	1	0	170
unknown	0	1	0	0	1	1	0	0	0	1	0	0	4
Chemotherapy													
without	0	35	0	0	29	23	2	19	2	13	1	0	124
with	0	11	0	0	66	37	0	29	2	0	1	0	146
unknown	0	1	0	0	1	1	0	0	0	1	0	0	4
Total	0	47	0	0	96	61	2	48	4	14	2	0	274

T-: without reported T classification

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
F)(Rad.+Chem.)	0	5	0	0	49	15	0	7	1	0	0	0	77
A) Surg. alone	0	25	0	0	13	11	0	13	0	12	1	0	75
B) Rad. alone	0	9	0	0	11	4	1	3	2	0	0	0	30
C)F) Chem. -> (Rad.+Chem.)	0	3	0	0	4	7	0	3	1	0	0	0	18
A)F) Surg.->(Rad.+Chem.)	0	1	0	0	2	4	0	5	0	0	1	0	13
A)B) Surg.->Rad.	0	1	0	0	2	5	0	3	0	0	0	0	11
C) Chem. alone	0	1	0	0	3	2	0	2	0	0	0	0	8
C)A) Chem.->Surg.	0	0	0	0	2	1	0	4	0	0	0	0	7
No treatment	0	0	0	0	1	3	1	0	0	1	0	0	6
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	0	2	0	2	0	0	0	0	4
Other	0	1	0	0	8	6	0	6	0	0	0	0	21
Unknown	0	1	0	0	1	1	0	0	0	1	0	0	4
Total	0	47	0	0	96	61	2	48	4	14	2	0	274

T-: without reported T classification

Pyramiform 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	1	130	0	0	429	178	5	167	30	13	3	1	957
with	0	292	0	0	193	147	9	248	6	101	4	0	1000
unknown	0	7	0	0	10	4	0	10	0	0	1	0	32
Radiotherapy													
without	1	298	0	0	160	100	8	156	12	105	4	0	844
with	0	124	0	0	462	225	6	259	24	9	3	1	1113
unknown	0	7	0	0	10	4	0	10	0	0	1	0	32
Chemotherapy													
without	1	340	0	0	260	126	8	177	9	109	4	1	1035
with	0	82	0	0	362	199	6	238	27	5	3	0	922
unknown	0	7	0	0	10	4	0	10	0	0	1	0	32
Total	1	429	0	0	632	329	14	425	36	114	8	1	1989

T-: without reported T classification

Treatment Method for the Primary Lesion by T Classification was not reported in 21 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	1	6	0	0	15	11	4	13	3	1	0	0	54
A) Surg. alone	0	274	0	0	122	69	3	98	1	100	3	0	670
F)(Rad.+Chem.)	0	51	0	0	258	102	1	64	9	2	2	0	489
B) Rad. alone	0	50	0	0	96	21	0	22	4	6	1	1	201
C)F) Chem. -> (Rad.+Chem.)	0	11	0	0	34	26	0	32	4	0	0	0	107
A)F) Surg.->(Rad.+Chem.)	0	4	0	0	15	23	3	50	1	0	0	0	96
A)B) Surg.->Rad.	0	5	0	0	20	24	1	38	0	1	0	0	89
C) Chem. alone	0	9	0	0	7	7	0	13	6	3	0	0	45
C)A) Chem.->Surg.	0	0	0	0	7	8	1	22	1	0	0	0	39
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	2	9	0	10	1	0	0	0	22
F)C)(Rad.+Chem.)->Chem.	0	0	0	0	4	3	0	4	3	0	0	0	14
C)A)B) Chem.->Surg.->Rad.	0	0	0	0	2	4	0	7	0	0	0	0	13
C)C)Chem.->Chem.	0	1	0	0	2	3	0	3	1	0	0	0	10
F)A)(Rad.+Chem.)->Surg.	0	1	0	0	5	2	0	1	1	0	0	0	10
C)B) Chem.->Rad.	0	0	0	0	3	2	0	4	0	0	0	0	9
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	0	0	0	4	2	0	3	0	0	0	0	9
Other	0	10	0	0	26	9	1	31	1	1	1	0	80
Unknown	0	7	0	0	10	4	0	10	0	0	1	0	32
Total	1	429	0	0	632	329	14	425	36	114	8	1	1989

T-: without reported T classification

Sequence of Treatment Methods for the Primary Lesion by T Classification was not reported in 21 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	16	0	0	79	62	3	27	17	1	0	0	205
with	0	82	0	0	51	43	2	37	3	27	2	0	247
unknown	0	0	0	0	1	1	0	1	0	0	0	0	3
Radiotherapy													
without	0	75	0	0	41	31	2	24	6	27	2	0	208
with	0	23	0	0	89	74	3	40	14	1	0	0	244
unknown	0	0	0	0	1	1	0	1	0	0	0	0	3
Chemotherapy													
without	0	82	0	0	56	33	1	32	7	28	2	0	241
with	0	16	0	0	74	72	4	32	13	0	0	0	211
unknown	0	0	0	0	1	1	0	1	0	0	0	0	3
Total	0	98	0	0	131	106	5	65	20	28	2	0	455

T-: without reported T classification

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

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	0	0	0	1	0	0	3	2	0	0	0	6
A) Surg. alone	0	70	0	0	33	20	0	17	1	27	1	0	169
F)(Rad.+Chem.)	0	8	0	0	49	33	0	8	5	0	0	0	103
B) Rad. alone	0	6	0	0	16	8	1	5	4	1	0	0	41
C)F) Chem. -> (Rad.+Chem.)	0	1	0	0	6	14	0	6	1	0	0	0	28
A)B) Surg.->Rad.	0	5	0	0	4	4	0	7	0	0	0	0	20
A)F) Surg.->(Rad.+Chem.)	0	1	0	0	7	5	0	6	1	0	0	0	20
C) Chem. alone	0	1	0	0	3	5	1	2	1	0	0	0	13
C)A) Chem.->Surg.	0	3	0	0	2	4	0	1	0	0	0	0	10
C)A)B) Chem.->Surg.->Rad.	0	0	0	0	0	4	0	2	0	0	0	0	6
Other	0	3	0	0	10	9	3	8	5	0	1	0	39
Total	0	98	0	0	131	106	5	65	20	28	2	0	455

T-: without reported T classification

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

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	6	0	0	10	14	0	17	4	0	2	0	53
with	0	9	0	0	13	15	1	15	0	8	1	0	62
unknown	0	0	0	0	1	1	0	0	1	0	0	0	3
Radiotherapy													
without	0	10	0	0	8	10	1	10	2	8	2	0	51
with	0	5	0	0	15	19	0	22	2	0	1	0	64
unknown	0	0	0	0	1	1	0	0	1	0	0	0	3
Chemotherapy													
without	0	9	0	0	9	12	1	12	2	8	3	0	56
with	0	6	0	0	14	17	0	20	2	0	0	0	59
unknown	0	0	0	0	1	1	0	0	1	0	0	0	3
Total	0	15	0	0	24	30	1	32	5	8	3	0	118

NOS: not otherwise specified.

T-: without reported T classification

Hypopharynx, NOS

Sequence of Treatment Methods for the Primary Lesion by T Classification

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	0	0	0	1	1	0	3	1	0	1	0	7
A) Surg. alone	0	8	0	0	6	4	1	4	0	8	1	0	32
F)(Rad.+Chem.)	0	3	0	0	7	9	0	8	1	0	0	0	28
A)B) Surg.->Rad.	0	0	0	0	0	4	0	3	0	0	0	0	7
C)F) Chem. -> (Rad.+Chem.)	0	1	0	0	0	1	0	4	0	0	0	0	6
A)F) Surg.->(Rad.+Chem.)	0	1	0	0	1	0	0	3	0	0	0	0	5
B) Rad. alone	0	0	0	0	1	2	0	1	0	0	1	0	5
C)A) Chem.->Surg.	0	0	0	0	0	2	0	2	0	0	0	0	4
Other	0	2	0	0	8	7	0	4	3	0	0	0	24
Total	0	15	0	0	24	30	1	32	5	8	3	0	118

NOS: not otherwise specified.

