

Head and Neck Cancer ----- 13390 Cases

Report of Head and Neck Cancer Registry of Japan  
Clinical Statistics of Registered Patients, 2020

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 100000 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.

July 30, 2023

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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 14837 cases (including cases other than in the year 2020 and with unknown presentation of diseases, unknown aim for therapies, previously treated) were registered from January 15, 2020 to Oct. 30, 2021. Data correction by each institution is allowed once by the system, and the data registered before Oct. 31, 2021, 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 13390 for the starting date of the initial therapy from Jan. 1 to Dec. 31, 2020, after excluding cases other than in the year 2020 and with unknown presentation of diseases and duplicated registration.

List of 215 Institutions which participate in the Registry in 2020

- 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, Nikko Memorial Hospital
- 19 Department of Otorhinolaryngology, Hirosaki University Hospital
- 20 Department of Oral Surgery, Hirosaki University Hospital
- 21 Department of Otorhinolaryngology, Akita University Hospital
- 22 Department of Head and Neck Surgery, Miyagi Cancer Center
- 23 Department of Otorhinolaryngology, Sendai Medical Center
- 24 Department of Otorhinolaryngology, Tohoku University Hospital
- 25 Department of Otorhinolaryngology, Iwate Medical University
- 26 Department of Otorhinolaryngology, Yamagata Prefectural Central Hospital
- 27 Department of Otorhinolaryngology, Yamagata University Hospital
- 28 Department of Otorhinolaryngology, Nihonkai General Hospital
- 29 Department of Otorhinolaryngology, Minami Tohoku Hospital
- 30 Department of Otorhinolaryngology, Fukushima Medical University Hospital
- 31 Department of Head and Neck Surgery, Niigata Cancer Center
- 32 Department of Otorhinolaryngology, Niigata University Medical & Dental Hospital
- 33 Department of Department of Tissue Regeneration and Reconstruction, Niigata University Medical & Dental Hospital
- 34 Department of Oral and Maxillofacial Surgery, Niigata University Medical & Dental Hospital
- 35 Department of Oral Surgery, Nippon Dental University Hospital
- 36 Department of Otorhinolaryngology, Japanese Red Cross Nagaoka Hospital

List of 215 Institutions which participate in the Registry in 2020

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

List of 215 Institutions which participate in the Registry in 2020

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

List of 215 Institutions which participate in the Registry in 2020

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



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

List of 215 Institutions which participate in the Registry in 2020

- 181 Department of Otorhinolaryngology, Ehime Prefectural Central Hospital
- 182 Department of Otorhinolaryngology, Ehime University Hospital
- 183 Department of Otorhinolaryngology, Uwajima City Hospital
- 184 Department of Head and Neck Surgery, Shikoku Cancer Center
- 185 Department of Otorhinolaryngology, Kochi Medical Center
- 186 Department of Otorhinolaryngology, Kochi Medical School Hospital
- 187 Department of Otorhinolaryngology, Kagawa University Hospital
- 188 Department of Oral Surgery, Tokushima University Hospital
- 189 Department of Otorhinolaryngology, Tokushima University Hospital
- 190 Department of Otorhinolaryngology, Oita University Hospital
- 191 Department of Oral Surgery, Oita University Hospital
- 192 Department of Otorhinolaryngology, University of Occupational and Environmental Health
- 193 Department of Otorhinolaryngology, Kokura Memorial Hospital
- 194 Department of Otorhinolaryngology, Kitakushu General Hospital
- 195 Department of Head and Neck Surgery, Kyushu Cancer Center
- 196 Department of Otorhinolaryngology, Kyushu University Hospital
- 197 Department of Otorhinolaryngology, Kyushu Medical Center
- 198 Department of Otorhinolaryngology, Hamanomachi Hospital
- 199 Department of Oral Surgery, Fukuoka University
- 200 Department of Oral Surgery, Fukuoka Dental University
- 201 Department of Otorhinolaryngology, Kurume University Hospital
- 202 Department of Otorhinolaryngology, Saga University Hospital
- 203 Department of Otorhinolaryngology, Sasebo Kyosai Hospital
- 204 Department of Otorhinolaryngology, Sasebo City General Hospital
- 205 Department of Otorhinolaryngology, Nagasaki Medical Center
- 206 Department of Otorhinolaryngology, Nagasaki University Hospital
- 207 Department of Otorhinolaryngology, Kumamoto University Hospital
- 208 Department of Otorhinolaryngology, Miyazaki University Hospital
- 209 Department of Otorhinolaryngology, Miyazaki Prefectural Miyazaki Hospital
- 210 Department of Otorhinolaryngology, Kagoshima Medical Center
- 211 Department of Otorhinolaryngology, Kagoshima City Hospital
- 212 Department of Otorhinolaryngology, Kagoshima University Medical and Dental Hospital
- 213 Department of Otorhinolaryngology, Imakiire General Hospital
- 214 Department of Otorhinolaryngology, Okinawa Prefectural Chubu Hospital
- 215 Department of Otorhinolaryngology, Ryukyu University Hospital

Total Cases (2020)

13390 Cases

## Primary Site

Site	Number of patients	(%)
1) Oral cavity	3643	( 27.2 )
2) Larynx	2186	( 16.3 )
3) Hypopharynx	3047	( 22.8 )
4) Oropharynx	2347	( 17.5 )
5) Nasopharynx	398	( 3.0 )
6) Nasal cavity, etc	483	( 3.6 )
7) Maxillary sinus	425	( 3.2 )
8) Major salivary glands	725	( 5.4 )
9) Unknown primary	136	( 1.0 )
<b>Total</b>	<b>13390</b>	<b>( 100 )</b>

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

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	6	1	7
10 - 19	9	11	20
20 - 29	49	36	85
30 - 39	137	108	245
40 - 49	559	291	850
50 - 59	1344	451	1795
60 - 69	3032	631	3663
70 - 79	3919	889	4808
80 - 89	1230	515	1745
90 - 99	93	78	171
100 - 109	1	0	1
<b>Total</b>	<b>10379</b>	<b>3011</b>	<b>13390</b>

# 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	3123	1967	2711	2026	247	176	302	62	130	10744
S.C.C., keratinizing, NOS	175	67	84	66	9	10	19	2	2	434
S.C.C. in situ, NOS	94	66	143	52	1	7	0	1	0	364
Adenoid cystic ca.	47	7	1	9	9	24	19	124	0	240
Salivary duct ca.	5	1	0	0	0	0	0	165	0	171
Mucoepidermoid ca.	31	0	3	19	3	0	4	101	0	161
S.C.C., large cell, nonkerat, NOS	7	5	28	34	42	6	6	1	1	130
Ca., NOS	13	10	9	6	21	19	8	33	0	119
Malig. melanoma, NOS	24	0	0	1	1	82	6	0	0	114
Adenocarcinoma, NOS	4	3	3	6	2	17	10	40	0	85
Ca. ex pleomorphic adenoma	2	1	0	2	0	0	0	62	0	67
Olfactory neuroblastoma	0	0	0	0	0	55	1	0	0	56
Malig. lymphoma, NOS	5	0	1	16	3	10	7	13	0	55
Lymphoepithelial ca.	2	1	7	1	26	0	1	1	0	39
S.C.C., microinvasive	8	4	9	13	1	1	0	0	0	36
S.C.C., HPV positive	0	0	0	34	0	0	0	0	0	34
Verrucous ca., NOS	27	6	0	0	0	0	0	0	0	33
Epithelial-myoepithelial ca.	2	0	0	0	0	3	0	28	0	33
Ca., undiff., NOS	1	0	2	0	8	11	8	2	0	32
Small cell ca., NOS	1	2	3	5	2	14	3	1	0	31
S.C.C., spindle cell	5	4	8	5	1	1	5	0	0	29
Myoepithelial ca.	2	0	0	2	1	3	0	20	0	28
Spindle cell ca., NOS	3	15	2	2	0	1	4	0	0	27
Acinar cell ca.	2	0	0	0	0	0	0	23	0	25
Neoplasm, malig.	4	3	3	4	0	3	4	4	0	25
Papillary S.C.C.	7	3	3	9	0	2	1	0	0	25
S.C.C., small cell, nonkerat	0	0	2	1	13	2	2	0	3	23
S.C.C., HPV negative	1	2	0	19	0	0	0	0	0	22
Adenosquamous ca.	10	2	6	1	0	0	0	2	0	21
Basaloid S.C.C.	4	1	7	3	1	1	2	1	0	20
Carcinosarcoma, NOS	2	3	2	1	0	2	4	2	0	16
Basal cell adenocarcinoma	0	0	0	1	1	1	0	8	0	11
Mucinous adenocarcinoma	1	0	0	1	0	0	0	6	0	8
Clear cell ca., NOS	5	0	0	2	0	0	0	1	0	8
Hemangiosarcoma	0	0	0	0	0	1	3	4	0	8
Rhabdomyosarcoma, NOS	1	1	0	0	0	6	0	0	0	8
Intraepithelial ca.	5	1	1	0	0	0	0	0	0	7
Alveolar rhabdomyosarcoma	0	0	0	0	0	6	0	0	0	6
Malig. teratoma, undiff.	1	0	1	0	0	2	1	1	0	6
Leiomyosarcoma, NOS	3	0	0	1	0	1	0	1	0	6
Transitional cell ca., NOS	0	1	2	0	1	0	1	0	0	5
Carcinoid tumor, NOS	0	1	0	1	0	3	0	0	0	5
Chondrosarcoma, NOS	1	2	0	0	0	1	0	0	0	4
Secretory ca. of breast	0	0	0	0	0	0	0	4	0	4
Fibrosarcoma, NOS	2	0	0	0	0	2	0	0	0	4
Cystadenocarcinoma	0	0	0	0	0	0	1	3	0	4
Liposarcoma, NOS	1	1	1	0	0	0	0	0	0	3
Basal cell ca., NOS	0	0	1	0	0	1	0	1	0	3
S.C.C., nonkerat	0	1	2	0	0	0	0	0	0	3
Sarcoma, NOS	1	0	0	0	1	1	0	0	0	3
Osteosarcoma, NOS	3	0	0	0	0	0	0	0	0	3
Mammary Analogue Secretory ca.	0	0	0	0	0	0	0	2	0	2
Large cell ca., NOS	0	0	0	1	0	1	0	0	0	2
S.C.C. in situ with quest. stromal invasion	0	2	0	0	0	0	0	0	0	2
Extraskletal Ewing's sarcoma	1	0	0	0	0	1	0	0	0	2
Spindle cell sarcoma	1	0	0	0	0	0	1	0	0	2
Mixed tumor, malig., NOS	0	0	0	0	0	1	0	1	0	2
Intraepithelial neoplasia, grade III	1	1	0	0	0	0	0	0	0	2
Polymorphous low grade adenocarcinoma	0	0	0	0	0	0	0	2	0	2
Papillary adenocarcinoma, NOS	0	0	0	0	2	0	0	0	0	2
Malig. lymphoma, large B-cell, diffuse, NOS	0	0	0	1	0	0	0	1	0	2
Malig. fibrous histiocytoma	0	1	0	0	0	0	1	0	0	2
Undiff. pleomorphic sarcoma	0	1	0	0	0	0	1	0	0	2
Spindle cell rhabdomyosarcoma	0	0	1	0	0	0	0	0	0	1
Synovial sarcoma	1	0	0	0	0	0	0	0	0	1
Esthesioneurocytoma	0	0	0	0	0	1	0	0	0	1
Follicular dendritic cell sarcoma	0	0	0	0	1	0	0	0	0	1
Clear cell odontogenic ca.	1	0	0	0	0	0	0	0	0	1
Giant cell sarcoma	0	0	0	0	0	0	0	1	0	1
S.C.C. in situ, p16 positive	0	0	0	1	0	0	0	0	0	1
Large cell neuroendocrine ca.	0	0	0	1	0	0	0	0	0	1
Alveolar soft part sarcoma	1	0	0	0	0	0	0	0	0	1
Myofibroblastic tumor, NOS	0	0	0	0	0	1	0	0	0	1
Plasmablastic lymphoma	1	0	0	0	0	0	0	0	0	1
Neuroendocrine ca., NOS	0	0	0	0	0	1	0	0	0	1
Plasmacytoma, NOS	0	0	1	0	0	0	0	0	0	1
Histiocytic sarcoma	0	0	0	0	0	0	0	1	0	1
Combined squamous cell and small cell neuroendocrine ca.	0	0	0	0	0	1	0	0	0	1
Embryonal rhabdomyosarcoma, NOS	1	0	0	0	0	0	0	0	0	1
Hodgkin lymphoma, NOS	0	0	0	0	1	0	0	0	0	1
Round cell tumor, neuroendocrine tumor	0	0	0	0	0	1	0	0	0	1
<b>Total</b>	<b>3643</b>	<b>2186</b>	<b>3047</b>	<b>2347</b>	<b>398</b>	<b>483</b>	<b>425</b>	<b>725</b>	<b>136</b>	<b>13390</b>

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

NOS: not otherwise specified.

S.C.C.: squamous cell carcinoma.

undiff.: undifferentiated.

quest.: questionable.

nonkerat.: nonkeratinizing.

ca., Ca.: carcinoma.

malig., Malig.: malignant.

kerat.: keratinizing.