T-: without reported T classification

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	149	977	206	54	1386
F5	Total pharyngolaryngectomy	31	275	58	8	372
F1/G1	Endoscopic resection	30	258	59	14	364
F2	Transoral resection	16	207	71	4	298
F6	Total pharyngolaryngo-esophagectomy	23	137	37	21	218
F4	Total laryngectomy+Partial pharyngectomy	7	33	1	0	41
F3	Partial hypopharyngectomy	1	30	7	2	40
F7	Hypopharyngectomy + Cervical esophagec	5	16	5	1	27
	Others	7	36	7	8	58
V9	Unknown	5	38	5	6	54
Total		274	2010	456	118	2858

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	1	176	0	0	598	294	11	230	55	15	5	1	1386
F5	Total pharyngolaryngectomy	0	6	0	0	47	114	4	195	5	0	1	0	372
F1/G1	Endoscopic resection	0	217	0	0	63	4	1	2	1	73	3	0	364
F2	Transoral resection	0	151	0	0	67	12	0	0	0	66	2	0	298
F6	Total pharyngolaryngo-esophagectomy	0	7	0	0	39	66	5	95	3	1	2	0	218
F4	Total laryngectomy+Partial pharyngectomy	0	2	0	0	17	10	1	11	0	0	0	0	41
F3	Partial hypopharyngectomy	0	10	0	0	24	5	0	1	0	0	0	0	40
F7	Hypopharyngectomy + Cervical esophagec	0	0	0	0	2	9	1	14	0	1	0	0	27
	Others	0	16	0	0	18	6	0	10	0	7	1	0	58
V9	Unknown	0	9	0	0	20	10	0	12	1	1	1	0	54
Total		1	594	0	0	895	530	23	570	65	164	15	1	2858

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	19	0	0	69	35	2	19	4	1	0	0	149
F5	Total pharyngolaryngectomy	0	3	0	0	4	10	0	14	0	0	0	0	31
F1/G1	Endoscopic resection	0	14	0	0	4	1	0	2	0	8	0	0	26
F6	Total pharyngolaryngo-esophagectomy	0	1	0	0	4	9	0	8	0	0	1	0	23
F2/G2	Transoral resection	0	8	0	0	4	2	0	0	0	4	1	0	22
F4	Total laryngectomy+Partial pharyngectomy	0	1	0	0	5	1	0	0	0	0	0	0	7
F7	Hypopharyngectomy + Cervical esophagec	0	0	0	0	0	2	0	3	0	0	0	0	5
G5	Total laryngectomy	0	0	0	0	2	0	0	2	0	0	0	0	4
F3	Partial hypopharyngectomy	0	0	0	0	1	0	0	0	0	0	0	0	1
F9	Others	0	0	0	0	1	0	0	0	0	0	0	0	1
V9	Unknown	0	1	0	0	2	1	0	0	0	1	0	0	5
Total		0	47	0	0	96	61	2	48	4	14	2	0	274

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	1	135	0	0	438	183	6	167	30	13	3	1	977
F5	Total pharyngolaryngectomy	0	2	0	0	31	75	3	159	4	0	1	0	275
F1/G1	Endoscopic resection	0	164	0	0	44	2	1	0	0	48	2	0	261
F2/G2	Transoral resection	0	107	0	0	51	7	0	0	0	49	0	0	214
F6	Total pharyngolaryngo-esophagectomy	0	3	0	0	24	40	3	64	2	1	0	0	137
F4	Total laryngectomy+Partial pharyngectomy	0	0	0	0	12	9	1	11	0	0	0	0	33
F3	Partial hypopharyngectomy	0	8	0	0	18	3	0	1	0	0	0	0	30
F7	Hypopharyngectomy + Cervical esophagec	0	0	0	0	2	3	1	9	0	1	0	0	16
G5	Total laryngectomy	0	1	0	0	3	3	0	1	0	0	1	0	9
E2	Resection of the base of tongue and epiglottis	0	0	0	0	1	0	0	0	0	1	0	0	2
C4	Resection of the buccal mucosa	0	0	0	0	1	0	0	0	0	0	0	0	1
E9	Resection of the oropharynx, other type	0	0	0	0	0	1	0	0	0	0	0	0	1
G9	Laryngectomy, other type	0	0	0	0	1	0	0	0	0	0	0	0	1
	+Others	0	6	0	0	3	2	0	3	0	1	0	0	15
V9	Unknown	0	8	0	0	14	5	0	10	0	0	1	0	38
Total		1	434	0	0	643	333	15	425	36	114	8	1	2010

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	16	0	0	80	62	3	27	17	1	0	0	206
F2/G2	Transoral resection	0	39	0	0	14	2	0	0	0	16	1	0	72
F1/G1	Endoscopic resection	0	33	0	0	12	1	0	0	1	11	1	0	59
F5	Total pharyngolaryngectomy	0	1	0	0	12	24	1	19	1	0	0	0	58
F6	Total pharyngolaryngo-esophagectomy	0	3	0	0	7	11	1	14	1	0	0	0	37
F3	Partial hypopharyngectomy	0	2	0	0	4	1	0	0	0	0	0	0	7
F7	Hypopharyngectomy + Cervical esophagec	0	0	0	0	0	3	0	2	0	0	0	0	5
G5	Total laryngectomy	0	0	0	0	1	0	0	1	0	0	0	0	2
F4	Total laryngectomy+Partial pharyngectomy	0	1	0	0	0	0	0	0	0	0	0	0	1
	+ Others	0	3	0	0	0	0	0	1	0	0	0	0	4
V9	Unknown	0	0	0	0	2	2	0	1	0	0	0	0	5
Total		0	98	0	0	132	106	5	65	20	28	2	0	456

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	6	0	0	11	14	0	17	4	0	2	0	54
F6	Total pharyngolaryngo-esophagectomy	0	0	0	0	4	6	1	9	0	0	1	0	21
F1	Endoscopic resection	0	6	0	0	3	0	0	0	0	5	0	0	14
F5	Total pharyngolaryngectomy	0	0	0	0	0	5	0	3	0	0	0	0	8
F2/G2	Transoral resection	0	2	0	0	1	1	0	0	0	3	0	0	7
F3	Partial hypopharyngectomy	0	0	0	0	1	1	0	0	0	0	0	0	2
C9	Resection of oral cavity, NOS	0	0	0	0	1	0	0	0	0	0	0	0	1
F7	Hypopharyngectomy + Cervical esophagec	0	0	0	0	0	1	0	0	0	0	0	0	1
G5	Total laryngectomy	0	0	0	0	0	0	0	1	0	0	0	0	1
G9	Laryngectomy, other type	0	1	0	0	0	0	0	0	0	0	0	0	1
	+ Others	0	0	0	0	1	0	0	1	0	0	0	0	2
V9	Unknown	0	0	0	0	2	2	0	1	1	0	0	0	6
Total		0	15	0	0	24	30	1	32	5	8	3	0	118

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.	187	1343	326	71	1927
1) Total N.D.	20	188	36	14	258
2) Selective N.D.	61	437	87	22	607
3) Lymph node excision	0	0	0	1	1
8) Others	0	5	1	5	11
9) Unknown	6	37	6	5	54
Total	274	2010	456	118	2858

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.	202	1534	345	79	2160
1) Total N.D.	13	75	18	6	112
2) Selective N.D.	52	359	86	22	519
3) Lymph node excision	0	0	0	0	0
8) Others	0	6	1	6	13
9) Unknown	7	36	6	5	54
Total	274	2010	456	118	2858

NOS: not otherwise specified.

N.D.: neck dissection.

Reconstructive Surgery by Subsite

Reconststructive surgery	Postericoid (C13.0)	Pyriform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No reconstruction	201	1501	342	81	2125
B) Free jejunal flap	49	378	94	27	548
E) Free ALT flap	7	28	2	0	37
7) Gastric pull-up	4	16	7	2	29
5) PM MC flap	3	18	2	0	23
C) Free FA flap	2	13	2	1	18
2) Local skin flap	0	5	0	0	5
4) DP flap	1	3	0	0	4
1) Skin graft	0	2	1	0	3
3) Mucosal flap	0	0	0	1	1
D) Free RA MC flap	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
I) Free nerve graft	0	0	0	0	0
Others	1	8	1	0	10
9) Unknown	6	37	5	5	53
Total	274	2009	456	117	2856

RA: rectus abdominis. MC: musculocutaneous. ALT: anterolateral thigh. FA: forearm.

PM: pectoralis major. OC: osteocutaneous. DP: deltopectoral.

NOS: not otherwise specified.

Reconstructive Surgery by Subsite was not reported in 2 patients.

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	99	828	200	50	1177
1) X-ray (and/or electron beam)	171	1146	252	64	1633
2) Particle beam	0	1	0	0	1
3) B.T.	0	0	0	0	0
4) X-ray + Particle beam	0	1	0	0	1
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	4	34	4	4	46
Total	274	2010	456	118	2858

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	124	1027	240	57	1448
1) I.V.	140	918	202	56	1316
2) I.A.	1	0	0	0	1
3) Oral	4	20	8	1	33
4) I.V.+I.A.	0	1	0	0	1
5) I.V.+Oral	1	11	1	1	14
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	4	33	5	3	45
Total	274	2010	456	118	2858

NOS: not otherwise specified.

Oropharynx(2019)

2322 Cases

Primary Site

Site	Number of patients	(%)
Superior wall	242	(10.4)
Lateral wall	1323	(57.0)
Posterior wall	170	(7.3)
Anterior wall	527	(22.7)
Oropharynx, NOS	60	(2.6)
Total	2322	(100)

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	1	1
30 - 39	17	9	26
40 - 49	125	50	175
50 - 59	303	65	368
60 - 69	619	110	729
70 - 79	665	149	814
80 - 89	156	37	193
90 - 99	10	4	14
100 - 109	0	0	0
110 - 119	1	0	1
Total	1897	425	2322

p16 status

	Total
p16 positive	1113
p16 negative	893
p16 unknown	270
not reported	46
Total	2322

Oropharynx p16 positive(2019)

1113 Cases

Primary Site

Site	Number of patients	(%)
Superior wall	31	(2.8)
Lateral wall	838	(75.3)
Posterior wall	15	(1.3)
Anterior wall	211	(19.0)
Oropharynx, NOS	18	(1.6)
Total	1113	(100)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	14	3	17
40 - 49	92	27	119
50 - 59	192	34	226
60 - 69	271	66	337
70 - 79	245	83	328
80 - 89	64	13	77
90 - 99	7	2	9
100 - 109	0	0	0
Total	885	228	1113

Carcinoma of the Oropharynx p16 positive ----- 1113Cases

Histological Distribution by Subsite

Histologic type	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
S.C.C., NOS	27	793	15	198	16	1049
S.C.C., large cell, nonkerat., NOS	0	19	0	3	0	22
S.C.C., keratinizing, NOS	2	13	0	4	1	20
S.C.C. in situ, NOS	0	3	0	2	0	5
S.C.C., microinvasive	0	2	0	2	0	4
Basaloid S.C.C.	0	2	0	0	0	2
Lymphoepithelial ca.	0	2	0	0	0	2
Papillary S.C.C.	0	0	0	1	1	2
Adenosquamous ca.	0	1	0	0	0	1
Ca., NOS	0	1	0	0	0	1
S.C.C., small cell, nonkerat.	0	1	0	0	0	1
Myoepithelial ca.	1	0	0	0	0	1
Ca., undiff., NOS	0	1	0	0	0	1
Polymorphous low grade adenocarcinoma	1	0	0	0	0	1
Spindle cell ca., NOS	0	0	0	1	0	1
Total	31	838	15	211	18	1113

NOS: not otherwise specified.
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	0	11	1	0	0	0	2	0	0	0	0	14
T1	53	154	20(2)	0	0	0	7	0	0	0	0	234
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	99	331(5)	70(3)	0	0	0	15	0	1	0	0	516
T3	26	85	33(2)	0	1	0	10(2)	0	0	1	1	157
T4	22	80(2)	73(7)	0	0	0	10(4)	0	0	0	0	185
T4a	0	1	1	0	0	0	0	0	0	0	0	2
T4b	0	0	0	0	0	0	0	0	0	0	0	0
Tis	1	1	1	0	0	0	0	0	0	0	0	3
TX	0	0	0	0	0	0	0	0	0	0	0	0
T-	0	1	0	0	0	0	0	0	0	0	1	2
Total	201	664	199	0	1	0	44	0	1	1	2	1113

M1:27 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	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
without	18	540	11	153	13	735
with	13	292	4	55	5	369
unknown	0	0	0	0	0	0
Radiotherapy						
without	13	216	4	46	3	282
with	18	616	11	162	15	822
unknown	0	0	0	0	0	0
Chemotherapy						
without	20	313	5	69	7	414
with	11	519	10	139	11	690
unknown	0	0	0	0	0	0
Total	31	832	15	208	18	1104

Treatment Method for the Primary Lesion by Subsite was not reported in 9 patients.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
without	25	572	14	161	14	786
with	6	266	0	50	4	326
unknown	0	0	0	0	0	0
Radiotherapy						
without	16	254	5	60	5	340
with	15	584	9	151	13	772
unknown	0	0	0	0	0	0
Chemotherapy						
without	20	342	5	84	8	459
with	11	496	9	127	10	653
unknown	0	0	0	0	0	0
Total	31	838	14	211	18	1112

Treatment Method for the Cervical Lymph Nodes by Subsite was not reported in a patient.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
No treatment	2	11	0	4	0	17
F)(Rad.+Chem.)	5	344	7	97	7	460
A) Surg. alone	11	151	3	36	1	202
B) Rad. alone	6	95	1	23	5	130
C)F) Chem. -> (Rad.+Chem.)	3	46	2	21	2	74
A)B) Surg.->Rad.	1	49	0	5	0	55
A)F) Surg.->(Rad.+Chem.)	0	36	0	4	0	40
C)A) Chem.->Surg.	0	30	0	3	0	33
C) Chem. alone	0	13	1	1	0	15
F)C)(Rad.+Chem.)->Chem.	0	10	0	1	0	11
C)B) Chem.->Rad.	0	6	0	2	0	8
C)A)B) Chem.->Surg.->Rad.	1	3	0	2	0	6
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	2	0	3	0	5
Other	2	36	1	6	3	48
Total	31	832	15	208	18	1104

Sequence of Treatment Method for the Primary Lesion by Subsite was not reported in 9 patients.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Oropharynx p16 positive ----- 1113Cases

Surgical Methods for the Primary Lesion by Subsite

Surgical method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
X0 No surgery	18	545	11	156	13	743
E3 Unilateral resection of the lateral wall of the oropharynx	0	227	0	3	1	231
E1 Resection of the root of tongue	0	1	0	38	2	41
E9 Resection of the oropharynx, other type	0	28	0	7	1	36
E4 Unilateral resection of the lateral wall of the oropharynx and soft	2	18	0	0	0	20
E8 Resection of the soft palate	9	2	0	0	0	11
E5 Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	0	9	0	1	0	10
F2 Transoral resection	0	3	0	1	0	4
Others	2	5	4	5	0	16
V9 Unknown	0	0	0	0	1	1
Total	31	838	15	211	18	1113

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconststructive surgery	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No reconstruction	28	793	14	201	17	1053
E) Free ALT flap	0	32	0	4	0	36
D) Free RA MC flap	0	4	0	5	0	9
C) Free FA flap	1	4	0	0	0	5
5) PM MC flap	1	3	0	0	0	4
1) Skin graft	0	1	0	0	0	1
2) Local skin flap	1	0	0	0	0	1
B) Free jejunal flap	0	0	1	0	0	1
3) Mucosal flap	0	0	0	0	0	0
4) DP flap	0	0	0	0	0	0
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
I) Free nerve graft	0	0	0	0	0	0
Others	0	0	0	1	0	1
9) Unknown	0	1	0	0	1	2
Total	31	838	15	211	18	1113

NOS: not otherwise specified.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	25	573	14	161	14	787
1) Total N.D.	0	74	0	12	3	89
2) Selective N.D.	5	185	1	36	0	227
3) Lymph node excision	0	4	0	2	0	6
8) Others	1	1	0	0	0	2
9) Unknown	0	1	0	0	1	2
Total	31	838	15	211	18	1113

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	27	818	15	197	17	1074
1) Total N.D.	0	3	0	1	0	4
2) Selective N.D.	3	15	0	13	0	31
3) Lymph node excision	0	0	0	0	0	0
8) Others	1	1	0	0	0	2
9) Unknown	0	1	0	0	1	2
Total	31	838	15	211	18	1113

NOS: not otherwise specified.

N.D.: neck dissection.

Radiotherapy by Subsite

Type of radiotherapy	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No radiotherapy	13	206	4	45	3	271
1) X-ray (and/or electron beam)	18	627	10	166	15	836
2) Particle beam	0	2	1	0	0	3
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	0	0	0
9) Unknown	0	3	0	0	0	3
Total	31	838	15	211	18	1113

NOS: not otherwise specified.

B.T.: brachytherapy.

Chemotherapy by Subsite

Route of administration	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No chemotherapy	19	296	4	69	7	395
1) I.V.	11	529	11	135	10	696
2) I.A.	0	2	0	4	0	6
3) Oral	1	5	0	0	1	7
4) I.V.+I.A.	0	1	0	1	0	2
5) I.V.+Oral	0	5	0	2	0	7
6) I.A.+Oral	0	0	0	0	0	0
7) I.V.+I.A.+Oral	0	0	0	0	0	0
8) Others	0	0	0	0	0	0
9) Unknown	0	0	0	0	0	0
Total	31	838	15	211	18	1113

I.V.: intravenous.

I.A.: intraarterial.

NOS: not otherwise specified.

Oropharynx p16 negative and unknown
(2019)

1163 Cases

Primary Site

Site	Number of patients	(%)
Superior wall	205	(17.6)
Lateral wall	462	(39.8)
Posterior wall	149	(12.8)
Anterior wall	305	(26.2)
Oropharynx, NOS	42	(3.6)
Total	1163	(100)

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	1	1
30 - 39	3	5	8
40 - 49	32	21	53
50 - 59	105	31	136
60 - 69	336	42	378
70 - 79	410	59	469
80 - 89	88	23	111
90 - 99	3	2	5
100 - 109	0	0	0
110 - 119	1	0	1
Total	979	184	1163

Histological Distribution by Subsite

Histologic type	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
S.C.C., NOS	162	415	117	249	37	980
S.C.C. in situ, NOS	9	11	20	9	2	51
S.C.C., keratinizing, NOS	8	13	2	13	1	37
Adenoid cystic ca.	6	1	0	9	2	18
S.C.C., large cell, nonkerat., NOS	3	7	2	3	0	15
Mucoepidermoid ca.	4	0	0	6	0	10
S.C.C., microinvasive	1	2	2	4	0	9
Adenocarcinoma, NOS	2	1	1	4	0	8
Ca., NOS	1	3	0	1	0	5
Malig. lymphoma, NOS	0	1	1	2	0	4
Small cell ca., NOS	0	1	0	2	0	3
Basaloid S.C.C.	1	0	1	0	0	2
Salivary duct ca.	1	1	0	0	0	2
S.C.C., small cell, nonkerat.	0	1	0	1	0	2
Myoepithelial ca.	2	0	0	0	0	2
Clear cell ca., NOS	1	1	0	0	0	2
Ca. ex pleomorphic adenoma	1	0	0	0	0	1
Neoplasm, malig.	1	0	0	0	0	1
Polymorphous low grade adenocarcinoma	0	0	0	1	0	1
Spindle cell ca., NOS	0	0	1	0	0	1
S.C.C. in situ with quest. stromal invasion	0	1	0	0	0	1
Papillary S.C.C.	0	0	1	0	0	1
Transitional cell ca., NOS	0	1	0	0	0	1
S.C.C., spindle cell	1	0	0	0	0	1
Malig. lymphoma, large B-cell, diffuse, NOS	0	1	0	0	0	1
Anaplastic large cell lymphoma, ALK negative	0	1	0	0	0	1
Papillary S.C.C., non-invasive	1	0	0	0	0	1
Malig. teratoma, undiff.	0	0	1	0	0	1
Plasmacytoma, extramedullary	0	0	0	1	0	1
Total	205	462	149	305	42	1163