Head and Neck Cancer ----- 13390 Cases

# 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	1951	1771	2486	1663	190	126	246	53	110	8596
S.C.C., keratinizing, NOS	98	62	75	55	4	9	14	1	2	320
S.C.C. in situ, NOS	51	55	130	42	0	6	0	1	0	285
Salivary duct ca.	5	1	0	0	0	0	0	136	0	142
Adenoid cystic ca.	21	4	1	2	5	15	11	54	0	113
S.C.C., large cell, nonkerat., NOS	6	5	26	25	29	3	5	1	1	101
Ca., NOS	8	7	9	2	16	13	6	21	0	82
Mucoepidermoid ca.	12	0	2	9	1	0	0	47	0	71
Malig. melanoma, NOS	16	0	0	1	0	42	3	0	0	62
Adenocarcinoma, NOS	4	2	1	5	0	11	8	27	0	58
Ca. ex pleomorphic adenoma	1	0	0	0	0	0	0	38	0	39
Olfactory neuroblastoma	0	0	0	0	0	36	0	0	0	36
S.C.C., microinvasive	4	4	9	12	1	1	0	0	0	31
Lymphoepithelial ca.	1	1	6	1	20	0	1	1	0	31
S.C.C., HPV positive	0	0	0	30	0	0	0	0	0	30
Malig. lymphoma, NOS	3	0	0	8	2	6	4	6	0	29
Verrucous ca., NOS	20	5	0	0	0	0	0	0	0	25
Spindle cell ca., NOS	2	15	2	2	0	1	3	0	0	25
S.C.C., spindle cell	3	4	8	2	1	1	4	0	0	23
Ca., undiff., NOS	1	0	1	0	7	8	4	0	0	21
Small cell ca., NOS	0	1	3	4	1	9	2	1	0	21
Basaloid S.C.C.	4	1	7	3	1	1	1	1	0	19
S.C.C., HPV negative	0	2	0	17	0	0	0	0	0	19
S.C.C., small cell, nonkerat.	0	0	2	1	9	1	2	0	3	18
Adenosquamous ca.	8	2	5	1	0	0	0	2	0	18
Epithelial-myoepithelial ca.	0	0	0	0	0	2	0	14	0	16
Myoepithelial ca.	0	0	0	1	1	2	0	10	0	14
Papillary S.C.C.	2	2	2	6	0	1	0	0	0	13
Neoplasm, malig.	2	3	2	1	0	0	1	3	0	12
Acinar cell ca.	1	0	0	0	0	0	0	8	0	9
Carcinosarcoma, NOS	2	3	2	0	0	0	1	0	0	8
Hemangiosarcoma	0	0	0	0	0	1	3	3	0	7
Transitional cell ca., NOS	0	1	2	0	1	0	1	0	0	5
Clear cell ca., NOS	4	0	0	1	0	0	0	0	0	5
Intraepithelial, NOS	4	1	0	0	0	0	0	0	0	5
Basal cell adenocarcinoma	0	0	0	0	1	0	0	3	0	4
Alveolar rhabdomyosarcoma	0	0	0	0	0	4	0	0	0	4
Carcinoid tumor, NOS	0	1	0	1	0	1	0	0	0	3
Chondrosarcoma, NOS	1	2	0	0	0	0	0	0	0	3
Rhabdomyosarcoma, NOS	1	1	0	0	0	1	0	0	0	3
Sarcoma, NOS	1	0	0	0	1	1	0	0	0	3
Leiomyosarcoma, NOS	1	0	0	0	0	1	0	1	0	3
Liposarcoma, NOS	0	1	1	0	0	0	0	0	0	2
Mucinous adenocarcinoma	1	0	0	0	0	0	0	1	0	2
Mammary Analogue Secretory Ca.	0	0	0	0	0	0	0	2	0	2
Basal cell ca., NOS	0	0	1	0	0	1	0	0	0	2
S.C.C. in situ with quest. stromal invasion	0	2	0	0	0	0	0	0	0	2
S.C.C., nonkerat.	0	0	2	0	0	0	0	0	0	2
Extraskletal Ewing's sarcoma	1	0	0	0	0	1	0	0	0	2
Mixed tumor, malig., NOS	0	0	0	0	0	1	0	1	0	2
Secretory ca. of breast	0	0	0	0	0	0	0	2	0	2
Fibrosarcoma, NOS	0	0	0	0	0	2	0	0	0	2
Malig. teratoma, undiff.	0	0	1	0	0	0	1	0	0	2
Polymorphous low grade adenocarcinoma	0	0	0	0	0	0	0	2	0	2
Cystadenocarcinoma	0	0	0	0	0	0	0	2	0	2
Undiff. pleomorphic sarcoma	0	1	0	0	0	0	1	0	0	2
Large cell ca., NOS	0	0	0	1	0	0	0	0	0	1
Spindle cell sarcoma	1	0	0	0	0	0	0	0	0	1
Esthesioneurocytoma	0	0	0	0	0	1	0	0	0	1
Follicular dendritic cell sarcoma	0	0	0	0	1	0	0	0	0	1
Clear cell odontogenic ca.	1	0	0	0	0	0	0	0	0	1
Osteosarcoma, NOS	1	0	0	0	0	0	0	0	0	1
Intraepithelial neoplasia, grade III	0	1	0	0	0	0	0	0	0	1
Large cell neuroendocrine ca.	0	0	0	1	0	0	0	0	0	1
Papillary adenocarcinoma, NOS	0	0	0	0	1	0	0	0	0	1
Alveolar soft part sarcoma	1	0	0	0	0	0	0	0	0	1
Myofibroblastic tumor, NOS	0	0	0	0	0	1	0	0	0	1
Plasmablastic lymphoma	1	0	0	0	0	0	0	0	0	1
Neuroendocrine ca., NOS	0	0	0	0	0	1	0	0	0	1
Plasmacytoma, NOS	0	0	1	0	0	0	0	0	0	1
Histiocytic sarcoma	0	0	0	0	0	0	0	1	0	1
Embryonal rhabdomyosarcoma, NOS	1	0	0	0	0	0	0	0	0	1
Malig. lymphoma, large B-cell, diffuse, NOS	0	0	0	0	0	0	0	1	0	1
Round cell tumor, neuroendocrine tumor	0	0	0	0	0	1	0	0	0	1
Malig. fibrous histiocytoma	0	1	0	0	0	0	0	0	0	1
<b>Total</b>	<b>2246</b>	<b>1962</b>	<b>2787</b>	<b>1897</b>	<b>293</b>	<b>312</b>	<b>322</b>	<b>444</b>	<b>116</b>	<b>10379</b>

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.

Head and Neck Cancer ----- 13390 Cases

# 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	1172	196	225	363	57	50	56	9	20	2148
Adenoid cystic ca.	26	3	0	7	4	9	8	70	0	127
S.C.C., keratinizing, NOS	77	5	9	11	5	1	5	1	0	114
Mucoepidermoid ca.	19	0	1	10	2	0	4	54	0	90
S.C.C. in situ, NOS	43	11	13	10	1	1	0	0	0	79
Malig. melanoma, NOS	8	0	0	0	1	40	3	0	0	52
Ca., NOS	5	3	0	4	5	6	2	12	0	37
S.C.C., large cell, nonkerat., NOS	1	0	2	9	13	3	1	0	0	29
Salivary duct ca.	0	0	0	0	0	0	0	29	0	29
Ca. ex pleomorphic adenoma	1	1	0	2	0	0	0	24	0	28
Adenocarcinoma, NOS	0	1	2	1	2	6	2	13	0	27
Malig. lymphoma, NOS	2	0	1	8	1	4	3	7	0	26
Olfactory neuroblastoma	0	0	0	0	0	19	1	0	0	20
Epithelial-myoepithelial ca.	2	0	0	0	0	1	0	14	0	17
Acinar cell ca.	1	0	0	0	0	0	0	15	0	16
Myoepithelial ca.	2	0	0	1	0	1	0	10	0	14
Neoplasm, malig.	2	0	1	3	0	3	3	1	0	13
Papillary S.C.C.	5	1	1	3	0	1	1	0	0	12
Ca., undiff., NOS	0	0	1	0	1	3	4	2	0	11
Small cell ca., NOS	1	1	0	1	1	5	1	0	0	10
Lymphoepithelial ca.	1	0	1	0	6	0	0	0	0	8
Verrucous ca., NOS	7	1	0	0	0	0	0	0	0	8
Carcinosarcoma, NOS	0	0	0	1	0	2	3	2	0	8
Basal cell adenocarcinoma	0	0	0	1	0	1	0	5	0	7
S.C.C., spindle cell	2	0	0	3	0	0	1	0	0	6
Mucinous adenocarcinoma	0	0	0	1	0	0	0	5	0	6
S.C.C., microinvasive	4	0	0	1	0	0	0	0	0	5
S.C.C., small cell, nonkerat.	0	0	0	0	4	1	0	0	0	5
Rhabdomyosarcoma, NOS	0	0	0	0	0	5	0	0	0	5
S.C.C., HPV positive	0	0	0	4	0	0	0	0	0	4
Malig. teratoma, undiff.	1	0	0	0	0	2	0	1	0	4
Clear cell ca., NOS	1	0	0	1	0	0	0	1	0	3
Adenosquamous ca.	2	0	1	0	0	0	0	0	0	3
S.C.C., HPV negative	1	0	0	2	0	0	0	0	0	3
Leiomyosarcoma, NOS	2	0	0	1	0	0	0	0	0	3
Spindle cell ca., NOS	1	0	0	0	0	0	1	0	0	2
Carcinoid tumor, NOS	0	0	0	0	0	2	0	0	0	2
Alveolar rhabdomyosarcoma	0	0	0	0	0	2	0	0	0	2
Osteosarcoma, NOS	2	0	0	0	0	0	0	0	0	2
Secretory ca. of breast	0	0	0	0	0	0	0	2	0	2
Intraepithelial, NOS	1	0	1	0	0	0	0	0	0	2
Fibrosarcoma, NOS	2	0	0	0	0	0	0	0	0	2
Cystadenocarcinoma	0	0	0	0	0	0	1	1	0	2
Liposarcoma, NOS	1	0	0	0	0	0	0	0	0	1
Basaloid S.C.C.	0	0	0	0	0	0	1	0	0	1
Hemangiosarcoma	0	0	0	0	0	0	0	1	0	1
Chondrosarcoma, NOS	0	0	0	0	0	1	0	0	0	1
Large cell ca., NOS	0	0	0	0	0	1	0	0	0	1
Basal cell ca., NOS	0	0	0	0	0	0	0	1	0	1
S.C.C., nonkerat.	0	1	0	0	0	0	0	0	0	1
Spindle cell rhabdomyosarcoma	0	0	1	0	0	0	0	0	0	1
Spindle cell sarcoma	0	0	0	0	0	0	1	0	0	1
Synovial sarcoma	1	0	0	0	0	0	0	0	0	1
Giant cell sarcoma	0	0	0	0	0	0	0	1	0	1
Intraepithelial neoplasia, grade III	1	0	0	0	0	0	0	0	0	1
S.C.C. in situ, p16 positive	0	0	0	1	0	0	0	0	0	1
Papillary adenocarcinoma, NOS	0	0	0	0	1	0	0	0	0	1
Combined squamous cell and small cell neuroendocrine ca.	0	0	0	0	0	1	0	0	0	1
Malig. lymphoma, large B-cell, diffuse, NOS	0	0	0	1	0	0	0	0	0	1
Hodgkin lymphoma, NOS	0	0	0	0	1	0	0	0	0	1
Malig. fibrous histiocytoma	0	0	0	0	0	0	1	0	0	1
<b>Total</b>	<b>1397</b>	<b>224</b>	<b>260</b>	<b>450</b>	<b>105</b>	<b>171</b>	<b>103</b>	<b>281</b>	<b>20</b>	<b>3011</b>

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

NOS: not otherwise specified.

S.C.C.: squamous cell carcinoma.

ca., Ca.: carcinoma.

malig., Malig.: malignant.

undiff.: undifferentiated.

quest.: questionable.

kerat.: keratinizing.

nonkerat.: nonkeratinizing.

Head and Neck Cancer ----- 13390 Cases

## T and N Status

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	25	42	9	8	20	6	7	2	43	2	1	165
T1	1874	249	51	14	77	21	29	2	64	10	3	2394
T1a	483	1	0	0	1	0	0	0	1	3	0	489
T1b	147	0	0	0	0	0	0	0	0	0	0	147
T2	2280	677	93	23	376	168	34	4	140	6	0	3801
T3	1237	416	74	20	431	220	27	4	164	1	0	2594
T4	89	128	112	1	15	13	48	0	8	1	0	415
T4a	854	269	3	20	521	306	9	5	219	4	1	2211
T4b	193	47	4	3	91	53	8	0	64	1	1	465
Tis	460	1	0	0	2	1	0	0	2	2	1	469
TX	39	7	1	1	5	3	3	0	3	72	1	135
T-	6	3	0	0	0	1	0	0	0	0	95	105
<b>Total</b>	<b>7687</b>	<b>1840</b>	<b>347</b>	<b>90</b>	<b>1539</b>	<b>792</b>	<b>165</b>	<b>17</b>	<b>708</b>	<b>102</b>	<b>103</b>	<b>13390</b>

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)

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	23	42	8	7	20	6	6	2	38	1	0	153
T1	1866	246	47	14	72	19	25	2	63	5	1	2360
T1a	482	1	0	0	1	0	0	0	1	1	0	486
T1b	145	0	0	0	0	0	0	0	0	0	0	145
T2	2263	668	87	21	365	157	28	4	130	3	0	3726
T3	1212	401	71	20	410	197	21	4	146	0	0	2482
T4	86	120	101	1	13	13	41	0	5	1	0	381
T4a	821	255	3	20	489	280	8	5	188	1	0	2070
T4b	182	41	4	3	84	43	7	0	46	0	0	410
Tis	454	1	0	0	2	1	0	0	2	1	0	461
TX	37	7	1	1	5	1	3	0	3	5	0	63
T-	6	3	0	0	0	1	0	0	0	0	4	14
<b>Total</b>	<b>7577</b>	<b>1785</b>	<b>322</b>	<b>87</b>	<b>1461</b>	<b>718</b>	<b>139</b>	<b>17</b>	<b>622</b>	<b>18</b>	<b>5</b>	<b>12751</b>

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

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



## T and N Status (M1 Cases)

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	1	0	0	0	1	0	5	0	0	8
T1	3	3	3	1	5	2	4	0	1	0	0	21
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	9	7	5	2	6	11	6	0	10	0	0	56
T3	20	14	3	1	19	22	6	0	15	0	0	99
T4	3	8	11	0	0	0	6	0	0	0	0	28
T4a	31	13	0	0	32	26	1	0	30	1	0	133
T4b	10	5	0	0	6	10	1	0	16	0	0	48
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	2	0	0	0	0	1	0	0	0	1	0	4
T-	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>78</b>	<b>50</b>	<b>23</b>	<b>3</b>	<b>68</b>	<b>72</b>	<b>25</b>	<b>0</b>	<b>77</b>	<b>1</b>	<b>0</b>	<b>397</b>

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	2	0	0	0	0	0	0	0	0	1	1	4
T1	5	0	1	0	0	0	0	0	0	5	2	13
T1a	1	0	0	0	0	0	0	0	0	2	0	3
T1b	2	0	0	0	0	0	0	0	0	0	0	2
T2	8	2	1	0	5	0	0	0	0	3	0	19
T3	5	1	0	0	2	1	0	0	3	1	0	13
T4	0	0	0	0	2	0	1	0	3	0	0	6
T4a	2	1	0	0	0	0	0	0	1	3	1	8
T4b	1	1	0	0	1	0	0	0	2	1	1	7
Tis	6	0	0	0	0	0	0	0	0	1	1	8
TX	0	0	0	0	0	1	0	0	0	66	1	68
T-	0	0	0	0	0	0	0	0	0	0	91	91
<b>Total</b>	<b>32</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>10</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>83</b>	<b>98</b>	<b>242</b>