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	1	0	0	0	1	0	0	0	0	0	0	2
T1	222(1)	19	1	3	23(1)	4(2)	2	0	17(1)	0	0	291
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	163	53(1)	4	4	79(2)	36(1)	2	2	30(1)	1	0	374
T3	52(2)	28	2	2	36(3)	41(1)	4(2)	0	14(5)	0	0	179
T4	1	9	3	0	1(1)	5	3	0	3	1	0	26
T4a	42(1)	20	0	3	49(1)	31(4)	4(1)	0	23	0	0	172
T4b	7	6	0	0	8	13	0	0	13(4)	0	0	47
Tis	51	0	0	0	0	0	0	0	0	2	0	53
TX	2	1	0	1	0	1	1(1)	0	0	6	3	15
T-	0	0	0	0	0	0	0	0	0	0	4	4
Total	541	136	10	13	197	131	16	2	100	10	7	1163

S

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

Treatment Method for the Primary Lesion by Subsite

Treatment Method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
without	72	274	56	172	31	605
with	133	183	92	130	11	549
unknown	0	1	0	0	0	1
Radiotherapy						
without	135	180	86	126	17	544
with	70	277	62	176	25	610
unknown	0	1	0	0	0	1
Chemotherapy						
without	150	232	100	143	17	642
with	55	225	48	159	25	512
unknown	0	1	0	0	0	1
Total	205	458	148	302	42	1155

Treatment Method for the Primary Lesion by Subsite was not reported in 8 patients.

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
without	178	347	125	211	39	900
with	26	112	21	91	3	253
unknown	0	2	0	0	0	2
Radiotherapy						
without	153	214	92	151	20	630
with	51	245	54	151	22	523
unknown	0	2	0	0	0	2
Chemotherapy						
without	162	255	105	162	18	702
with	42	204	41	140	24	451
unknown	0	2	0	0	0	2
Total	204	461	146	302	42	1155

Treatment Method for the Cervical Lymph Nodes by Subsite was not reported in 8 patients.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
No treatment	5	19	6	5	3	38
A) Surg. alone	119	129	71	92	8	419
F)(Rad.+Chem.)	29	133	22	84	14	282
B) Rad. alone	24	67	15	33	4	143
C)F) Chem. -> (Rad.+Chem.)	8	20	5	28	2	63
C) Chem. alone	3	15	3	14	5	40
A)F) Surg.->(Rad.+Chem.)	4	13	6	8	1	32
A)B) Surg.->Rad.	1	13	5	10	2	31
C)A) Chem.->Surg.	4	11	2	9	0	26
C)A)F) Chem.->Surg.->(Rad.+Chem.)	1	2	0	4	0	7
C)B) Chem.->Rad.	1	2	1	2	1	7
F)C)(Rad.+Chem.)->Chem.	0	5	0	1	0	6
A)A) Surg.->Surg.	0	2	1	2	0	5
A)C) Surg. -> Chem	2	1	1	1	0	5
Other	4	26	10	9	2	51
Total	205	458	148	302	42	1155

Sequence of Treatment Method for the Primary Lesion by Subsite was not reported in 8 patients.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Oropharynx p16 negative and unknown ----- 1163Cases
Surgical Methods for the Primary Lesion by Subsite

Surgical method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
X0 No surgery	72	278	57	174	31	612
E3 Unilateral resection of the lateral wall of the oropharynx	2	113	2	2	2	121
E8 Resection of the soft palate	76	10	0	0	0	86
E9 Resection of the oropharynx, other type	8	23	16	23	5	75
E6 Resection of the posterior wall	1	3	52	0	1	57
E1 Resection of the root of tongue	0	2	0	52	0	54
E7 Resection of the uvula	26	0	0	0	1	27
E4 Unilateral resection of the lateral wall of the oropharynx and soft	10	11	0	0	0	21
F2 Transoral resection	4	2	11	4	0	21
E2 Resection of the base of tongue and epiglottis	0	1	0	13	0	14
E5 Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	1	10	0	2	0	13
G5 Total laryngectomy	1	0	0	9	0	10
A6 Total glossectomy	0	1	0	8	0	9
A5 Subtotal glossectomy	0	1	0	5	0	6
F6 Total pharyngolaryngo-esophagectomy	0	1	2	2	1	6
G2 Transoral resection	1	0	2	2	1	6
F1 Endoscopic resection	0	0	3	2	0	5
Others	3	5	4	7	0	19
V9 Unknown	0	1	0	0	0	1
Total	205	462	149	305	42	1163

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconststructive surgery	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No reconstruction	183	404	139	241	41	1008
E) Free ALT flap	3	28	2	19	0	52
D) Free RA MC flap	4	13	0	24	0	41
B) Free jejunal flap	0	2	7	7	1	17
5) PM MC flap	1	5	1	5	0	12
C) Free FA flap	3	6	0	3	0	12
3) Mucosal flap	4	1	0	0	0	5
1) Skin graft	1	0	0	2	0	3
2) Local skin flap	3	0	0	0	0	3
F) Free scapular OC flap	1	0	0	1	0	2
7) Gastric pull-up	0	0	0	1	0	1
G) Free fibular OC flap	0	0	0	1	0	1
4) DP flap	0	0	0	0	0	0
I) Free nerve graft	0	0	0	0	0	0
Others	2	2	0	0	0	4
9) Unknown	0	1	0	1	0	2
Total	205	462	149	305	42	1163

NOS: not otherwise specified.

Carcinoma of the Oropharynx p16 negative and unknown ----- 1163Cases

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	177	349	127	212	39	904
1) Total N.D.	8	38	7	21	0	74
2) Selective N.D.	17	72	14	71	3	177
3) Lymph node excision	0	2	0	0	0	2
8) Others	1	0	1	0	0	2
9) Unknown	2	1	0	1	0	4
Total	205	462	149	305	42	1163

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	194	445	137	261	41	1078
1) Total N.D.	1	1	5	11	0	18
2) Selective N.D.	8	15	6	32	1	62
3) Lymph node excision	0	0	0	0	0	0
8) Others	1	0	1	0	0	2
9) Unknown	1	1	0	1	0	3
Total	205	462	149	305	42	1163

NOS: not otherwise specified.

N.D.: neck dissection.

Radiotherapy by Subsite

Type of radiotherapy	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No radiotherapy	135	178	86	127	17	543
1) X-ray (and/or electron beam)	64	283	63	173	24	607
3) B.T.	4	0	0	1	0	5
2) Particle beam	1	0	0	3	0	4
4) X-ray + Particle beam	0	0	0	1	0	1
5) X-ray + B.T.	1	0	0	0	0	1
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	0	0	0
9) Unknown	0	1	0	0	1	2
Total	205	462	149	305	42	1163

NOS: not otherwise specified.

B.T.: brachytherapy.

Chemotherapy by Subsite

Route of administration	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No chemotherapy	148	225	100	139	17	629
1) I.V.	50	230	44	157	22	503
3) Oral	5	4	3	3	1	16
5) I.V.+Oral	1	1	2	3	1	8
2) I.A.	1	0	0	3	0	4
4) I.V.+I.A.	0	0	0	0	0	0
6) I.A.+Oral	0	0	0	0	0	0
7) I.V.+I.A.+Oral	0	0	0	0	0	0
8) Others	0	0	0	0	1	1
9) Unknown	0	2	0	0	0	2
Total	205	462	149	305	42	1163

I.V.: intravenous.

I.A.: intraarterial.

NOS: not otherwise specified.

Nasopharynx(2019)

369 Cases

Primary Site

Site	Number of patients	(%)
Posterosuperior wall	145	(39.3)
Lateral wall	171	(46.3)
Inferior wall	4	(1.1)
Nasopharynx, NOS	49	(13.3)
Total	369	(100)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	3	0	3
20 - 29	7	3	10
30 - 39	13	5	18
40 - 49	49	20	69
50 - 59	51	22	73
60 - 69	73	25	99
70 - 79	61	22	83
80 - 89	7	7	14
90 - 99	1	0	1
100 - 109	0	0	0
110 - 119	0	0	0
Total	265	104	369

Carcinoma of the Nasopharynx ----- 369 Cases
Histological Distribution by Subsite

Histologic type	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
S.C.C., NOS	93	94	2	34	223
S.C.C., large cell, nonkerat., NOS	17	27	1	2	47
Lymphoepithelial ca.	17	14	0	5	36
Ca., NOS	3	9	0	3	15
S.C.C., keratinizing, NOS	2	9	1	1	13
Ca., undiff., NOS	3	6	0	1	10
S.C.C., small cell, nonkerat.	5	4	0	0	9
Adenoid cystic ca.	2	5	0	0	7
Malignant lymphoma, NOS	1	0	0	1	2
Basaloid S.C.C.	0	1	0	0	1
Mucoepidermoid ca.	0	1	0	0	1
S.C.C. in situ, NOS	0	0	0	1	1
Neoplasm, malignant	0	0	0	1	1
S.C.C., spindle cell	0	1	0	0	1
Malignant lymphoma, large B-cell, diffuse, NOS	1	0	0	0	1
Papillary adenocarcinoma, NOS	1	0	0	0	1
Total	145	171	4	49	369