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 ----- 13390 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	417	1326	1488	1341	365	234	277	93	117	5658
with	3107	821	1502	971	29	234	144	623	17	7448
unknown	119	39	57	35	4	15	4	9	2	284
Radiotherapy										
without	2766	699	1335	889	41	154	78	358	83	6403
with	758	1448	1655	1423	353	314	343	358	51	6703
unknown	119	39	57	35	4	15	4	9	2	284
Chemotherapy										
without	2789	1524	1542	1049	77	262	138	571	97	8049
with	735	623	1448	1263	317	206	283	145	37	5057
unknown	119	39	57	35	4	15	4	9	2	284
Total	3643	2186	3047	2347	398	483	425	725	136	13390

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

Head and Neck Cancer ----- 13390 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	1984	1726	2057	1687	382	431	339	323	58	8987
with	1538	403	923	619	11	37	81	389	78	4079
unknown	121	57	67	41	5	15	5	13	0	324
Radiotherapy										
without	2873	1610	1591	1036	96	389	266	458	34	8353
with	649	519	1389	1270	297	79	154	254	102	4713
unknown	121	57	67	41	5	15	5	13	0	324
Chemotherapy										
without	2901	1751	1723	1161	109	371	275	594	58	8943
with	621	378	1257	1145	284	97	145	118	78	4123
unknown	121	57	67	41	5	15	5	13	0	324
Total	3643	2186	3047	2347	398	483	425	725	136	13390

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

Head and Neck Cancer ----- 13390 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	96	37	102	61	10	11	20	16	70	423
A) Surg. alone	2392	619	1023	682	14	101	31	292	10	5164
A)F) Surg.->(Rad.+Chem.)	199	43	142	72	2	15	25	64	3	565
A)A) Surg.->Surg.	28	8	7	7	0	2	0	4	0	56
A)A)F) Surg.->Surg.->(Rad.+Chem.)	5	1	2	1	0	0	1	1	0	11
A)B) Surg.->Rad.	143	65	90	80	6	66	39	221	3	713
A)B)C) Surg.->Rad.->Chem.	8	1	3	1	0	7	1	2	0	23
A)C) Surg. -> Chem	36	7	9	5	0	4	3	11	0	75
A)D) Surg. alone->(Surg.+Rad.)	6	1	4	1	0	1	0	0	0	13
A)F)C) Surg.->(Rad.+Chem.)->Chem.	12	2	3	2	0	2	1	3	0	25
B) Rad. alone	99	789	317	217	48	74	40	27	14	1625
B)A) Rad.->Surg.	2	10	8	2	0	2	2	1	0	27
B)B)B) Rad.->Rad.->Rad.	0	10	2	1	0	0	0	1	0	14
B)C) Rad.->Chem.	3	3	9	8	2	11	4	1	0	41
C) Chem. alone	62	21	95	73	13	27	13	23	2	329
C)A) Chem.->Surg.	115	12	80	51	0	2	7	0	0	267
C)A)B) Chem.->Surg.->Rad.	14	2	14	2	0	4	2	2	0	40
C)A)C) Chem.->Surg.->Chem.	17	0	7	3	0	0	0	1	0	28
C)A)F) Chem.->Surg.->(Rad.+Chem.)	47	3	28	15	1	7	1	2	0	104
C)B) Chem.->Rad.	5	6	23	21	8	11	5	2	1	82
C)C)Chem.->Chem.	5	1	10	6	3	2	1	2	1	31
C)C)C) Chem.->Chem.->Chem.	1	0	4	7	0	1	1	4	0	18
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	1	14	11	1	2	2	1	0	32
C)F) Chem. -> (Rad.+Chem.)	27	35	159	99	30	16	16	2	3	387
C)F)A) Chem. -> (Rad.+Chem.)->Surg.	2	0	4	2	0	4	1	1	0	14
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	1	1	15	6	3	4	0	0	0	30
D)(Surg.+Rad.)	7	3	6	0	0	1	1	4	0	22
E) (Surg.+Chem)	5	3	4	0	0	0	1	0	0	13
F)(Rad.+Chem.)	89	426	723	805	204	57	160	6	24	2494
F)A)(Rad.+Chem.)->Surg.	15	12	19	19	2	4	17	0	0	88
F)A)B)(Rad.+Chem.)->Surg.->Rad.	4	1	3	1	0	0	3	0	0	12
F)C)(Rad.+Chem.)->Chem.	10	2	17	14	38	6	7	1	1	96
F)C)C)(Rad.+Chem.)->Chem.->Chem.	1	2	3	4	5	3	2	1	1	22
G)Surg.+Rad.+Chem.	9	5	7	5	0	2	2	2	0	32
Other	59	15	34	28	4	19	12	18	1	190
Unknown	119	39	57	35	4	15	4	9	2	284
<b>Total</b>	<b>3643</b>	<b>2186</b>	<b>3047</b>	<b>2347</b>	<b>398</b>	<b>483</b>	<b>425</b>	<b>725</b>	<b>136</b>	<b>13390</b>

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 ----- 13390 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	410	1328	1491	1340	366	236	277	95	116	5659
Partial glossectomy	1190	1	0	5	0	0	0	0	0	1196
Endoscopic resection	1	81	440	22	2	1	2	0	0	549
Transoral resection	0	212	305	24	0	1	0	0	0	542
Total laryngectomy	0	400	26	6	0	0	0	0	0	432
Total pharyngolaryngectomy	0	20	380	6	0	0	0	0	0	406
Unilateral resection of the lateral wall of the oropharynx	2	0	1	343	0	0	0	0	8	354
Partial maxillectomy	240	1	0	1	0	25	35	0	0	302
Segmental mandibulectomy	264	1	0	2	0	0	0	3	0	270
Subtotal glossectomy	211	0	1	9	0	0	0	1	0	222
Resection of the floor of mouth	208	0	1	0	0	0	0	8	0	217
Resection of the buccal mucosa	207	0	0	0	0	0	0	0	0	207
Total pharyngolaryngo-esophagectomy	1	5	191	4	0	0	0	0	0	201
Marginal mandibulectomy	177	0	0	0	0	0	0	0	0	177
Total parotidectomy	0	0	0	0	0	0	0	170	0	170
Submandibulectomy	0	0	0	0	0	0	0	147	1	148
Resection of the oropharynx, other type	1	0	1	138	0	0	0	0	2	142
Superficial parotidectomy	0	0	1	0	0	0	0	139	0	140
Hemiglossectomy	127	0	0	2	0	0	0	0	0	129
Resection of oral cavity, NOS	117	0	0	2	0	0	0	0	0	119
Total maxillectomy	39	0	0	0	0	3	70	0	0	112
Resection of the root of tongue	0	0	1	107	0	0	0	0	0	108
Resection of the soft palate	2	0	1	95	2	0	0	0	0	100
Maxillectomy, other type	15	0	0	0	1	67	11	0	0	94
Hemiglossectomy (anterior 2/3rds)	85	0	0	0	0	0	0	0	0	85
Subtotal glossectomy (anterior 2/3rds)	62	0	0	0	0	0	0	0	0	62
Total laryngectomy+Partial pharyngectomy	0	9	43	0	0	0	0	0	0	52
Endoscopic skull base surgery	0	0	0	0	2	49	0	0	0	51
Extended total parotidectomy	0	0	0	0	0	0	0	50	0	50
Total glossectomy	25	0	0	22	0	0	0	0	0	47
Resection of the posterior wall	0	0	0	46	0	0	0	0	0	46
Partial parotidectomy	0	0	0	0	0	0	0	41	0	41
Partial laryngectomy	0	37	2	0	0	0	0	0	0	39
Resection of the l	35	0	0	0	0	0	0	0	0	35
Unilateral resection of the lateral wall of the oropharynx and soft palate	1	0	0	33	1	0	0	0	0	35
Deep lobe resection of the parotid gland	0	0	0	0	0	0	0	35	0	35
Resection of lower gingiva	32	0	0	0	0	0	0	0	0	32
Hypopharyngectomy + Cervical esophagectomy	0	3	28	1	0	0	0	0	0	32
Partial hypopharyngectomy	0	0	31	0	0	0	0	0	0	31
Others	63	30	19	85	16	85	22	26	3	349
Unknown	127	58	84	52	8	16	8	10	6	369
Total	3642	2186	3047	2345	398	483	425	725	136	13387

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

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

Head and Neck Cancer ----- 13390 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	2281	2024	2297	2041	391	386	337	563	131	10451
Free ALT flap	427	17	33	88	1	10	5	39	0	620
Free jejunal flap	1	29	544	15	0	0	0	0	0	589
Unknown	148	66	93	60	6	18	8	14	3	416
Free RA MC flap	255	2	3	56	0	11	46	20	0	393
Free FA flap	142	9	11	25	0	2	8	2	0	199
PM MC flap	51	23	36	28	0	0	1	13	1	153
Others	62	5	7	19	0	18	4	10	0	125
Free fibular OC flap	109	1	0	1	0	1	4	2	0	118
Skin graft	78	0	1	2	0	1	9	1	0	92
Local skin flap	38	8	3	3	0	13	0	9	0	74
Mucosal flap	16	0	2	8	0	23	2	0	0	51
Free nerve graft	0	0	1	0	0	0	0	49	0	50
Free scapular OC flap	28	0	0	0	0	0	1	0	0	29
DP flap	7	2	2	1	0	0	0	3	1	16
Gastric pull-up	0	0	14	0	0	0	0	0	0	14
<b>Total</b>	<b>3643</b>	<b>2186</b>	<b>3047</b>	<b>2347</b>	<b>398</b>	<b>483</b>	<b>425</b>	<b>725</b>	<b>136</b>	<b>13390</b>

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 ----- 13390 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.	1997	1731	2070	1692	383	433	341	325	59	9031
1) Total N.D.	443	85	262	169	2	8	18	85	31	1103
2) Selective N.D.	1059	295	614	423	4	22	56	273	44	2790
3) Lymph node excision	5	2	0	6	1	1	0	21	2	38
8) Others	14	12	16	4	1	2	0	10	0	59
9) Unknown	125	61	85	53	7	17	10	11	0	369
<b>Total</b>	<b>3643</b>	<b>2186</b>	<b>3047</b>	<b>2347</b>	<b>398</b>	<b>483</b>	<b>425</b>	<b>725</b>	<b>136</b>	<b>13390</b>

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.	3031	1863	2328	2166	388	457	406	690	130	11459
1) Total N.D.	60	34	93	27	1	1	3	4	1	224
2) Selective N.D.	407	215	517	92	1	5	3	10	5	1255
3) Lymph node excision	2	0	3	1	0	0	0	2	0	8
8) Others	18	14	21	8	1	3	3	7	0	75
9) Unknown	125	60	85	53	7	17	10	12	0	369
<b>Total</b>	<b>3643</b>	<b>2186</b>	<b>3047</b>	<b>2347</b>	<b>398</b>	<b>483</b>	<b>425</b>	<b>725</b>	<b>136</b>	<b>13390</b>

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	2691	692	1296	863	39	149	73	332	31	6166
1) X-ray (and/or electron beam)	780	1438	1671	1415	347	254	325	336	105	6671
2) Particle beam	12	0	2	4	8	62	19	40	0	147
3) B.T.	24	0	0	1	0	0	0	0	0	25
4) X-ray + Particle beam	2	0	0	2	0	1	0	0	0	5
5) X-ray + B.T.	2	0	0	0	0	0	0	0	0	2
6) Particle beam + B.T.	0	0	0	0	0	0	0	0	0	0
7) X-ray + Particle beam + B.T.	0	0	0	0	0	0	0	0	0	0
8) Others	1	1	0	1	0	0	0	1	0	4
9) Unknown	131	55	78	61	4	17	8	16	0	370
<b>Total</b>	<b>3643</b>	<b>2186</b>	<b>3047</b>	<b>2347</b>	<b>398</b>	<b>483</b>	<b>425</b>	<b>725</b>	<b>136</b>	<b>13390</b>

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	2727	1514	1515	1036	77	260	132	561	55	7877
1) I.V.	589	559	1390	1177	308	191	125	135	79	4553
2) I.A.	49	11	16	40	4	11	146	0	1	278
3) Oral	98	45	39	27	1	1	4	8	1	224
4) I.V.+I.A.	14	0	1	2	2	1	7	0	0	27
5) I.V.+Oral	23	3	13	18	2	2	2	3	0	66
6) I.A.+Oral	11	1	0	0	0	0	2	0	0	14
7) I.V.+I.A.+Oral	1	0	0	1	0	0	0	0	0	2
8) Others	0	0	2	1	0	0	1	2	0	6
9) Unknown	131	53	71	45	4	17	6	16	0	343
<b>Total</b>	<b>3643</b>	<b>2186</b>	<b>3047</b>	<b>2347</b>	<b>398</b>	<b>483</b>	<b>425</b>	<b>725</b>	<b>136</b>	<b>13390</b>

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

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

# Oral Cavity (2020)

3643 Cases

## Primary Site

Site	Number of patients	(%)
1) Lip	35	(1.0)
2) Buccal mucosa	272	(7.5)
3) Retro-molar area	70	(1.9)
4) Lower gingiva	545	(15.0)
5) Upper gingiva	389	(10.7)
6) Hard palate	122	(3.3)
7) Floor of mouth	324	(8.9)
8) Tongue	1873	(51.4)
9) Oral cavity, NOS	13	(0.4)
<b>Total</b>	<b>3643</b>	<b>(100.0)</b>

NOS: not otherwise specified

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	3	0	3
10 - 19	3	2	5
20 - 29	27	22	49
30 - 39	57	48	105
40 - 49	192	132	324
50 - 59	312	187	499
60 - 69	560	235	795
70 - 79	753	409	1162
80 - 89	307	301	608
90 - 99	32	61	93
100 - 109	0	0	0
<b>Total</b>	<b>2246</b>	<b>1397</b>	<b>3643</b>

## Carcinoma of the Lip

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	0	0	0
50 - 59	3	2	5
60 - 69	1	3	4
70 - 79	7	4	11
80 - 89	5	6	11
90 - 99	1	3	4
100 - 109	0	0	0
Total	17	18	35

## 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	1	0	1
30 - 39	0	2	2
40 - 49	10	4	14
50 - 59	23	7	30
60 - 69	38	14	52
70 - 79	59	42	101
80 - 89	24	34	58
90 - 99	5	9	14
100 - 109	0	0	0
Total	160	112	272

## Carcinoma of the Retromolar Area

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	1	2
50 - 59	6	4	10
60 - 69	13	3	16
70 - 79	21	3	24
80 - 89	12	6	18
90 - 99	0	0	0
100 - 109	0	0	0
Total	53	17	70

## Carcinoma of the Lower Gingiva

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	0	0
20 - 29	0	3	3
30 - 39	3	1	4
40 - 49	9	6	15
50 - 59	43	12	55
60 - 69	70	33	103
70 - 79	122	94	216
80 - 89	53	79	132
90 - 99	5	11	16
100 - 109	0	0	0
Total	306	239	545

## Carcinoma of the Upper Gingiva

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	1	1	2
30 - 39	1	1	2
40 - 49	13	7	20
50 - 59	19	14	33
60 - 69	41	29	70
70 - 79	77	63	140
80 - 89	44	56	100
90 - 99	6	16	22
100 - 109	0	0	0
Total	202	187	389

## Carcinoma of the Hard Palate

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	0	0
20 - 29	1	1	2
30 - 39	0	2	2
40 - 49	7	6	13
50 - 59	8	5	13
60 - 69	22	11	33
70 - 79	22	20	42
80 - 89	9	7	16
90 - 99	0	0	0
100 - 109	0	0	0
Total	70	52	122

## Carcinoma of the Floor of Mouth

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	1	1
30 - 39	2	1	3
40 - 49	8	8	16
50 - 59	38	16	54
60 - 69	91	18	109
70 - 79	96	13	109
80 - 89	24	6	30
90 - 99	1	1	2
100 - 109	0	0	0
Total	260	64	324

## Carcinoma of the Tongue

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	3	2	5
20 - 29	24	16	40
30 - 39	51	41	92
40 - 49	143	100	243
50 - 59	171	127	298
60 - 69	279	124	403
70 - 79	345	169	514
80 - 89	136	106	242
90 - 99	14	21	35
100 - 109	0	0	0
110 - 119	0	0	0
Total	1167	706	1873

# 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	1	0	1
50 - 59	1	0	1
60 - 69	5	0	5
70 - 79	4	1	5
80 - 89	0	1	1
90 - 99	0	0	0
100 - 109	0	0	0
<b>Total</b>	<b>11</b>	<b>2</b>	<b>13</b>

NOS : Not Otherwise Specified



# 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	222	61	473	340	59	277	1656	9	3123
S.C.C., keratinizing, NOS	0	13	4	36	8	4	14	95	1	175
Adenoid cystic ca.	3	5	1	2	5	18	9	4	0	47
S.C.C. in situ, NOS	2	8	0	5	6	4	8	61	0	94
Mucoepidermoid ca.	0	5	3	3	5	9	2	3	1	31
S.C.C., large cell, nonkerat., NOS	0	0	0	1	0	0	0	6	0	7
S.C.C., microinvasive	0	0	0	2	1	0	1	4	0	8
Salivary duct ca.	0	1	0	1	0	3	0	0	0	5
S.C.C., spindle cell	0	0	0	0	0	0	0	5	0	5
Myoepithelial ca.	0	0	0	0	0	2	0	0	0	2
Adenocarcinoma, NOS	0	3	0	0	0	0	1	0	0	4
Malig. melanoma, NOS	1	0	0	6	9	7	1	0	0	24
Lymphoepithelial ca.	0	0	0	0	0	0	0	2	0	2
Verrucous ca., NOS	1	5	0	1	0	0	2	18	0	27
Malig. lymphoma, NOS	0	0	0	1	2	2	0	0	0	5
Ca., NOS	0	1	0	5	4	0	2	0	1	13
Acinar cell ca.	0	1	0	0	0	1	0	0	0	2
Liposarcoma, NOS	0	0	0	0	0	1	0	0	0	1
Spindle cell ca., NOS	0	1	0	0	1	0	0	1	0	3
Ca., undiff., NOS	0	1	0	0	0	0	0	0	0	1
Mucinous adenocarcinoma	0	0	0	0	0	1	0	0	0	1
Neoplasm, malig.	1	0	0	1	1	0	1	0	0	4
Ca. ex pleomorphic adenoma	0	1	0	0	0	1	0	0	0	2
Papillary S.C.C.	1	1	0	1	1	0	0	3	0	7
Epithelial-myoepithelial ca.	0	0	0	0	0	2	0	0	0	2
Small cell ca., NOS	0	0	0	0	1	0	0	0	0	1
Basaloid S.C.C.	0	1	0	0	0	0	2	1	0	4
Clear cell ca., NOS	0	0	1	0	0	3	0	1	0	5
Carcinosarcoma, NOS	0	1	0	0	0	0	0	1	0	2
Chondrosarcoma, NOS	0	0	0	0	1	0	0	0	0	1
Adenosquamous ca.	0	0	0	1	2	2	0	5	0	10
Extraskletal Ewing's sarcoma	0	0	0	1	0	0	0	0	0	1
Rhabdomyosarcoma, NOS	0	1	0	0	0	0	0	0	0	1
Spindle cell sarcoma	0	0	0	0	1	0	0	0	0	1
Synovial sarcoma	0	0	0	0	0	0	1	0	0	1
Sarcoma, NOS	0	1	0	0	0	0	0	0	0	1
Clear cell odontogenic ca.	0	0	0	1	0	0	0	0	0	1
Osteosarcoma, NOS	0	0	0	2	0	0	0	0	1	3
S.C.C., HPV negative	0	0	0	0	0	1	0	0	0	1
Intraepithelial ca.	0	0	0	0	0	0	1	4	0	5
Intraepithelial neoplasia, grade III	0	0	0	0	0	0	1	0	0	1
Fibrosarcoma, NOS	0	0	0	0	1	0	1	0	0	2
Malig. teratoma, undiff.	0	0	0	0	0	0	0	1	0	1
Leiomyosarcoma, NOS	0	0	0	2	0	0	0	1	0	3
Alveolar soft part sarcoma	0	0	0	0	0	0	0	1	0	1
Plasmablastic lymphoma	0	0	0	0	0	1	0	0	0	1
Embryonal rhabdomyosarcoma, NOS	0	0	0	0	0	1	0	0	0	1
<b>Total</b>	<b>35</b>	<b>272</b>	<b>70</b>	<b>545</b>	<b>389</b>	<b>122</b>	<b>324</b>	<b>1873</b>	<b>13</b>	<b>3643</b>

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

S.C.C.: squamous cell carcinoma.

malig., Malig.: malignant. kerat.: keratinizing.

nonkerat.: nonkeratinizing.

undiff.: undifferentiated. quest.: questionable.

## T and N Status

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	6	0	0	0	0	0	0	0	0	1	0	7
T1	830	15	1	1	3	4	0	0	8	3	2	867
T2	808	84	2	2	60	13	0	0	19	3	0	991
T3	316(2)	115(3)	1	5	138(3)	33(2)	1	0	24	0	0	633
T4	7	10(1)	2	0	5	1	3	0	0	0	0	28
T4a	335(7)	120(4)	1	4	196(1)	98(7)	3	1	55(4)	4	0	817
T4b	47(3)	13	0	1	45(1)	13(1)	1(1)	0	7(3)	0	1	128
Tis	128	0	0	0	1	0	0	0	0	0	1	130
TX	11	0	0	0	0	0	0	0	1	22	0	34
T-	0	0	0	0	0	0	0	0	0	0	8	8
<b>Total</b>	<b>2488(12)</b>	<b>357(8)</b>	<b>7</b>	<b>13</b>	<b>448(5)</b>	<b>62(10)</b>	<b>8(1)</b>	<b>1</b>	<b>114(7)</b>	<b>33</b>	<b>12</b>	<b>3643</b>

M1:43 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

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	12	0	0	0	0	0	0	0	0	1	0	12
T2	12	2	0	0	0	1	0	0	0	0	0	14
T3	5	0	0	0	1	0	0	0	0	0	0	6
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	0
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	2	0	0	0	0	0	0	0	0	3	0	2
T-	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>32</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>35</b>

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	0	0	0	0	0	0	0	0	0	0	0	0
T1	56	2	0	0	0	0	0	0	1	0	0	59
T2	91	10	0	0	7	0	0	0	1	0	0	109
T3	18	9	0	0	5(1)	1	1	0	4	0	0	38
T4	1	0	0	0	1	0	0	0	0	0	0	2
T4a	12	7	0	0	12	1	0	0	2(1)	0	0	34
T4b	3	1	0	0	7	0	1(1)	0	1	0	0	13
Tis	10	0	0	0	0	0	0	0	0	0	0	10
TX	2	0	0	0	0	0	0	0	0	5	0	7
T-	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>193</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>32(1)</b>	<b>2</b>	<b>2(1)</b>	<b>0</b>	<b>9(1)</b>	<b>0</b>	<b>0</b>	<b>272</b>

M1:3 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 Retromolar Area

### 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	18	0	0	0	0	0	0	0	0	0	0	18
T2	20	0	0	0	1	0	0	0	2	0	0	23
T3	5	3	0	0	2	0	0	0	0	0	0	10
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	7	0	0	0	2	3(1)	0	0	1	0	0	13
T4b	2(1)	1	0	0	1	0	0	0	0	0	0	4
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	2	0	0	0	0	0	0	0	0	0	0	2
T-	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>54(1)</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>3(1)</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>70</b>

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

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

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

## Carcinoma of the 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	52	2	0	1	0	0	0	0	3	1	1	60
T2	82	7	1	0	11	2	0	0	4	1	0	108
T3	12	8	0	1	5	3	0	0	3	0	0	32
T4	2	5(1)	0	0	1	0	0	0	0	0	0	8
T4a	148(2)	38(1)	1	2	61	18(1)	1	0	15(1)	1	0	285
T4b	17	3	0	1	19(1)	3(1)	0	0	0	0	0	43
Tis	7	0	0	0	0	0	0	0	0	0	0	7
TX	0	0	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0	2	2
<b>Total</b>	<b>320(2)</b>	<b>63(2)</b>	<b>2</b>	<b>5</b>	<b>97(1)</b>	<b>26(2)</b>	<b>1</b>	<b>0</b>	<b>25(1)</b>	<b>3</b>	<b>3</b>	<b>545</b>

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

## 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	41	0	0	0	1	0	0	0	0	1	0	43
T2	60	5	0	0	5	0	0	0	2	1	0	73
T3	26	8(3)	0	0	5	1	0	0	1	0	0	41
T4	1	1	1	0	1	0	0	0	0	0	0	4
T4a	85	31(2)	0	0	36	18(1)	0	0	4(1)	3	0	177
T4b	19(2)	4	0	0	11	6	0	0	2(1)	0	0	42
Tis	4	0	0	0	1	0	0	0	0	0	0	5
TX	0	0	0	0	0	0	0	0	0	2	0	2
T-	0	0	0	0	0	0	0	0	0	0	2	2
<b>Total</b>	<b>236(2)</b>	<b>49(5)</b>	<b>1</b>	<b>0</b>	<b>60</b>	<b>25(1)</b>	<b>0</b>	<b>0</b>	<b>9(2)</b>	<b>7</b>	<b>2</b>	<b>389</b>

M1:10 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

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	24	0	0	0	1	0	0	0	1	0	0	26
T2	23	1	0	0	0	0	0	0	0	0	0	24
T3	12	4	0	0	1	2	0	0	0	0	0	19
T4	0	2	1	0	0	0	0	0	0	0	0	3
T4a	23(2)	2	0	0	3	3	0	0	0	0	0	31
T4b	3	1	0	0	2	0	0	0	1(1)	0	1	8
Tis	6	0	0	0	0	0	0	0	0	0	1	7
TX	1	0	0	0	0	0	0	0	0	1	0	2
T-	0	0	0	0	0	0	0	0	0	0	2	2
<b>Total</b>	<b>92(2)</b>	<b>10</b>	<b>1</b>	<b>0</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>2(1)</b>	<b>1</b>	<b>4</b>	<b>122</b>

M1:3 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

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	1	0	0	0	0	0	0	0	0	0	0	1
T1	73	2	1	0	1	2	0	0	2	0	0	81
T2	61	8	0	1	6	6	0	0	5	1	0	88
T3	28(2)	16	0	0	20(1)	10(1)	0	0	5	0	0	79
T4	2	0	0	0	1	0	1	0	0	0	0	4
T4a	14(1)	10	0	0	12	15(1)	0	0	7(1)	0	0	58
T4b	0	0	0	0	0	0	0	0	1	0	0	1
Tis	8	0	0	0	0	0	0	0	0	0	0	8
TX	0	0	0	0	0	0	0	0	1	2	0	3
T-	0	0	0	0	0	0	0	0	0	0	1	1
<b>Total</b>	<b>187(3)</b>	<b>36</b>	<b>1</b>	<b>1</b>	<b>40(1)</b>	<b>33(2)</b>	<b>1</b>	<b>0</b>	<b>21(1)</b>	<b>3</b>	<b>1</b>	<b>324</b>

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 Tongue T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	5	0	0	0	0	0	0	0	0	1	0	6
T1	553	9	0	0	0	2	0	0	1	1	1	567
T2	459	51	1	1	30	5	0	0	5	0	0	552
T3	207	67	1	4	99	16	0	0	11	0	0	405
T4	1	2	0	0	1	1	2	0	0	0	0	7
T4a	43(2)	31(1)	0	2	69(1)	39(1)	2	1	26	0	0	213
T4b	1	2(1)	0	0	5	4	0	0	2	0	0	14
Tis	92	0	0	0	0	0	0	0	0	0	0	92
TX	4	0	0	0	0	0	0	0	0	12	0	16
T-	0	0	0	0	0	0	0	0	0	0	1	1
<b>Total</b>	<b>1365</b>	<b>162</b>	<b>2</b>	<b>7</b>	<b>204</b>	<b>67</b>	<b>4</b>	<b>1</b>	<b>45</b>	<b>14</b>	<b>2</b>	<b>1873</b>

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 Oral Cavity, NOS T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	1	0	0	0	0	0	0	0	0	0	0	1
T2	0	0	0	0	0	0	0	0	0	0	0	0
T3	3	0	0	0	0	0	0	0	0	0	0	3
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	3	1	0	0	1	1	0	0	0	0	0	6
T4b	2	1	0	0	0	0	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	0
T-	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>

NOS : Not Otherwise Specified

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

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

## Treatment Method for the Primary Lesion by Subsite

Treatment Method	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Surgery										
without	2	38	12	80	86	24	43	128	4	417
with	32	224	58	451	283	95	271	1684	9	3107
unknown	1	10	0	14	20	3	10	61	0	119
Radiotherapy										
without	32	207	49	406	238	83	229	1516	6	2766
with	2	55	21	125	131	36	85	296	7	758
unknown	1	10	0	14	20	3	10	61	0	119
Chemotherapy										
without	33	215	51	396	258	93	228	1507	8	2789
with	1	47	19	135	111	26	86	305	5	735
unknown	1	10	0	14	20	3	10	61	0	119
<b>Total</b>	<b>35</b>	<b>272</b>	<b>70</b>	<b>545</b>	<b>389</b>	<b>122</b>	<b>324</b>	<b>1873</b>	<b>13</b>	<b>3643</b>

NOS: not otherwise specified.

## Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	(1) Lip	(2) Buccal mucosa	(3) Retromolar area	(4) Lower gingiva	(5) Upper gingiva	(6) Hard palate	(7) Floor of mouth	(8) Tongue	(9) Oral cavity, NOS	Total
Surgery										
without	29	168	42	211	229	85	149	1064	7	1984
with	5	94	28	319	140	33	165	748	6	1538
unknown	1	10	0	15	20	4	10	61	0	121
Radiotherapy										
without	34	216	56	426	271	99	236	1526	9	2873
with	0	46	14	104	98	19	78	286	4	649
unknown	1	10	0	15	20	4	10	61	0	121
Chemotherapy										
without	34	228	55	422	286	98	238	1531	9	2901
with	0	34	15	108	83	20	76	281	4	621
unknown	1	10	0	15	20	4	10	61	0	121
Total	35	272	70	545	389	122	324	1873	13	3643

NOS: not otherwise specified.



## 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	1	7	2	20	19	4	11	31	1	96
A) Surg. alone	27	182	41	319	192	68	190	1368	5	2392
A)F) Surg.->(Rad.+Chem.)	0	10	4	33	23	5	29	95	0	199
A)B) Surg.->Rad.	1	9	4	23	17	11	16	62	0	143
C)A) Chem.->Surg.	0	9	3	27	11	2	10	53	0	115
B) Rad. alone	0	12	3	19	22	7	7	28	1	99
F)(Rad.+Chem.)	1	8	5	11	21	8	8	25	2	89
C) Chem. alone	0	4	2	13	7	4	10	22	0	62
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	1	10	5	2	6	21	2	47
A)C) Surg.->Chem	0	3	0	5	4	2	3	19	0	36
A)A) Surg.->Surg.	4	1	1	5	3	1	2	11	0	28
C)F) Chem. -> (Rad.+Chem.)	0	5	0	4	9	0	3	6	0	27
C)A)C) Chem.->Surg.->Chem.	0	1	0	7	0	0	2	7	0	17
F)A) (Rad.+Chem.)->Surg.	0	0	0	1	12	0	1	1	0	15
C)A)B) Chem.->Surg.->Rad.	0	2	0	3	1	0	3	5	0	14
A)F)C) Surg.->(Rad.+Chem.)->Chem.	0	0	0	0	1	0	2	9	0	12
Other	0	9	4	31	22	5	11	49	2	133
Unknown	1	10	0	14	20	3	10	61	0	119
<b>Total</b>	<b>35</b>	<b>272</b>	<b>70</b>	<b>545</b>	<b>389</b>	<b>122</b>	<b>324</b>	<b>1873</b>	<b>13</b>	<b>3643</b>

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
No surgery	2	37	12	77	85	24	42	127	4	410
Partial glossectomy	0	1	1	0	3	0	3	1182	0	1190
Segmental mandibulectomy	0	8	9	221	1	1	17	1	6	264
Partial maxillectomy	0	3	2	3	201	31	0	0	0	240
Subtotal glossectomy	0	0	0	0	0	0	16	194	1	211
Resection of the floor of mouth	0	1	0	1	1	1	203	1	0	208
Resection of the buccal mucosa	0	181	23	0	3	0	0	0	0	207
Marginal mandibulectomy	0	12	7	149	0	0	6	3	0	177
Hemiglossectomy	0	0	0	0	0	0	3	124	0	127
Resection of oral cavity, NOS	1	12	13	4	27	45	12	2	1	117
Hemiglossectomy (anterior 2/3rds)	0	0	0	0	0	0	1	84	0	85
Subtotal glossectomy (anterior 2/3rds)	0	0	0	1	0	0	3	58	0	62
Total maxillectomy	0	0	0	0	33	6	0	0	0	39
Resection of the lip	31	4	0	0	0	0	0	0	0	35
Resection of lower gingiva	0	0	2	30	0	0	0	0	0	32
Unknown	1	11	0	17	21	4	11	62	0	127
Others	0	2	1	42	14	10	6	35	1	111
<b>Total</b>	<b>35</b>	<b>272</b>	<b>70</b>	<b>545</b>	<b>389</b>	<b>122</b>	<b>323</b>	<b>1873</b>	<b>13</b>	<b>3642</b>

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

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	22	162	46	247	260	88	158	1293	5	2281
E) Free ALT flap	1	27	11	57	21	8	60	241	1	427
D) Free RA MC flap	0	13	5	47	28	6	24	129	3	255
C) Free FA flap	0	17	0	8	7	4	27	79	0	142
G) Free fibular OC flap	0	0	2	92	2	1	10	0	2	109
1) Skin graft	0	15	3	9	26	1	9	15	0	78
5) PM MC flap	0	3	0	19	0	1	9	18	1	51
2) Local skin flap	11	8	2	4	5	1	4	3	0	38
F) Free scapular OC flap	0	1	1	21	0	1	2	2	0	28
3) Mucosal flap	0	6	0	4	0	1	2	3	0	16
4) DP flap	0	2	0	1	1	1	0	2	0	7
B) Free jejunal flap	0	0	0	0	0	1	0	0	0	1
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	5	0	16	10	4	5	21	1	62
9) Unknown	1	13	0	20	29	4	14	67	0	148
<b>Total</b>	<b>35</b>	<b>272</b>	<b>70</b>	<b>545</b>	<b>389</b>	<b>122</b>	<b>324</b>	<b>1873</b>	<b>13</b>	<b>3643</b>

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.	28	169	42	210	231	86	149	1075	7	1997
1) Total N.D.	0	25	7	81	48	13	51	218	0	443
2) Selective N.D.	5	65	21	234	89	19	112	508	6	1059
3) Lymph node excision	0	1	0	3	0	0	0	1	0	5
8) Others	1	2	0	0	1	1	1	8	0	14
9) Unknown	1	10	0	17	20	3	11	63	0	125
Total	35	272	70	545	389	122	324	1873	13	3643

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.	30	254	68	447	333	108	208	1571	12	3031
1) Total N.D.	0	0	0	9	7	2	8	34	0	60
2) Selective N.D.	3	6	2	69	28	8	96	194	1	407
3) Lymph node excision	0	0	0	2	0	0	0	0	0	2
8) Others	1	2	0	1	1	1	1	11	0	18
9) Unknown	1	10	0	17	20	3	11	63	0	125
Total	35	272	70	545	389	122	324	1873	13	3643

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

## 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	32	201	49	394	227	78	225	1479	6	2691
1) X-ray (and/or electron beam)	2	56	21	128	140	37	83	307	6	780
2) Particle beam	0	0	0	2	2	2	2	3	1	12
3) B.T.	0	3	0	3	0	0	2	16	0	24
4) X-ray + Particle beam	0	0	0	0	0	1	1	0	0	2
5) X-ray + B.T.	0	0	0	0	0	0	0	2	0	2
6) Particle beam + B.T.	0	0	0	0	0	0	0	0	0	0
7) X-ray + Particle beam + B.T.	0	0	0	0	0	0	0	0	0	0
8) Others	0	0	0	1	0	0	0	0	0	1
9) Unknown	1	12	0	17	20	4	11	66	0	131
<b>Total</b>	<b>35</b>	<b>272</b>	<b>70</b>	<b>545</b>	<b>389</b>	<b>122</b>	<b>324</b>	<b>1873</b>	<b>13</b>	<b>3643</b>

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	33	210	50	386	254	90	224	1472	8	2727
1) I.V.	0	35	16	101	78	21	78	256	4	589
2) I.A.	0	5	1	2	23	2	0	16	0	49
3) Oral	0	8	0	27	7	3	6	47	0	98
4) I.V.+I.A.	0	2	0	2	4	0	0	6	0	14
5) I.V.+Oral	0	0	2	7	2	0	2	10	0	23
6) I.A.+Oral	1	1	1	3	1	1	2	0	1	11
7) I.V.+I.A.+Oral	0	0	0	0	0	0	0	1	0	1
8) Others	0	0	0	0	0	0	0	0	0	0
9) Unknown	1	11	0	17	20	5	12	65	0	131
<b>Total</b>	<b>35</b>	<b>272</b>	<b>70</b>	<b>545</b>	<b>389</b>	<b>122</b>	<b>324</b>	<b>1873</b>	<b>13</b>	<b>3643</b>

NOS: not otherwise specified. I.V.: intravenous. I.A.: intraarterial

Larynx (2020)

2186 Cases

## Primary Site

Site	Number of patients	(%)
Glottis	1450	(66.3)
Supraglottis	622	(28.5)
Subglottis	82	(3.8)
Larynx, NOS	32	(1.5)
<b>Total</b>	<b>2186</b>	<b>(100)</b>

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	1	1
30 - 39	4	1	5
40 - 49	39	9	48
50 - 59	161	31	192
60 - 69	591	57	648
70 - 79	854	89	943
80 - 89	291	32	323
90 - 99	22	4	26
100 - 109	0	0	0
<b>Total</b>	<b>1962</b>	<b>224</b>	<b>2186</b>

## Glottis Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	4	0	4
40 - 49	23	3	26
50 - 59	108	16	124
60 - 69	387	29	416
70 - 79	580	45	625
80 - 89	213	20	233
90 - 99	18	4	22
100 - 109	0	0	0
<b>Total</b>	<b>1333</b>	<b>117</b>	<b>1450</b>

## Supraglottis Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	1	1
30 - 39	0	0	0
40 - 49	13	6	19
50 - 59	46	14	60
60 - 69	164	26	190
70 - 79	238	41	279
80 - 89	59	11	70
90 - 99	3	0	3
100 - 109	0	0	0
<b>Total</b>	<b>523</b>	<b>99</b>	<b>622</b>



## Subglottis Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	1	1
40 - 49	2	0	2
50 - 59	4	1	5
60 - 69	30	2	32
70 - 79	26	1	27
80 - 89	13	1	14
90 - 99	1	0	1
100 - 109	0	0	0
<b>Total</b>	<b>76</b>	<b>6</b>	<b>82</b>

## Carcinoma of the Larynx, NOS Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	1	0	1
50 - 59	3	0	3
60 - 69	10	0	10
70 - 79	10	2	12
80 - 89	6	0	6
90 - 99	0	0	0
100 - 109	0	0	0
<b>Total</b>	<b>30</b>	<b>2</b>	<b>32</b>

NOS: not otherwise specified

Carcinoma of the Larynx ----- 2186cases

## 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	1310	556	75	26	1967
S.C.C., keratinizing, NOS	41	23	3	0	67
Adenoid cystic ca.	0	4	2	1	7
S.C.C. in situ, NOS	54	10	0	2	66
S.C.C., large cell, nonkerat., NOS	1	4	0	0	5
S.C.C., microinvasive	3	1	0	0	4
Salivary duct ca.	0	1	0	0	1
S.C.C., spindle cell	4	0	0	0	4
Adenocarcinoma, NOS	0	3	0	0	3
Lymphoepithelial ca.	0	1	0	0	1
Verrucous ca., NOS	6	0	0	0	6
Ca., NOS	4	6	0	0	10
Liposarcoma, NOS	0	0	0	1	1
Spindle cell ca., NOS	11	4	0	0	15
Neoplasm, malig.	1	2	0	0	3
Ca. ex pleomorphic adenoma	1	0	0	0	1
Papillary S.C.C.	3	0	0	0	3
Small cell ca., NOS	0	2	0	0	2
Basaloid S.C.C.	0	1	0	0	1
Transitional cell ca., NOS	0	1	0	0	1
Carcinoid tumor, NOS	0	1	0	0	1
Carcinosarcoma, NOS	1	0	1	1	3
Chondrosarcoma, NOS	0	0	1	1	2
Adenosquamous ca.	2	0	0	0	2
S.C.C. in situ with quest. stromal invasion	2	0	0	0	2
S.C.C., nonkerat.	0	1	0	0	1
Rhabdomyosarcoma, NOS	0	1	0	0	1
S.C.C., HPV negative	2	0	0	0	2
Intraepithelial ca.	1	0	0	0	1
Intraepithelial neoplasia, grade III	1	0	0	0	1
Malig. fibrous histiocyto	1	0	0	0	1
Undiff. pleomorphic sarcoma	1	0	0	0	1
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

NOS: not otherwise specified.

malig., Malig.: malignant.

undiff.: undifferentiated.

ca., Ca.: carcinoma.

kerat.: keratinizing.

HPV : Human papillomavirus.