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	NX	N-	Total
T1	31	45(1)	34(3)	16(5)	0	0	126
T2	17(1)	41(1)	22(3)	15(1)	0	0	95
T3	11	26(1)	22(2)	14(2)	0	0	73
T4	12(2)	19(2)	21(2)	18	0	0	70
TX	0	0	0	1	1	1	3
T-	0	0	0	0	0	2	2
Total	71	131	99	64	1	3	369

M1:26 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	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
without	135	163	3	48	349
with	5	3	1	0	9
unknown	5	4	0	1	10
Radiotherapy					
without	13	10	0	3	26
with	127	156	4	45	332
unknown	5	4	0	1	10
Chemotherapy					
without	23	21	0	7	51
with	117	145	4	41	307
unknown	5	4	0	1	10
Total	145	170	4	49	368

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	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
Surgery					
without	134	161	3	48	346
with	6	6	1	0	13
unknown	5	4	0	1	10
Radiotherapy					
without	26	29	1	8	64
with	114	138	3	40	295
unknown	5	4	0	1	10
Chemotherapy					
without	32	34	1	9	76
with	108	133	3	39	283
unknown	5	4	0	1	10
Total	145	171	4	49	369

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
No treatment	3	1	0	1	5
F)(Rad.+Chem.)	87	96	3	29	215
F)C)(Rad.+Chem.)->Chem.	14	23	0	4	41
B) Rad. alone	17	17	0	6	40
C)F) Chem. -> (Rad.+Chem.)	6	14	0	4	24
C) Chem. alone	6	5	0	2	13
A) Surg. alone	3	2	0	0	5
Other	4	8	1	2	15
Unknown	5	4	0	1	10
Total	145	170	4	49	368

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	135	164	3	48	350
Others+	4	3	1	0	8
V9 Unknown	6	4	0	1	11
Total	145	171	4	49	369

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstructive surgery	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No reconstruction	138	166	3	48	355
B) Free jejunal flap	1	0	0	0	1
E) Free ALT flap	0	0	1	0	1
8) Others	0	1	0	0	1
9) Unknown	6	4	0	1	11
Total	145	171	4	49	369

NOS: not otherwise specified.

Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	136	161	3	48	348
2) Selective N.D.	3	6	1	0	10
9) Unknown	6	4	0	1	11
Total	145	171	4	49	369

NOS: not otherwise specified.

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	137	166	3	48	354
2) Selective N.D.	2	1	1	0	4
9) Unknown	6	4	0	1	11
Total	145	171	4	49	369

NOS: not otherwise specified.

N.D.: neck dissection.

Radiotherapy by Subsite

Type of radiotherapy	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No radiotherapy	10	9	0	3	22
1) X-ray (and/or electron beam)	128	155	4	45	332
2) Particle beam	1	2	0	0	3
9) Unknown	6	5	0	1	12
Total	145	171	4	49	369

NOS: not otherwise specified.

Carcinoma of the Nasopharynx ----- 369 Cases

Chemotherapy by Subsite

Route of administration	Posterioro- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No chemotherapy	23	21	0	7	51
1) I.V.	113	144	4	40	301
5) I.V.+Oral	1	2	0	0	3
3) Oral	2	0	0	0	2
2) I.A.	0	0	0	1	1
9) Unknown	6	4	0	1	11
Total	145	171	4	49	369

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Nasal Cavity and Paranasal Sinuses
(Excluding the Maxillary Sinus)
(2019)

504 Cases

Primary Site

Site	Number of patients	(%)
Nasal cavity	316	(62.7)
Ethmoid sinus	81	(16.1)
Frontal sinus	5	(1.0)
Sphenoid sinus	20	(4.0)
Paranasal sinus, NOS	82	(16.3)
Total	504	(100)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	2	1	3
20 - 29	3	3	6
30 - 39	12	7	19
40 - 49	32	20	52
50 - 59	58	36	94
60 - 69	81	31	112
70 - 79	92	53	145
80 - 89	36	27	63
90 - 99	3	6	9
100 - 109	0	0	0
110 - 119	0	0	0
Total	320	184	504

NOS: not otherwise specified.

Carcinoma of the Nasal Cavity and Paranasal Sinuses -----504Cases

Histological Distribution by Subsite

Histologic type	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
S.C.C., NOS	94	50	4	8	27	183
Malig. melanoma, NOS	69	3	1	2	17	92
Olfactory neuroblastoma	32	2	0	0	20	54
Adenoid cystic ca.	18	3	0	3	3	27
Adenocarcinoma, NOS	13	5	0	0	2	20
S.C.C., keratinizing, NOS	9	2	0	0	3	14
S.C.C., large cell, nonkerat., NOS	8	0	0	1	1	10
Ca., NOS	6	1	0	1	2	10
Ca., undiff., NOS	2	4	0	2	0	8
S.C.C. in situ, NOS	6	0	0	0	0	6
Malig. lymphoma, NOS	6	0	0	0	0	6
Small cell ca., NOS	3	2	0	0	1	6
Carcinosarcoma, NOS	4	1	0	0	1	6
Basal cell ca., NOS	6	0	0	0	0	6
Neuroendocrine ca., NOS	5	1	0	0	0	6
Neoplasm, malig.	3	2	0	0	0	5
Alveolar rhabdomyosarcoma	3	0	0	1	0	4
Chondrosarcoma, NOS	2	0	0	1	0	3
Osteosarcoma, NOS	2	1	0	0	0	3
Malig. teratoma, undiff.	2	0	0	0	1	3
S.C.C., small cell, nonkerat.	2	0	0	0	0	2
Spindle cell ca., NOS	1	0	0	0	1	2
Epithelial-myoepithelial ca.	2	0	0	0	0	2
S.C.C., spindle cell	2	0	0	0	0	2
Malig. lymphoma, large B-cell, diffuse, NOS	2	0	0	0	0	2
Plasmacytoma, NOS	2	0	0	0	0	2
Rhabdomyosarcoma, NOS	0	2	0	0	0	2
Basaloid S.C.C.	1	0	0	0	0	1
S.C.C., microinvasive	0	0	0	0	1	1
Mucoepidermoid ca.	0	1	0	0	0	1
Ca. ex pleomorphic adenoma	0	0	0	0	1	1
Salivary duct ca.	1	0	0	0	0	1
Adenosquamous ca.	1	0	0	0	0	1
Papillary S.C.C.	1	0	0	0	0	1
Acinar cell ca.	1	0	0	0	0	1
Transitional cell ca., NOS	1	0	0	0	0	1
Large cell ca., NOS	1	0	0	0	0	1
Carcinoid tumor, NOS	0	0	0	1	0	1
Ewing sarcoma	1	0	0	0	0	1
Large cell neuroendocrine ca.	1	0	0	0	0	1
B cell lymphoma, NOS	1	0	0	0	0	1
Synovial sarcoma, spindle cell	0	1	0	0	0	1
NK/T-cell lymphoma, nasal and nasaltyp	1	0	0	0	0	1
Giant cell sarcoma	1	0	0	0	0	1
Sialoblastoma	0	0	0	0	1	1
Total	316	81	5	20	82	504

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	1(1)	0	0	0	0	0	0	0	0	0	0	1
T1	72(1)	2	0	0	0	0	0	0	1	0	0	75
T2	55	1	0	0	3(1)	0	0	0	0	0	0	59
T3	73(3)	11(1)	0	0	2	1	1	0	0	0	0	88
T4	18(1)	1(1)	1	0	1(1)	0	0	0	0	0	0	21
T4a	74(3)	4(1)	0	0	3	8(2)	0	0	0	0	0	89
T4b	97(5)	5(3)	0	1	8(1)	6(1)	0	1	1	0	0	119
Tis	5	0	0	0	0	0	0	0	0	0	0	5
TX	9	0	0	0	0	0	0	0	0	10(1)	1	20
T-	5	0	0	0	0	0	0	0	1	0	21	27
Total	409	24	1	1	17	15	1	1	3	10	22	504

M1:27 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	132	52	3	18	30	235
with	173	28	2	1	52	256
unknown	11	1	0	1	0	13
Radiotherapy						
without	124	15	2	3	37	181
with	181	65	3	16	45	310
unknown	11	1	0	1	0	13
Chemotherapy						
without	191	33	4	6	53	287
with	114	47	1	13	29	204
unknown	11	1	0	1	0	13
Total	316	81	5	20	82	504

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	283	74	4	19	78	458
with	22	5	1	0	3	31
unknown	11	1	0	1	0	13
Radiotherapy						
without	265	64	5	16	71	421
with	40	15	0	3	10	68
unknown	11	1	0	1	0	13
Chemotherapy						
without	253	64	5	15	72	409
with	52	15	0	4	9	80
unknown	11	1	0	1	0	13
Total	316	80	5	20	81	502

NOS: not otherwise specified.

Treatment Method for the Cervical Lymph Nodes by Primary Site was not reported in 2 patients.

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	10	3	0	0	3	16
A) Surg. alone	79	10	2	1	24	116
B) Rad. alone	50	13	2	5	8	78
A)B) Surg.->Rad.	47	6	0	0	16	69
F)(Rad.+Chem.)	32	19	0	7	10	68
C) Chem. alone	15	0	0	2	4	21
A)F) Surg.->(Rad.+Chem.)	11	2	0	0	4	17
C)F) Chem. -> (Rad.+Chem.)	5	6	1	0	0	12
A)C) Surg. -> Chem	7	0	0	0	4	11
C)B) Chem.->Rad.	5	6	0	0	0	11
C)A) Chem.->Surg.	7	1	0	0	0	8
F)C)(Rad.+Chem.)->Chem.	4	2	0	1	1	8
B)C) Rad.->Chem.	3	1	0	2	1	7
C)A)B) Chem.->Surg.->Rad.	4	2	0	0	1	7
F)A)(Rad.+Chem.)->Surg.	3	1	0	0	1	5
Other	23	8	0	1	5	37
Unknown	11	1	0	1	0	13
Total	316	81	5	20	82	504

NOS: not otherwise specified.

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses 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	132	52	3	18	30	235
D9 Maxillectomy, other type	80	10	1	1	11	103
D5 Endoscopic skull base surgery	25	7	0	0	32	64
D1 Partial maxillectomy	24	0	0	0	3	27
D4 Skull base surgery	7	4	1	0	0	12
D2 Total maxillectomy	3	1	0	0	1	5
D3 Extended maxillectomy	1	4	0	0	0	5
Others	32	2	0	0	5	39
V9 Unknown	12	1	0	1	0	14
Total	316	81	5	20	82	504

NOS: not otherwise specified.

Reconstructive Surgery by Subsite

Reconstructive surgery	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
0) No reconstruction	268	65	4	19	50	406
3) Mucosal flap	17	3	0	0	25	45
2) Local skin flap	9	1	0	0	1	11
D) Free RA MC flap	1	5	1	0	0	7
E) Free ALT flap	1	1	0	0	2	4
1) Skin graft	1	1	0	0	0	2
F) Free scapular OC flap	0	0	0	0	1	1
G) Free fibular OC flap	1	0	0	0	0	1
Others	7	4	0	0	2	13
9) Unknown	11	1	0	1	1	14
Total	316	81	5	20	82	504

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.	282	75	4	19	80	460
2) Selective N.D.	11	3	1	0	1	16
1) Total N.D.	7	2	0	0	1	10
3) Lymph node excision	0	0	0	0	0	0
8) Others	4	0	0	0	0	4
9) Unknown	12	1	0	1	0	14
Total	316	81	5	20	82	504

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.	294	80	4	19	81	478
2) Selective N.D.	4	0	1	0	1	6
1) Total N.D.	1	0	0	0	0	1
8) Others	5	0	0	0	0	5
9) Unknown	12	1	0	1	0	14
Total	316	81	5	20	82	504

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	113	13	2	3	37	168
1) X-ray (and/or electron beam)	140	53	3	11	38	245
2) Particle beam	50	13	0	5	6	74
3) B.T.	1	0	0	0	0	1
8) Others	1	1	0	0	1	3
9) Unknown	11	1	0	1	0	13
Total	316	81	5	20	82	504

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	186	31	4	6	52	279
1) I.V.	109	41	1	11	26	188
2) I.A.	6	6	0	0	3	15
3) Oral	3	0	0	1	1	5
4) I.V.+I.A.	0	2	0	1	0	3
7) I.V.+I.A.+Oral	1	0	0	0	0	1
9) Unknown	11	1	0	1	0	13
Total	316	81	5	20	82	504

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Maxillary Sinus (2019)

417 Cases

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	0	1
20 - 29	2	0	2
30 - 39	0	0	0
40 - 49	27	9	36
50 - 59	48	14	62
60 - 69	114	30	144
70 - 79	101	34	135
80 - 89	22	14	36
90 - 99	0	1	1
100 - 109	0	0	0
Total	315	102	417

Carcinoma of the Maxillary Sinus ----- 417 Cases

Histological Distribution by Subsite

Histologic type	Maxillary sinus	Total
S.C.C., NOS	310	(74)
S.C.C., keratinizing, NOS	18	(4.3)
Adenoid cystic ca.	15	(3.6)
Adenocarcinoma, NOS	10	(2.4)
Ca., NOS	9	(2.2)
Malig. melanoma, NOS	9	(2.2)
Ca., undiff., NOS	7	(1.7)
Spindle cell ca., NOS	6	(1.4)
S.C.C., spindle cell	4	(1)
Mucoepidermoid ca.	2	(0.5)
Malig. lymphoma, NOS	2	(0.5)
S.C.C., large cell, nonkerat., NOS	2	(0.5)
Neoplasm, malig.	2	(0.5)
Ewing sarcoma	2	(0.5)
Salivary duct ca.	1	(0.2)
Adenosquamous ca.	1	(0.2)
Small cell ca., NOS	1	(0.2)
Carcinosarcoma, NOS	1	(0.2)
S.C.C., small cell, nonkerat.	1	(0.2)
Olfactory neuroblastoma	1	(0.2)
Sarcoma, NOS	1	(0.2)
Neuroendocrine ca., NOS	1	(0.2)
Basal cell adenocarcinoma	1	(0.2)
Leiomyosarcoma, NOS	1	(0.2)
Malig. tumor, spindle cell type	1	(0.2)
Hemangiosarcoma	1	(0.2)
Myofibroblastic tumor, NOS	1	(0.2)
Osteosarcoma, NOS	1	(0.2)
Malig. lymphoma, large B-cell, diffuse, NOS	1	(0.2)
Spindle cell sarcoma	1	(0.2)
Mixed tumor, malig., NOS	1	(0.2)
Malig. fibrous histiocyoma	1	(0.2)
Undiff. pleomorphic sarcoma	1	(0.2)
Total	417	(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	2	0	0	0	0	0	0	0	0	0	0	2
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	17(1)	2	0	0	1	0	0	0	0	0	0	20
T3	82(1)	5	0	0	8	5(1)	0	0	0	0	0	100
T4	8	0	1	0	1	1(1)	0	0	0	0	0	11
T4a	127(5)	16(2)	1	2	30(2)	13(2)	0	0	1	0	0	190
T4b	63(5)	5	0	0	9(2)	4	1	0	0	2	1	85
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	3(1)	0	0	0	0	0	0	0	0	1	1	5
T-	0	0	0	0	0	0	0	0	0	0	4	4
Total	302	28	2	2	49	23	1	0	1	3	6	417

M1:23 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	Maxillary sinus	Total
Surgery		
without	283 (68.0)	
with	126 (30.3)	
unknown	7 (1.7)	
Radiotherapy		
without	63 (15.1)	
with	346 (83.2)	
unknown	7 (1.7)	
Chemotherapy		
without	115 (27.6)	
with	294 (70.7)	
unknown	7 (1.7)	
Total	416 (100)	

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

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Maxillary sinus	Total
Surgery		
without	333 (81.8)	
with	67 (16.5)	
unknown	7 (1.7)	
Radiotherapy		
without	268 (65.8)	
with	132 (32.4)	
unknown	7 (1.7)	
Chemotherapy		
without	278 (68.3)	
with	122 (30.0)	
unknown	7 (1.7)	
Total	407 (100.0)	

Treatment Method for the Cervical Lymph Nodes by Subsite was not reported in 10 patients.

Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Maxillary sinus	Total
No treatment	6 (	1.4)
F)(Rad.+Chem.)	163 (	39.2)
B) Rad. alone	53 (	12.7)
A)F) Surg.->(Rad.+Chem.)	32 (	7.7)
A) Surg. alone	31 (	7.5)
A)B) Surg.->Rad.	19 (	4.6)
F)A)(Rad.+Chem.)->Surg.	15 (	3.6)
C)F) Chem. -> (Rad.+Chem.)	13 (	3.1)
F)C)(Rad.+Chem.)->Chem.	12 (	2.9)
C) Chem. alone	10 (	2.4)
C)A) Chem.->Surg.	5 (	1.2)
C)A)F) Chem.->Surg.->(Rad.+Chem.)	5 (	1.2)
C)B) Chem.->Rad.	5 (	1.2)
B)C) Rad.->Chem.	4 (	1.0)
Other	36 (	8.7)
Unknown	7 (	1.7)
Total	416 (	100.0)

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	Maxillary sinus	Total
X0 No surgery	284 (68.1)	
D2 Total maxillectomy	68 (16.3)	
D1 Partial maxillectomy	29 (7.0)	
D3 Extended maxillectomy	13 (3.1)	
D9 Maxillectomy, other type	11 (2.6)	
V9 Unknown	7 (1.7)	
D4 Skull base surgery	4 (1.0)	
Others+	1 (0.2)	
V9 Unknown	7 (1.7)	
Total	417 (100)	

Reconstructive Surgery by Subsite

Reconstructive surgery	Maxillary sinus	Total
0) No reconstruction	325 (77.9)	
D) Free RA MC flap	52 (12.5)	
E) Free ALT flap	16 (3.8)	
1) Skin graft	4 (1.0)	
C) Free FA flap	4 (1.0)	
2) Local skin flap	1 (0.2)	
3) Mucosal flap	1 (0.2)	
F) Free scapular OC flap	1 (0.2)	
G) Free fibular OC flap	1 (0.2)	
Others	4 (1.0)	
9) Unknown	8 (1.9)	
Total	417 (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	Maxillary sinus	Total
0) No N.D.	337 (80.8)	
2) Selective N.D.	50 (12.0)	
1) Total N.D.	23 (5.5)	
9) Unknown	7 (1.7)	
Total	417 (100.0)	

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Maxillary sinus	Total
0) No N.D.	402 (96.4)	
2) Selective N.D.	5 (1.2)	
1) Total N.D.	3 (0.7)	
9) Unknown	7 (1.7)	
Total	417 (100.0)	

N.D.: neck dissection.