S.C.C.: squamous cell carcinoma.

nonkerat.: nonkeratinizing

## T and N Status

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	4	0	0	0	0	0	0	0	0	0	1	5
T1	122	5	0	0	4(1)	3	1	0	3	0	1	139
T1a	483	0	0	0	1	0	0	0	1	3	0	488
T1b	147	0	0	0	0	0	0	0	0	0	0	147
T2	459(1)	38	3	2	31	26(3)	0	0	13(3)	0	0	572
T3	361(2)	44(2)	3(1)	2	54(1)	40(2)	0	0	17(3)	0	0	521
T4	7	2	0	0	1	3	1	0	1	0	0	15
T4a	103(1)	26(1)	0	1	28(1)	33(2)	1	0	8(3)	0	1	201
T4b	0	0	0	0	0	1	1	0	2	0	0	4
Tis	77	0	0	0	0	0	0	0	1	0	0	78
TX	3(1)	0	0	0	1	1	0	0	0	9	0	14
T-	0	0	0	0	0	0	0	0	0	0	2	2
<b>Total</b>	<b>1766</b>	<b>115</b>	<b>6</b>	<b>5</b>	<b>120</b>	<b>107</b>	<b>4</b>	<b>0</b>	<b>46</b>	<b>12</b>	<b>5</b>	<b>2186</b>

M1:28 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	3	0	0	0	0	0	0	0	0	0	1	4
T1	33	0	0	0	1(1)	0	0	0	0	0	1	35
T1a	472	0	0	0	1	0	0	0	1	3	0	477
T1b	145	0	0	0	0	0	0	0	0	0	0	145
T2	320	12	2	0	4	4	0	0	1	0	0	343
T3	242	20	1	1	11	5	0	0	3	0	0	283
T4	4	1	0	0	1	0	0	0	0	0	0	6
T4a	58	10(1)	0	1	6	9(1)	0	0	1	0	0	85
T4b	0	0	0	0	0	1	1	0	0	0	0	2
Tis	60	0	0	0	0	0	0	0	0	0	0	60
TX	0	0	0	0	0	0	0	0	0	9	0	9
T-	0	0	0	0	0	0	0	0	0	0	1	1
<b>Total</b>	<b>1337</b>	<b>43</b>	<b>3</b>	<b>2</b>	<b>24</b>	<b>19</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>12</b>	<b>3</b>	<b>1450</b>

M1:3 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	0	0	0	0	0	0	0	0	0	0	0	0
T1	84	5	0	0	2	3	0	0	3	0	0	97
T1a	4	0	0	0	0	0	0	0	0	0	0	4
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	107	23	1	2	27	21(2)	0	0	12(3)	0	0	193
T3	104(2)	23(2)	1(1)	1	40(1)	33(2)	0	0	13(3)	0	0	215
T4	1	1	0	0	0	3	1	0	1	0	0	7
T4a	23(1)	13	0	0	20(1)	19	1	0	7(3)	1	1	84
T4b	0	0	0	0	0	0	0	0	2	0	0	2
Tis	16	0	0	0	0	0	0	0	1	0	0	17
TX	0	0	0	0	1	1	0	0	0	1	0	2
T-	0	0	0	0	0	0	0	0	0	0	1	1
<b>Total</b>	<b>339</b>	<b>65</b>	<b>2</b>	<b>3</b>	<b>90</b>	<b>80</b>	<b>2</b>	<b>0</b>	<b>39</b>	<b>2</b>	<b>2</b>	<b>622</b>

M1:21 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	2	0	0	0	1	0	0	0	0	0	0	3
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	29(1)	2	0	0	0	1(1)	0	0	0	0	0	32
T3	13	1	0	0	1	0	0	0	0	0	0	15
T4	2	0	0	0	0	0	0	0	0	0	0	2
T4a	21	1	0	0	1	5(1)	0	0	0	0	0	28
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	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
<b>Total</b>	<b>69</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>82</b>

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

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

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

## Carcinoma of the Larynx, NOS T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	0	0	1
T1	3	0	0	0	0	0	1	0	0	0	0	4
T1a	6	0	0	0	0	0	0	0	0	0	0	6
T1b	2	0	0	0	0	0	0	0	0	0	0	2
T2	3	1	0	0	0	0	0	0	0	0	0	4
T3	2	0	1	0	2	2	0	0	1	0	0	8
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	1	2	0	0	1	0	0	0	0	0	0	4
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	2(1)	0	0	0	0	0	0	0	0	0	0	2
T-	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>21</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>32</b>

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	949	327	42	8	1326
with	476	281	40	24	821
unknown	25	14	0	0	39
Radiotherapy					
without	404	238	38	19	699
with	1021	370	44	13	1448
unknown	25	14	0	0	39
Chemotherapy					
without	1122	326	49	27	1524
with	303	282	33	5	623
unknown	25	14	0	0	39
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

NOS : Not Otherwise Specified

## 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	18	16	2	1	37
B) Rad. alone	680	91	13	5	789
A) Surg. alone	379	191	31	18	619
F)(Rad.+Chem.)	231	169	24	2	426
A)B) Surg.->Rad.	36	24	2	3	65
A)F) Surg.->(Rad.+Chem.)	18	25	0	0	43
C)F) Chem. -> (Rad.+Chem.)	8	25	2	0	35
C) Chem. alone	5	15	1	0	21
C)A) Chem.->Surg.	3	5	3	1	12
F)A)(Rad.+Chem.)->Surg.	5	7	0	0	12
B)A) Rad.->Surg.	10	0	0	0	10
B)B)B) Rad.-> Rad.-> Rad.	8	0	1	1	10
Other	24	40	3	1	68
Unknown	25	14	0	0	39
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

NOS : Not Otherwise Specified

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Carcinoma of the Larynx ----- 2186cases

## Treatment Method for the Primary Lesion by T Classification

Treatment Method	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
<b>Surgery</b>													
without	0	71	337	125	456	245	7	55	3	23	4	0	1326
with	5	64	147	22	108	265	8	137	1	53	10	1	821
unknown	0	4	4	0	8	11	0	9	0	2	0	1	39
<b>Radiotherapy</b>													
without	4	63	126	16	91	212	8	122	1	48	8	0	699
with	1	72	358	131	473	298	7	70	3	28	6	1	1448
unknown	0	4	4	0	8	11	0	9	0	2	0	1	39
<b>Chemotherapy</b>													
without	4	110	462	135	299	282	8	136	2	75	11	0	1524
with	1	25	22	12	265	228	7	56	2	1	3	1	623
unknown	0	4	4	0	8	11	0	9	0	2	0	1	39
<b>Total</b>	<b>5</b>	<b>139</b>	<b>488</b>	<b>147</b>	<b>572</b>	<b>521</b>	<b>15</b>	<b>201</b>	<b>4</b>	<b>78</b>	<b>14</b>	<b>2</b>	<b>2186</b>

NOS : Not Otherwise Specified

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

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

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	2	1	1	10	8	1	11	1	0	2	0	37
B) Rad. alone	0	47	322	114	209	62	1	9	0	22	2	1	789
A) Surg. alone	5	56	126	15	69	185	6	101	0	49	7	0	619
F)(Rad.+Chem.)	0	18	13	10	215	153	3	13	1	0	0	0	426
A)B) Surg.->Rad.	0	2	11	3	10	23	0	11	1	3	1	0	65
A)F) Surg.->(Rad.+Chem.)	0	3	1	1	11	16	0	9	0	0	2	0	43
C)F) Chem. -> (Rad.+Chem.)	0	0	0	0	9	12	2	12	0	0	0	0	35
C) Chem. alone	0	2	0	0	8	6	1	4	0	0	0	0	21
C)A) Chem.->Surg.	0	1	0	0	2	6	0	3	0	0	0	0	12
F)A)(Rad.+Chem.)->Surg.	0	0	1	0	5	5	0	1	0	0	0	0	12
B)A) Rad.->Surg.	0	0	2	2	1	4	0	1	0	0	0	0	10
B)B)B) Rad.-> Rad.-> Rad.	0	1	3	1	3	0	0	1	0	1	0	0	10
Other	0	3	4	0	12	30	1	16	1	1	0	0	68
Unknown	0	4	4	0	8	11	0	9	0	2	0	1	39
<b>Total</b>	<b>5</b>	<b>139</b>	<b>488</b>	<b>147</b>	<b>572</b>	<b>521</b>	<b>15</b>	<b>201</b>	<b>4</b>	<b>78</b>	<b>14</b>	<b>2</b>	<b>2186</b>

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



**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
<b>Surgery</b>													
without	0	23	331	124	292	137	2	15	1	22	2	0	949
with	4	12	142	21	47	138	4	63	1	36	7	1	476
unknown	0	0	4	0	4	8	0	7	0	2	0	0	25
<b>Radiotherapy</b>													
without	3	12	121	16	39	115	4	57	0	32	5	0	404
with	1	23	352	129	300	160	2	21	2	26	4	1	1021
unknown	0	0	4	0	4	8	0	7	0	2	0	0	25
<b>Chemotherapy</b>													
without	3	32	451	133	211	161	4	61	1	58	7	0	1122
with	1	3	22	12	128	114	2	17	1	0	2	1	303
unknown	0	0	4	0	4	8	0	7	0	2	0	0	25
<b>Total</b>	<b>4</b>	<b>35</b>	<b>477</b>	<b>145</b>	<b>343</b>	<b>283</b>	<b>6</b>	<b>85</b>	<b>2</b>	<b>60</b>	<b>9</b>	<b>1</b>	<b>1450</b>

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

**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	1	1	6	3	0	6	0	0	0	0	18
B) Rad. alone	0	18	316	113	170	38	0	1	0	21	2	1	680
A) Surg. alone	4	10	121	15	32	109	4	47	0	32	5	0	379
F)(Rad.+Chem.)	0	2	13	10	110	91	0	4	1	0	0	0	231
A)B) Surg.->Rad.	0	2	11	2	3	8	0	6	1	3	0	0	36
A)F) Surg.->(Rad.+Chem.)	0	0	1	1	5	5	0	4	0	0	2	0	18
B)A) Rad.->Surg.	0	0	2	2	1	4	0	1	0	0	0	0	10
Other	0	2	8	1	12	17	2	9	0	2	0	0	53
Unknown	0	0	4	0	4	8	0	7	0	2	0	0	25
<b>Total</b>	<b>4</b>	<b>35</b>	<b>477</b>	<b>145</b>	<b>343</b>	<b>283</b>	<b>6</b>	<b>85</b>	<b>2</b>	<b>60</b>	<b>9</b>	<b>1</b>	<b>1450</b>

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

**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
<b>Surgery</b>													
without	0	45	2	0	135	104	4	33	2	1	1	0	327
with	0	48	2	0	54	108	3	49	0	16	1	0	281
unknown	0	4	0	0	4	3	0	2	0	0	0	1	14
<b>Radiotherapy</b>													
without	0	47	2	0	44	82	3	42	1	16	1	0	238
with	0	46	2	0	145	130	4	40	1	1	1	0	370
unknown	0	4	0	0	4	3	0	2	0	0	0	1	14
<b>Chemotherapy</b>													
without	0	73	4	0	74	102	3	51	1	17	1	0	326
with	0	20	0	0	115	110	4	31	1	0	1	0	282
unknown	0	4	0	0	4	3	0	2	0	0	0	1	14
<b>Total</b>	<b>0</b>	<b>97</b>	<b>4</b>	<b>0</b>	<b>193</b>	<b>215</b>	<b>7</b>	<b>84</b>	<b>2</b>	<b>17</b>	<b>2</b>	<b>1</b>	<b>622</b>

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

**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	3	5	1	4	1	0	1	0	16
A) Surg. alone	0	43	2	0	32	62	1	34	0	16	1	0	191
F)(Rad.+Chem.)	0	15	0	0	85	60	2	7	0	0	0	0	169
B) Rad. alone	0	27	2	0	32	21	1	7	0	1	0	0	91
A)F) Surg. ->(Rad.+Chem.)	0	3	0	0	6	11	0	5	0	0	0	0	25
C)F) Chem. -> (Rad.+Chem.)	0	0	0	0	7	9	0	9	0	0	0	0	25
A)B) Surg. ->Rad.	0	0	0	0	7	13	0	4	0	0	0	0	24
C) Chem. alone	0	1	0	0	6	4	1	3	0	0	0	0	15
Other	0	3	0	0	11	27	1	9	1	0	0	0	52
Unknown	0	4	0	0	4	3	0	2	0	0	0	1	14
<b>Total</b>	<b>0</b>	<b>97</b>	<b>4</b>	<b>0</b>	<b>193</b>	<b>215</b>	<b>7</b>	<b>84</b>	<b>2</b>	<b>17</b>	<b>2</b>	<b>1</b>	<b>622</b>

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

**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
<b>Surgery</b>													
without	0	3	1	0	26	4	1	7	0	0	0	0	42
with	0	0	0	0	6	11	1	21	0	0	1	0	40
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Radiotherapy</b>													
without	0	0	0	0	7	10	1	20	0	0	0	0	38
with	0	3	1	0	25	5	1	8	0	0	1	0	44
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Chemotherapy</b>													
without	0	2	1	0	11	13	1	20	0	0	1	0	49
with	0	1	0	0	21	2	1	8	0	0	0	0	33
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>32</b>	<b>15</b>	<b>2</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>82</b>

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

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

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
A) Surg. alone	0	0	0	0	4	9	1	17	0	0	0	0	31
F)(Rad.+Chem.)	0	1	0	0	19	1	1	2	0	0	0	0	24
B) Rad. alone	0	2	1	0	6	3	0	1	0	0	0	0	13
Other	0	0	0	0	3	2	0	8	0	0	1	0	14
<b>Total</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>32</b>	<b>15</b>	<b>2</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>82</b>

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

**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
<b>Surgery</b>													
without	0	0	3	1	3	0	0	0	0	0	1	0	8
with	1	4	3	1	1	8	0	4	0	1	1	0	24
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Radiotherapy</b>													
without	1	4	3	0	1	5	0	3	0	0	2	0	19
with	0	0	3	2	3	3	0	1	0	1	0	0	13
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Chemotherapy</b>													
without	1	3	6	2	3	6	0	4	0	0	2	0	27
with	0	1	0	0	1	2	0	0	0	1	0	0	5
unknown	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>32</b>

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

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

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
A) Surg. alone	1	3	3	0	1	5	0	3	0	1	1	0	18
B) Rad. alone	0	0	3	1	1	0	0	0	0	0	0	0	5
A)B) Surg.->Rad.	0	0	0	1	0	1	0	1	0	0	0	0	3
Other	0	1	0	0	2	2	0	0	0	0	1	0	6
<b>Total</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>32</b>

NOS : Not Otherwise Specified

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



## 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
No surgery	951	327	42	8	1328
Total laryngectomy	198	155	34	13	400
Transoral resection	167	44	0	1	212
Endoscopic resection	47	30	1	3	81
Partial laryngectomy	25	11	1	0	37
Others	27	34	3	6	70
Unknown	35	21	1	1	58
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

NOS : Not Otherwise Specified

## Surgical Methods for the Primary Lesion by T Classification

Surgical method	<b>T0</b>	<b>T1</b>	<b>T1a</b>	<b>T1b</b>	<b>T2</b>	<b>T3</b>	<b>T4</b>	<b>T4a</b>	<b>T4b</b>	<b>Tis</b>	<b>TX</b>	<b>T-</b>	<b>Total</b>
No surgery	0	71	337	127	456	245	7	55	3	23	4	0	1328
Total laryngectomy	0	6	3	2	40	222	7	120	0	0	0	0	400
Transoral resection	3	29	94	8	30	7	0	0	0	36	5	0	212
Endoscopic resection	1	22	27	4	6	2	0	0	0	17	2	0	81
Partial laryngectomy	0	5	7	4	13	7	0	1	0	0	0	0	37
Others	1	2	12	1	12	23	0	16	1	0	2	0	70
Unknown	0	4	8	1	15	15	1	9	0	2	1	2	58
<b>Total</b>	<b>5</b>	<b>139</b>	<b>488</b>	<b>147</b>	<b>572</b>	<b>521</b>	<b>15</b>	<b>201</b>	<b>4</b>	<b>78</b>	<b>14</b>	<b>2</b>	<b>2186</b>