Radiotherapy by Subsite

Type of radiotherapy	Maxillary sinus	Total
0) No radiotherapy	60 (14.4)	
1) X-ray (and/or electron beam)	319 (76.5)	
2) Particle beam	30 (7.2)	
8) Others	1 (0.2)	
9) Unknown	7 (1.7)	
Total	417 (100)	

B.T.: brachytherapy.

Chemotherapy by Subsite

Route of administration	Maxillary sinus	Total
0) No chemotherapy	112 (26.9)	
1) I.V.	145 (34.8)	
2) I.A.	137 (32.9)	
4) I.V.+I.A.	10 (2.4)	
5) I.V.+Oral	1 (0.2)	
6) I.A.+Oral	3 (0.7)	
9) Unknown	9 (2.2)	
Total	417 (100)	

I.V.: intravenous.

I.A.: intraarterial.

Major Salivary Glands (2019)

765 Cases

Primary Site

Site	Number of patients	(%)
Parotid gland	535	(69.9)
Submandibular gland	187	(24.4)
Sublingual gland	39	(5.1)
Majorsalivary gland, NOS	4	(0.5)
Total	765	(100)

NOS: not otherwise specified.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	1	7	8
20 - 29	10	11	21
30 - 39	19	15	34
40 - 49	55	39	94
50 - 59	80	53	133
60 - 69	135	60	195
70 - 79	120	68	188
80 - 89	48	31	79
90 - 99	9	3	12
100 - 109	0	0	0
Total	478	287	765

NOS: not otherwise specified.

Parotid gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	1	7	8
20 - 29	9	9	18
30 - 39	14	13	27
40 - 49	41	31	72
50 - 59	55	37	92
60 - 69	95	42	137
70 - 79	79	42	121
80 - 89	32	18	50
90 - 99	6	3	9
100 - 109	0	0	0
Total	333	202	535

Submandibular gland

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	1	2	3
30 - 39	3	2	5
40 - 49	13	5	18
50 - 59	22	13	35
60 - 69	36	12	48
70 - 79	33	18	51
80 - 89	13	12	25
90 - 99	2	0	2
100 - 109	0	0	0
Total	123	64	187

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	2	0	2
40 - 49	1	3	4
50 - 59	3	3	6
60 - 69	4	6	10
70 - 79	6	6	12
80 - 89	3	1	4
90 - 99	1	0	1
100 - 109	0	0	0
Total	20	19	39

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	0	0	0
40 - 49	0	0	0
50 - 59	0	0	0
60 - 69	0	0	0
70 - 79	2	2	4
80 - 89	0	0	0
90 - 99	0	0	0
100 - 109	0	0	0
Total	2	2	4

Carcinoma of the Major Salivary Glands -----765 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
Salivary duct ca.	102	46	0	0	148
Adenoid cystic ca.	59	47	26	0	132
Mucoepidermoid ca.	92	10	4	1	107
Ca. ex pleomorphic adenoma	62	26	0	0	88
S.C.C., NOS	48	13	3	0	64
Adenocarcinoma, NOS	33	13	2	0	48
Ca., NOS	29	7	0	0	36
Acinar cell ca.	24	2	0	1	27
Epithelial-myoepithelial ca.	18	4	0	0	22
Myoepithelial ca.	8	5	2	0	15
Lymphoepithelial ca.	5	2	1	0	8
Malig. lymphoma, NOS	4	3	0	0	7
Neoplasm, malig.	7	0	0	0	7
Carcinosarcoma, NOS	5	1	0	0	6
Secretory ca. of breast	5	1	0	0	6
Basal cell adenocarcinoma	5	0	0	0	5
Polymorphous low grade adenocarcinoma	2	1	1	0	4
S.C.C., kerat., NOS	2	1	0	0	3
Basal cell ca., NOS	2	1	0	0	3
Hemangiosarcoma	2	0	0	1	3
Cystadenocarcinoma	3	0	0	0	3
Malig. melanoma, NOS	2	0	0	0	2
Mucinous adenocarcinoma	2	0	0	0	2
Oncocytic ca.	1	1	0	0	2
S.C.C. in situ, NOS	1	0	0	0	1
Small cell ca., NOS	1	0	0	0	1
Ca., undiff., NOS	1	0	0	0	1
Large cell ca., NOS	1	0	0	0	1
Carcinoid tumor, NOS	0	1	0	0	1
Leiomyosarcoma, NOS	0	1	0	0	1
Osteosarcoma, NOS	1	0	0	0	1
Sebaceous ca.	1	0	0	0	1
Solitary fibrous tumor, malig.	1	0	0	0	1
Follicular lymphoma, grade1	1	0	0	0	1
Malig. lymphoma, large B-cell, diffuse, NOS	1	0	0	0	1
Clear cell ca., NOS	0	0	0	1	1
Mixed tumor, malig., NOS	0	1	0	0	1
Follicular lymphoma, grade 2	1	0	0	0	1
Ca. showing thymus-like elements (CASTLE)	1	0	0	0	1
Marginal zone B-cell lymphoma, NOS	1	0	0	0	1
Low-grade cribriform cystadenocarcinoma	1	0	0	0	1
Total	535	187	39	4	765

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	2	0	0	0	0	0	0	0	0	0	0	2
T1	101(1)	7	0	0	4	0	0	0	1	1	0	114
T2	169(4)	16(4)	0	3	29(4)	4(3)	0	1	2	0	0	224
T3	115(3)	10(1)	2(1)	2	36(5)	5(1)	0	1	15(6)	0	0	186
T4	4	1	0	0	1	0	1	0	0	1	0	8
T4a	99(2)	12	1	0	38(10)	5(2)	0	0	13(3)	0	0	168
T4b	10	1	0	0	8(2)	0	0	0	1(1)	0	0	20
TX	4(1)	0	0	0	1	0	0	0	0	26	4	35
T-	0	0	0	0	0	0	0	0	0	0	8	8
Total	504	47	3	5	117	14	1	2	32	28	12	765

M1:54 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

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	73	3	0	0	3	0	0	0	1	1	0	81
T2	113	6	0	0	19(2)	3(2)	0	0	0	0	0	141
T3	81(2)	3	1	2	20(1)	3(1)	0	1	6(3)	0	0	117
T4	4	0	0	0	1	0	0	0	0	1	0	6
T4a	87(1)	10	1	0	32(8)	4(2)	0	0	10(2)	0	0	144
T4b	9	1	0	0	8(2)	0	0	0	0	0	0	18
TX	2	0	0	0	1	0	0	0	0	15	3	21
T-	0	0	0	0	0	0	0	0	0	0	5	5
Total	371	23	2	2	84	10	0	1	17	17	8	535

M1:26 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	0	0	0	0	0	0	0	0	0	0	0	0
T1	19	4	0	0	1	0	0	0	0	0	0	24
T2	44(4)	7(3)	0	3	9(1)	1(1)	0	1	2	0	0	67
T3	26	6(1)	1(1)	0	14(3)	1	0	0	9(3)	0	0	57
T4	0	0	0	0	0	0	1	0	0	0	0	1
T4a	10(1)	2	0	0	6(2)	1	0	0	3(1)	0	0	22
T4b	0	0	0	0	0	0	0	0	1(1)	0	0	1
TX	2(1)	0	0	0	0	0	0	0	0	9	1	12
T-	0	0	0	0	0	0	0	0	0	0	3	3
Total	101	19	1	3	30	3	1	1	15	9	4	187

M1:23 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

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	9(1)	0	0	0	0	0	0	0	0	0	0	9
T2	11	3(1)	0	0	1(1)	0	0	0	0	0	0	15
T3	7(1)	1	0	0	1(1)	1	0	0	0	0	0	10
T4	0	1	0	0	0	0	0	0	0	0	0	1
T4a	2	0	0	0	0	0	0	0	0	0	0	2
T4b	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	29	5	0	0	2	1	0	0	0	2	0	39

M1:5 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	0	0	0	0	0	0	0	0	0	0	0	0
T2	1	0	0	0	0	0	0	0	0	0	0	1
T3	1	0	0	0	1	0	0	0	0	0	0	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	1	0	0	0	0	0	0	0	0	0	0	1
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	3	0	0	0	1	0	0	0	0	0	0	4

M1:0 case.

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

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

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	76	22	3	0	101
with	447	160	35	4	646
unknown	9	4	1	0	14
Radiotherapy					
without	267	103	28	3	401
with	256	79	10	1	346
unknown	9	4	1	0	14
Chemotherapy					
without	433	149	36	3	621
with	90	33	2	1	126
unknown	9	4	1	0	14
Total	532	186	39	4	761

NOS: not otherwise specified.

Treatment Method for the Primary Lesion by Subsite was not reported in 4 patients.

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	290	53	12	3	358
with	229	126	26	1	382
unknown	9	4	1	0	14
Radiotherapy					
without	373	107	31	3	514
with	146	72	7	1	226
unknown	9	4	1	0	14
Chemotherapy					
without	453	151	36	3	643
with	66	28	2	1	97
unknown	9	4	1	0	14
Total	528	183	39	4	754

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

NOS: not otherwise specified.