T-: not within defined T classification or 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
No surgery	0	23	331	126	292	137	2	15	1	22	2	0	951
Total laryngectomy	0	1	1	2	12	121	4	57	0	0	0	0	198
Transoral resection	3	6	92	8	18	6	0	0	0	29	5	0	167
Endoscopic resection	1	3	26	4	3	1	0	0	0	7	2	0	47
Partial laryngectomy	0	1	7	4	6	6	0	1	0	0	0	0	25
Laryngectomy, other type	0	1	8	0	2	1	0	1	0	0	0	0	13
Total pharyngolaryngectomy	0	0	1	0	0	1	0	1	0	0	0	0	3
Subtotal laryngectomy	0	0	1	0	1	0	0	1	0	0	0	0	3
Hypopharyngectomy + Cervical esophagectomy	0	0	0	0	0	1	0	0	1	0	0	0	2
Total laryngectomy+Partial pharyngectomy	0	0	0	0	0	0	0	1	0	0	0	0	1
Total pharyngolaryngo-esophagectomy	0	0	0	0	1	0	0	0	0	0	0	0	1
Others	0	0	2	0	1	0	0	1	0	0	0	0	4
Unknown	0	0	8	1	7	9	0	7	0	2	0	1	35
<b>Total</b>	<b>4</b>	<b>35</b>	<b>477</b>	<b>145</b>	<b>343</b>	<b>283</b>	<b>6</b>	<b>85</b>	<b>2</b>	<b>60</b>	<b>9</b>	<b>1</b>	<b>1450</b>

T-: not within defined T classification or 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
No surgery	0	45	2	0	135	104	4	33	2	1	1	0	327
Total laryngectomy	0	3	0	0	24	85	2	41	0	0	0	0	155
Transoral resection	0	22	2	0	12	1	0	0	0	7	0	0	44
Endoscopic resection	0	18	0	0	2	1	0	0	0	9	0	0	30
Total pharyngolaryngectomy	0	0	0	0	3	5	0	5	0	0	0	0	13
Partial laryngectomy	0	4	0	0	6	1	0	0	0	0	0	0	11
Total laryngectomy+Partial pharyngectomy	0	0	0	0	1	6	0	1	0	0	0	0	8
Subtotal laryngectomy	0	0	0	0	0	3	0	0	0	0	0	0	3
Laryngectomy, other type	0	0	0	0	2	1	0	0	0	0	0	0	3
Total pharyngolaryngo-esophagectomy	0	0	0	0	0	2	0	0	0	0	0	0	2
Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	0	0	0	0	0	1	0	0	0	0	0	0	1
Hypopharyngectomy + Cervical esophagectomy	0	0	0	0	1	0	0	0	0	0	0	0	1
Others	0	1	0	0	0	0	0	2	0	0	0	0	3
Unknown	0	4	0	0	7	5	1	2	0	0	1	1	21
<b>Total</b>	<b>0</b>	<b>97</b>	<b>4</b>	<b>0</b>	<b>193</b>	<b>215</b>	<b>7</b>	<b>84</b>	<b>2</b>	<b>17</b>	<b>2</b>	<b>1</b>	<b>622</b>

T-: not within defined T classification or 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
No surgery	0	3	1	0	26	4	1	7	0	0	0	0	42
Total laryngectomy	0	0	0	0	3	11	1	19	0	0	0	0	34
Total pharyngolaryngectomy	0	0	0	0	0	0	0	2	0	0	0	0	2
Total pharyngolaryngo-esophagectomy	0	0	0	0	0	0	0	0	0	0	1	0	1
Endoscopic resection	0	0	0	0	1	0	0	0	0	0	0	0	1
Partial laryngectomy	0	0	0	0	1	0	0	0	0	0	0	0	1
Unknown	0	0	0	0	1	0	0	0	0	0	0	0	1
<b>Total</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>32</b>	<b>15</b>	<b>2</b>	<b>28</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>82</b>

T-: not within defined T classification or 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
No surgery	0	0	3	1	3	0	0	0	0	0	1	0	8
Total laryngectomy	0	2	2	0	1	5	0	3	0	0	0	0	13
Endoscopic resection	0	1	1	0	0	0	0	0	0	1	0	0	3
Laryngectomy, other type	1	0	0	1	0	0	0	0	0	0	1	0	3
Total pharyngolaryngectomy	0	0	0	0	0	2	0	0	0	0	0	0	2
Total pharyngolaryngo-esophagectomy	0	0	0	0	0	0	0	1	0	0	0	0	1
Transoral resection	0	1	0	0	0	0	0	0	0	0	0	0	1
Unknown	0	0	0	0	0	1	0	0	0	0	0	0	1
<b>Total</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>32</b>

NOS: not otherwise specified.

T-: not within defined T classification or 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	1248	412	52	14	1726
with	165	192	29	17	403
unknown	37	18	1	1	57
Radiotherapy					
without	1187	340	59	24	1610
with	226	264	22	7	519
unknown	37	18	1	1	57
Chemotherapy					
without	1278	386	60	27	1751
with	135	218	21	4	378
unknown	37	18	1	1	57
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

NOS: not otherwise specified.

## 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.	1251	413	52	15	1731
1) Total N.D.	21	56	4	4	85
2) Selective N.D.	130	132	25	8	295
3) Lymph node excision	2	0	0	0	2
8) Others	6	2	0	4	12
9) Unknown	40	19	1	1	61
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

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.	1307	480	59	17	1863
1) Total N.D.	6	24	3	1	34
2) Selective N.D.	91	96	19	9	215
3) Lymph node excision	0	0	0	0	0
8) Others	7	3	0	4	14
9) Unknown	39	19	1	1	60
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

NOS: not otherwise specified.

N.D.: neck dissection

## Reconstructive Surgery by Subsite

Reconstructive surgery	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No reconstruction	1383	540	74	27	2024
9) Unknown	41	23	1	1	66
B) Free jejunal flap	5	17	4	3	29
5) PM MC flap	6	14	2	1	23
E) Free ALT flap	2	14	1	0	17
C) Free FA flap	3	6	0	0	9
2) Local skin flap	7	1	0	0	8
8) Others	0	5	0	0	5
4) DP flap	2	0	0	0	2
D) Free RA MC flap	1	1	0	0	2
G) Free fibular OC flap	0	1	0	0	1
1) Skin graft	0	0	0	0	0
3) Mucosal flap	0	0	0	0	0
6) Others	0	0	0	0	0
7) Gastric pull-up	0	0	0	0	0
A) Others	0	0	0	0	0
F) Free scapular OC flap	0	0	0	0	0
H) Others	0	0	0	0	0
I) Free nerve graft	0	0	0	0	0
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

NOS: not otherwise specified.

RA: rectus abdominis.

MC: musculocutaneous.

ALT: anterolateral thigh.

FA: forearm.

PM: pectoralis major.

OC: osteocutaneous.

DP: deltopectoral.



## Radiotherapy by Subsite

Type of radiotherapy	Glottis (C32.0)	Supraglottis (C32.1) (C10.1)	Subglottis (C32.2)	Larynx, NOS (C32.9)	Total
0) No radiotherapy	402	233	38	19	692
1) X-ray (and/or electron beam)	1012	370	44	12	1438
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) Particle beam + B.T.	0	0	0	0	0
7) X-ray + Particle beam + B.T.	0	0	0	0	0
8) Others	0	1	0	0	1
9) Unknown	36	18	0	1	55
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

NOS: not otherwise specified

B.T.: brachytherapy.

## 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	1117	321	49	27	1514
1) I.V.	252	272	30	5	559
2) I.A.	7	3	1	0	11
3) Oral	36	8	1	0	45
4) I.V.+I.A.	0	0	0	0	0
5) I.V.+Oral	1	1	1	0	3
6) I.A.+Oral	1	0	0	0	1
7) I.V.+I.A.+Oral	0	0	0	0	0
8) Others	0	0	0	0	0
9) Unknown	36	17	0	0	53
<b>Total</b>	<b>1450</b>	<b>622</b>	<b>82</b>	<b>32</b>	<b>2186</b>

NOS: not otherwise specified

I.V.: intravenous.

I.A.: intraarterial.

# Hypopharynx(2020)

3047 Cases

## Primary Site

Site	Number of patients	(%)
Postcricoid	301	(9.9)
Pyriiform sinus	2123	(69.7)
Posterior wall	490	(16.1)
Hypopharynx, NOS	133	(4.4)
<b>Total</b>	<b>3047</b>	<b>(100.0)</b>

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	2	2	4
40 - 49	60	22	82
50 - 59	326	60	386
60 - 69	868	76	944
70 - 79	1193	71	1264
80 - 89	321	26	347
90 - 99	17	3	20
100 - 109	0	0	0
110 - 119	0	0	0
<b>Total</b>	<b>2787</b>	<b>260</b>	<b>3047</b>

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	1	0	1
40 - 49	3	1	4
50 - 59	42	11	53
60 - 69	75	10	85
70 - 79	117	8	125
80 - 89	30	1	31
90 - 99	2	0	2
100 - 109	0	0	0
110 - 119	0	0	0
<b>Total</b>	<b>270</b>	<b>31</b>	<b>301</b>

## Pyriform sinus Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	1	2	3
40 - 49	48	19	67
50 - 59	230	34	264
60 - 69	615	45	660
70 - 79	824	44	868
80 - 89	233	15	248
90 - 99	12	1	13
100 - 109	0	0	0
110 - 119	0	0	0
<b>Total</b>	<b>1963</b>	<b>160</b>	<b>2123</b>

## 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	7	2	9
50 - 59	37	11	48
60 - 69	140	19	159
70 - 79	202	14	216
80 - 89	46	10	56
90 - 99	2	0	2
100 - 109	0	0	0
Total	434	56	490

## Hypopharynx, NOS

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	2	0	2
50 - 59	17	4	21
60 - 69	38	2	40
70 - 79	50	5	55
80 - 89	12	0	12
90 - 99	1	2	3
100 - 109	0	0	0
Total	120	13	133

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 3047 Cases

## Histological Distribution by Subsite

Histologic type	Postcricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
S.C.C., NOS	269	1895	426	121	2711
S.C.C., keratinizing, NOS	13	53	16	2	84
Adenoid cystic ca.	0	1	0	0	1
S.C.C. in situ, NOS	8	103	27	5	143
Mucoepidermoid ca.	0	2	0	1	3
S.C.C., large cell, nonkerat., NOS	3	22	3	0	28
S.C.C., microinvasive	1	4	3	1	9
S.C.C., spindle cell	0	5	2	1	8
Adenocarcinoma, NOS	0	1	0	2	3
S.C.C., small cell, nonkerat.	1	1	0	0	2
Lymphoepithelial ca.	0	7	0	0	7
Malig. lymphoma, NOS	1	0	0	0	1
Ca., NOS	0	5	4	0	9
Liposarcoma, NOS	0	1	0	0	1
Spindle cell ca., NOS	0	0	2	0	2
Ca., undiff., NOS	0	1	1	0	2
Neoplasm, malig.	0	3	0	0	3
Papillary S.C.C.	1	1	1	0	3
Small cell ca., NOS	1	2	0	0	3
Basaloid S.C.C.	1	5	1	0	7
Transitional cell ca., NOS	1	1	0	0	2
Carcinosarcoma, NOS	0	1	1	0	2
Basal cell ca., NOS	0	1	0	0	1
Adenosquamous ca.	0	6	0	0	6
S.C.C., nonkerat.	0	2	0	0	2
Spindle cell rhabdomyosarcoma	0	0	1	0	1
Intraepithelial ca.	0	0	1	0	1
Malig. teratoma, undiff.	0	0	1	0	1
Plasmacytoma, NOS	1	0	0	0	1
<b>Total</b>	<b>301</b>	<b>2123</b>	<b>490</b>	<b>133</b>	<b>3047</b>

NOS: not otherwise specified.

ca., Ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

malig., Malig.: malignant.

kerat.: keratinizing.

nonkerat.: nonkeratinizing.

undiff.: undifferentiated.