Carcinoma of the Major Salivary Glands -----765 Cases
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
No treatment	10	6	1	0	17
A) Surg. alone	231	82	25	3	341
A)B) Surg.->Rad.	156	50	10	0	216
A)F) Surg.->(Rad.+Chem.)	32	9	0	0	41
B) Rad. alone	24	4	0	0	28
C) Chem. alone	12	4	1	0	17
F)(Rad.+Chem.)	15	2	0	0	17
A)C) Surg. -> Chem	5	6	0	0	11
D)(Surg.+Rad.)	3	3	0	0	6
A)B)C) Surg.->Rad.->Chem.	3	1	0	1	5
A)F)C) Surg.->(Rad.+Chem.)->Chem.	2	3	0	0	5
G)Surg.+Rad.+Chem.	3	2	0	0	5
B)C) Rad.->Chem.	3	1	0	0	4
A)A) Surg.->Surg.	2	1	0	0	3
C)C)C) Chem.->Chem.->Chem.	2	1	0	0	3
Other	20	7	1	0	28
Unknown	9	4	1	0	14
Total	532	186	39	4	761

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

NOS: not otherwise specified.

Sequence of Treatment Methods for the Primary Lesion by Subsite was not reported in 4 patients.

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
X0 No surgery	77	23	3	0	103
H4 Total parotidectomy	159	1	0	0	160
H6 Submandibulectomy	1	147	0	1	149
H2 Superficial parotidectomy	146	1	0	0	147
H5 Extended total parotidectomy	58	0	0	0	58
H1 Partial parotidectomy	45	0	0	0	45
H3 Deep lobe resection of the parotid gland	29	0	0	1	30
H7 Resection of the sublingual gland	0	1	16	0	17
C2 Resection of the floor of mouth	0	1	10	0	11
H9 Paroticectomy,NOS	6	1	2	1	10
B2 Segmental mandibulectomy	0	2	3	0	5
Others	5	6	3	1	15
V9 Unknown	9	4	1	0	14
Total	535	187	38	4	764

NOS: not otherwise specified.

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

Reconstructive Surgery by Subsite

Reconststructive surgery	Parotid gland (C07.9)	Sub- mandibular gland (C08.0)	Sub- lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No reconstruction	415	165	18	2	600
E) Free ALT flap	31	4	11	2	48
I) Free nerve graft	44	1	0	0	45
D) Free RA MC flap	8	4	1	0	13
2) Local skin flap	9	2	0	0	11
5) PM MC flap	8	2	1	0	11
C) Free FA flap	0	1	4	0	5
4) DP flap	1	2	0	0	3
1) Skin graft	1	1	0	0	2
G) Free fibular OC flap	0	1	1	0	2
F) Free scapular OC flap	0	0	1	0	1
Others	8	0	1	0	9
9) Unknown	10	4	1	0	15
Total	535	187	39	4	765

RA: rectus abdominis.

FA: forearm.

DP: deltopectoral.

NOS: not otherwise specified.

MC: musculocutaneous.

PM: pectoralis major.

ALT: anterolateral thigh.

OC: osteocutaneous.

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.	294	55	12	3	364
2) Selective N.D.	135	90	23	1	249
1) Total N.D.	74	37	3	0	114
3) Lymph node excision	15	1	0	0	16
8) Others	6	0	0	0	6
9) Unknown	11	4	1	0	16
Total	535	187	39	4	765

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.	513	174	33	4	724
2) Selective N.D.	2	8	4	0	14
1) Total N.D.	1	1	1	0	3
3) Lymph node excision	2	0	0	0	2
8) Others	6	0	0	0	6
9) Unknown	11	4	1	0	16
Total	535	187	39	4	765

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	260	98	25	3	386
1) X-ray (and/or electron beam)	244	83	12	1	340
2) Particle beam	19	2	1	0	22
4) X-ray + Particle beam	1	0	0	0	1
8) Others	1	0	0	0	1
9) Unknown	10	4	1	0	15
Total	535	187	39	4	765

NOS: not otherwise specified.

Chemotherapy by Subsite

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	433	146	36	3	618
1) I.V.	86	33	2	0	121
2) I.A.	1	0	0	0	1
3) Oral	3	3	0	1	7
5) I.V.+Oral	1	1	0	0	2
9) Unknown	11	4	1	0	16
Total	535	187	39	4	765

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Primary Unknown (2019)

13 Cases

Subtype

Subtype	Number of patients	(%)
EBV positive	0	(0.0)
p16 positive	12	(92.3)
Other	1	(7.7)
Total	13	(100.0)

Patients with both EBV-positive and p16-positive are classified as "EBV-positive" in all the tables.

Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	3	1	4
60 - 69	2	3	5
70 - 79	1	0	1
80 - 89	2	0	2
90 - 99	0	0	0
100 - 109	0	0	0
Total	9	4	13

Primary Unknown-----13 Cases

EBV positive
Age Distribution by Gender

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

p16 positive
Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	2	1	3
60 - 69	2	3	5
70 - 79	1	0	1
80 - 89	2	0	2
90 - 99	0	0	0
100 - 109	0	0	0
Total	8	4	12

Primary Unknown-----13 Cases

Other

Age Distribution by Gender

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

EBV positive N and M Status

	N1	N2	N3	NX	N-	Total
M0	0	0	0	0	0	0
M1	0	0	0	0	0	0
MX	0	0	0	0	0	0
M-	0	0	0	0	0	0
Total	0	0	0	0	0	0

p16 positive N and M Status

	N1	N2	N3	NX	N-	Total
M0	7	5	0	0	0	12
M1	0	0	0	0	0	0
MX	0	0	0	0	0	0
M-	0	0	0	0	0	0
Total	7	5	0	0	0	12

Other N and M Status

	N1	N2a	N2b	N2c	N3a	N3b	NX	N-	Total
M0	0	0	0	0	0	1	0	0	1
M1	0	0	0	0	0	0	0	0	0
MX	0	0	0	0	0	0	0	0	0
M-	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	0	1

Treatment Methods for the Primary Lesion by Subsite

Treatment Method	EBV positive	p16 positive	Other	Total
Surgery				
without	0	8	0	8
with	0	4	1	5
unknown	0	0	0	0
Radiotherapy				
without	0	8	0	8
with	0	4	1	5
unknown	0	0	0	0
Chemotherapy				
without	0	12	0	12
with	0	0	1	1
unknown	0	0	0	0
Total	0	12	1	13

Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	EBV positive	p16 positive	Other	Total
Surgery				
without	0	2	0	2
with	0	10	1	11
unknown	0	0	0	0
Radiotherapy				
without	0	6	0	6
with	0	6	1	7
unknown	0	0	0	0
Chemotherapy				
without	0	10	0	10
with	0	2	1	3
unknown	0	0	0	0
Total	0	12	1	13

Sequence of Treatment Methods for the Cervical Lymph Nodes by Subtype

Sequence of treatment methods	EBV positive	p16 positive	Other	Total
A) Surg. alone	0	6	0	6
A)B) Surg.->Rad.	0	3	0	3
A)F) Surg.->(Rad.+Chem.)	0	1	1	2
B) Rad. alone	0	1	0	1
F)(Rad.+Chem.)	0	1	0	1
Total	0	12	1	13

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Neck Dissection on the Ipsilateral Side by Subtype

Neck dissection	EBV positive	p16 positive	Other	Total
0) No N.D.	0	2	0	2
1) Total N.D.	0	3	1	4
2) Selective N.D.	0	6	0	6
3) Lymph node excision	0	0	0	0
8) Others	0	0	0	0
9) Unknown	0	1	0	1
Total	0	12	1	13

N.D.: neck dissection.

Neck Dissection on the Contralateral Side by Subtype

Neck dissection	EBV positive	p16 positive	Other	Total
0) No N.D.	0	10	1	11
1) Total N.D.	0	1	0	1
2) Selective N.D.	0	1	0	1
3) Lymph node excision	0	0	0	0
8) Others	0	0	0	0
9) Unknown	0	0	0	0
Total	0	12	1	13

N.D.: neck dissection.

Radiotherapy by Subtype

Type of radiotherapy	EBV positive	p16 positive	Other	Total
0) No radiotherapy	0	6	0	6
1) X-ray (and/or electron beam)	0	6	1	7
2) Particle beam	0	0	0	0
3) B.T.	0	0	0	0
4) X-ray + Particle beam	0	0	0	0
5) X-ray + B.T.	0	0	0	0
6) Particl beam + B.T.	0	0	0	0
7) X-ray + Particl beam + B.T.	0	0	0	0
8) Others	0	0	0	0
9) Unknown	0	0	0	0
Total	0	12	1	13

B.T.: brachytherapy.

Chemotherapy by Subtype

Route of administration	EBV positive	p16 positive	Other	Total
0) No chemotherapy	0	10	0	10
1) I.V.	0	1	1	2
2) I.A.	0	0	0	0
3) Oral	0	1	0	1
4) I.V.+I.A.	0	0	0	0
5) I.V.+Oral	0	0	0	0
6) I.A.+Oral	0	0	0	0
7) I.V.+I.A.+Oral	0	0	0	0
8) Others	0	0	0	0
9) Unknown	0	0	0	0
Total	0	12	1	13

I.V.: intravenous.

I.A.: intraarterial.