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	5	1	0	0	0	0	0	0	1	0	0	7
T1	494	26	0	6	48(2)	5(2)	5	1	38	2	0	625
T1a	0	1	0	0	0	0	0	0	0	0	0	1
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	461(3)	111(1)	3	15(1)	186(2)	90(7)	0	4	81(1)	1	0	952
T3	159(1)	75(1)	2	8	148(5)	101(7)	2(1)	3	88(8)	0	0	586
T4	0	3	4	0	5	6	7	0	4	0	0	29
T4a	74(2)	62(1)	0	8	180(16)	97(9)	3	4	111(12)	0	0	539
T4b	10	6	0	1	21(3)	25(7)	3	0	32(5)	0	0	98
Tis	184	1	0	0	1	1	0	0	1	2	0	190
TX	6	0	0	0	1	1(1)	0	0	1	7(1)	1	17
T-	0	0	0	0	0	0	0	0	0	0	3	3
Total	1393	286	9	38	590	326	20	12	357	12	4	3047

M1:99 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	2	0	0	0	0	0	0	0	0	0	0	2
T1	42	1	0	0	4	1	0	0	2	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	59	17	0	3(1)	18	19(2)	0	0	7	0	0	123
T3	22	8	0	1	10(2)	23(2)	0	0	10(2)	0	0	74
T4	0	2	0	0	0	2	0	0	1	0	0	5
T4a	2	2	0	0	7(1)	14(2)	0	0	6(1)	0	0	31
T4b	1	0	0	0	0	1	0	0	1	0	0	3
Tis	9	0	0	0	0	0	0	0	0	0	0	9
TX	1	0	0	0	1	0	0	0	0	0	0	2
T-	0	0	0	0	0	0	0	0	0	0	2	2
Total	138	30	0	4	40	60	0	0	27	0	2	301

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

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

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

## Pyramiform sinus

### T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	2	1	0	0	0	0	0	0	1	0	0	4
T1	328	22	0	5	38(2)	4(2)	5	0	29	2	0	433
T1a	0	1	0	0	0	0	0	0	0	0	0	1
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	298(3)	76(1)	3	9	149(2)	51(3)	0	4	62(1)	1	0	653
T3	77(1)	50(1)	0	4	117(3)	52(2)	2(1)	3	62(4)	0	0	367
T4	0	1	1	0	5	4	5	0	3	0	0	19
T4a	60(2)	53(1)	0	7	161(15)	68(5)	2	3	96(11)	0	0	450
T4b	4	2	0	1	14	4(1)	2	0	19(1)	0	0	46
Tis	138	1	0	0	1	1	0	0	1	1	0	143
TX	2	0	0	0	0	0	0	0	1	3	1	7
T-	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>909</b>	<b>207</b>	<b>4</b>	<b>26</b>	<b>485</b>	<b>184</b>	<b>16</b>	<b>10</b>	<b>274</b>	<b>7</b>	<b>1</b>	<b>2123</b>

M1:62 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	1	0	0	0	0	0	0	0	0	0	0	1
T1	108	2	0	1	4	0	0	0	6	0	0	121
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	90	11	0	0	14	18(2)	0	0	10	0	0	143
T3	49	12	1	3	15	22(2)	0	0	12	0	0	114
T4	0	0	1	0	0	0	0	0	0	0	0	1
T4a	9	3	0	1	8	12(2)	0	0	7	0	0	40
T4b	5	3	0	0	5(3)	15(4)	1	0	7(2)	0	0	36
Tis	27	0	0	0	0	0	0	0	0	1	0	28
TX	3	0	0	0	0	0	0	0	0	2	0	5
T-	0	0	0	0	0	0	0	0	0	0	1	1
<b>Total</b>	<b>292</b>	<b>31</b>	<b>2</b>	<b>5</b>	<b>46</b>	<b>67</b>	<b>1</b>	<b>0</b>	<b>42</b>	<b>3</b>	<b>1</b>	<b>490</b>

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



## 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	16	1	0	0	2	0	0	1	1	0	0	21
T1a	0	0	0	0	0	0	0	0	0	0	0	0
T1b	0	0	0	0	0	0	0	0	0	0	0	0
T2	14	7	0	3	5	2	0	0	2	0	0	33
T3	11	5	1	0	6	4(1)	0	0	4(2)	0	0	31
T4	0	0	2	0	0	0	2	0	0	0	0	4
T4a	3	4	0	0	4	3	1	1	2	0	0	18
T4b	0	1	0	0	2	5(2)	0	0	5(2)	0	0	13
Tis	10	0	0	0	0	0	0	0	0	0	0	10
TX	0	0	0	0	0	1(1)	0	0	0	2(1)	0	3
T-	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>54</b>	<b>18</b>	<b>3</b>	<b>3</b>	<b>19</b>	<b>15</b>	<b>3</b>	<b>2</b>	<b>14</b>	<b>2</b>	<b>0</b>	<b>133</b>

NOS : Not Otherwise Specified

M1:9 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	Posterioricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
<b>Surgery</b>					
without	155	1053	219	61	1488
with	138	1039	256	69	1502
unknown	8	31	15	3	57
<b>Radiotherapy</b>					
without	131	908	239	57	1335
with	162	1184	236	73	1655
unknown	8	31	15	3	57
<b>Chemotherapy</b>					
without	140	1071	263	68	1542
with	153	1021	212	62	1448
unknown	8	31	15	3	57
<b>Total</b>	<b>301</b>	<b>2123</b>	<b>490</b>	<b>133</b>	<b>3047</b>

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	196	1423	354	84	2057
with	95	663	121	44	923
unknown	10	37	15	5	67
Radiotherapy					
without	150	1092	285	64	1591
with	141	994	190	64	1389
unknown	10	37	15	5	67
Chemotherapy					
without	160	1189	304	70	1723
with	131	897	171	58	1257
unknown	10	37	15	5	67
<b>Total</b>	<b>301</b>	<b>2123</b>	<b>490</b>	<b>133</b>	<b>3047</b>

NOS: not otherwise specified.

Carcinoma of the Hypopharynx ----- 3047 Cases

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

Sequence of treatment methods	Postcricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
No treatment	7	67	15	13	102
A) Surg. alone	99	700	183	41	1023
F)(Rad.+Chem.)	83	522	96	22	723
B) Rad. alone	30	223	48	16	317
C)F) Chem. -> (Rad.+Chem.)	17	111	23	8	159
A)F) Surg.->(Rad.+Chem.)	13	104	21	4	142
C) Chem. alone	14	63	15	3	95
A)B) Surg.->Rad.	6	66	14	4	90
C)A) Chem.->Surg.	11	52	14	3	80
C)A)F) Chem.->Surg.->(Rad.+Chem.)	2	24	1	1	28
C)B) Chem.->Rad.	2	18	3	0	23
F)A)(Rad.+Chem.)->Surg.	2	13	4	0	19
F)C)(Rad.+Chem.)->Chem.	1	13	2	1	17
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	1	7	2	5	15
C)A)B) Chem.->Surg.->Rad.	1	11	2	0	14
C)C)F) Chem.->Chem.->(Rad.+Chem.)	1	6	7	0	14
C)C)Chem.->Chem.	1	6	2	1	10
A)C) Surg. -> Chem	1	7	1	0	9
B)C) Rad.->Chem.	0	8	1	0	9
B)A) Rad.->Surg.	0	7	0	1	8
A)A) Surg.->Surg.	0	5	2	0	7
C)A)C) Chem.->Surg.->Chem.	0	5	1	1	7
G)Surg.+Rad.+Chem.	0	5	2	0	7
D)(Surg.+Rad.)	0	6	0	0	6
Other	1	43	16	6	66
Unknown	8	31	15	3	57
<b>Total</b>	<b>301</b>	<b>2123</b>	<b>490</b>	<b>133</b>	<b>3047</b>

NOS : Not Otherwise Specified

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	3	202	1	0	622	324	13	224	76	16	6	1	1488
with	4	411	0	0	313	245	16	309	20	173	11	0	1502
unknown	0	12	0	0	17	17	0	6	2	1	0	2	57
Radiotherapy													
without	3	401	0	0	284	197	8	228	27	174	12	1	1335
with	4	212	1	0	651	372	21	305	69	15	5	0	1655
unknown	0	12	0	0	17	17	0	6	2	1	0	2	57
Chemotherapy													
without	6	469	1	0	391	224	12	220	25	182	12	0	1542
with	1	144	0	0	544	345	17	313	71	7	5	1	1448
unknown	0	12	0	0	17	17	0	6	2	1	0	2	57
<b>Total</b>	<b>7</b>	<b>625</b>	<b>1</b>	<b>0</b>	<b>952</b>	<b>586</b>	<b>29</b>	<b>539</b>	<b>98</b>	<b>190</b>	<b>17</b>	<b>3</b>	<b>3047</b>

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

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

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	14	0	0	25	27	1	26	5	2	2	0	102
A) Surg. alone	3	371	0	0	197	128	6	134	5	170	9	0	1023
F)(Rad.+Chem.)	1	91	0	0	373	148	9	74	22	4	1	0	723
B) Rad. alone	2	71	1	0	139	51	1	29	14	8	1	0	317
C)F) Chem. -> (Rad.+Chem.)	0	7	0	0	43	51	0	44	13	1	0	0	159
A)F) Surg.->(Rad.+Chem.)	0	10	0	0	23	43	3	61	1	0	1	0	142
C) Chem. alone	0	10	0	0	27	21	1	28	6	0	1	1	95
A)B) Surg.->Rad.	1	11	0	0	24	17	4	30	2	1	0	0	90
C)A) Chem.->Surg.	0	6	0	0	24	16	0	29	4	1	0	0	80
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	3	5	0	19	1	0	0	0	28
C)B) Chem.->Rad.	0	4	0	0	3	8	0	7	1	0	0	0	23
F)A)(Rad.+Chem.)->Surg.	0	0	0	0	8	8	0	2	1	0	0	0	19
F)C)(Rad.+Chem.)->Chem.	0	1	0	0	6	3	0	4	2	1	0	0	17
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	0	1	0	0	1	3	0	4	6	0	0	0	15
C)A)B) Chem.->Surg.->Rad.	0	1	0	0	2	3	0	7	1	0	0	0	14
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	1	0	0	6	6	0	1	0	0	0	0	14
C)C)Chem.->Chem.	0	0	0	0	3	0	0	4	3	0	0	0	10
Other	0	14	0	0	28	31	4	30	9	1	2	0	119
Unknown	0	12	0	0	17	17	0	6	2	1	0	2	57
<b>Total</b>	<b>7</b>	<b>625</b>	<b>1</b>	<b>0</b>	<b>952</b>	<b>586</b>	<b>29</b>	<b>539</b>	<b>98</b>	<b>190</b>	<b>17</b>	<b>3</b>	<b>3047</b>

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

## 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	1	18	0	0	79	39	2	12	2	0	1	1	155
with	1	31	0	0	42	32	3	18	1	9	1	0	138
unknown	0	1	0	0	2	3	0	1	0	0	0	1	8
Radiotherapy													
without	1	30	0	0	41	28	2	16	1	9	2	1	131
with	1	19	0	0	80	43	3	14	2	0	0	0	162
unknown	0	1	0	0	2	3	0	1	0	0	0	1	8
Chemotherapy													
without	1	32	0	0	48	30	3	14	1	9	2	0	140
with	1	17	0	0	73	41	2	16	2	0	0	1	153
unknown	0	1	0	0	2	3	0	1	0	0	0	1	8
<b>Total</b>	<b>2</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>123</b>	<b>74</b>	<b>5</b>	<b>31</b>	<b>3</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>301</b>

T-: not within defined T classification or 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
No treatment	0	1	0	0	2	2	0	1	0	0	1	0	7
A) Surg. alone	1	26	0	0	32	19	3	7	1	9	1	0	99
F)(Rad.+Chem.)	1	11	0	0	52	14	1	3	1	0	0	0	83
B) Rad. alone	0	6	0	0	13	8	1	2	0	0	0	0	30
C)F) Chem. -> (Rad.+Chem.)	0	0	0	0	6	9	0	1	1	0	0	0	17
C) Chem. alone	0	1	0	0	4	5	0	3	0	0	0	1	14
A)F) Surg.->(Rad.+Chem.)	0	1	0	0	3	6	0	3	0	0	0	0	13
C)A) Chem.->Surg.	0	3	0	0	3	2	0	3	0	0	0	0	11
A)B) Surg.->Rad.	0	0	0	0	1	1	0	4	0	0	0	0	6
Other	0	0	0	0	5	5	0	3	0	0	0	0	13
Unknown	0	1	0	0	2	3	0	1	0	0	0	1	8
<b>Total</b>	<b>2</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>123</b>	<b>74</b>	<b>5</b>	<b>31</b>	<b>3</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>301</b>

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

## Pyriiform 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	156	1	0	442	210	7	189	34	11	2	0	1053
with	3	273	0	0	199	148	12	257	11	131	5	0	1039
unknown	0	4	0	0	12	9	0	4	1	1	0	0	31
Radiotherapy													
without	2	272	0	0	177	113	6	189	14	131	4	0	908
with	2	157	1	0	464	245	13	257	31	11	3	0	1184
unknown	0	4	0	0	12	9	0	4	1	1	0	0	31
Chemotherapy													
without	4	329	1	0	265	128	8	185	11	136	4	0	1071
with	0	100	0	0	376	230	11	261	34	6	3	0	1021
unknown	0	4	0	0	12	9	0	4	1	1	0	0	31
<b>Total</b>	<b>4</b>	<b>433</b>	<b>1</b>	<b>0</b>	<b>653</b>	<b>367</b>	<b>19</b>	<b>450</b>	<b>46</b>	<b>143</b>	<b>7</b>	<b>0</b>	<b>2123</b>

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



## Pyriform sinus

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

Sequence of treatment methods	T0	T1	T1a	T1b	T2	T3	T4	T4a	T4b	Tis	TX	T-	Total
No treatment	0	8	0	0	19	14	1	21	2	1	1	0	67
A) Surg. alone	2	253	0	0	118	74	3	116	3	128	3	0	700
F)(Rad.+Chem.)	0	70	0	0	265	104	4	64	11	4	0	0	522
B) Rad. alone	1	57	1	0	103	27	0	25	4	5	0	0	223
C)F) Chem. -> (Rad.+Chem.)	0	4	0	0	29	33	0	37	8	0	0	0	111
A)F) Surg.->(Rad.+Chem.)	0	5	0	0	16	26	3	52	1	0	1	0	104
A)B) Surg.->Rad.	1	7	0	0	19	11	3	22	2	1	0	0	66
C) Chem. alone	0	8	0	0	17	12	1	22	3	0	0	0	63
C)A) Chem.->Surg.	0	2	0	0	15	10	0	21	3	1	0	0	52
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	0	0	2	4	0	18	0	0	0	0	24
C)B) Chem.->Rad.	0	4	0	0	1	5	0	7	1	0	0	0	18
F)A)(Rad.+Chem.)->Surg.	0	0	0	0	4	7	0	1	1	0	0	0	13
F)C)(Rad.+Chem.)->Chem.	0	1	0	0	5	2	0	3	1	1	0	0	13
C)A)B) Chem.->Surg.->Rad.	0	1	0	0	0	3	0	7	0	0	0	0	11
B)C) Rad.->Chem.	0	0	0	0	1	3	0	4	0	0	0	0	8
Other	0	9	0	0	27	23	4	26	5	1	2	0	97
Unknown	0	4	0	0	12	9	0	4	1	1	0	0	31
<b>Total</b>	<b>4</b>	<b>433</b>	<b>1</b>	<b>0</b>	<b>653</b>	<b>367</b>	<b>19</b>	<b>450</b>	<b>46</b>	<b>143</b>	<b>7</b>	<b>0</b>	<b>2123</b>

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

## 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
<b>Surgery</b>													
without	1	26	0	0	82	58	1	17	29	4	1	0	219
with	0	89	0	0	59	52	0	22	6	24	4	0	256
unknown	0	6	0	0	2	4	0	1	1	0	0	1	15
<b>Radiotherapy</b>													
without	0	85	0	0	60	42	0	14	9	25	4	0	239
with	1	30	0	0	81	68	1	25	26	3	1	0	236
unknown	0	6	0	0	2	4	0	1	1	0	0	1	15
<b>Chemotherapy</b>													
without	1	92	0	0	68	46	0	13	11	27	5	0	263
with	0	23	0	0	73	64	1	26	24	1	0	0	212
unknown	0	6	0	0	2	4	0	1	1	0	0	1	15
<b>Total</b>	<b>1</b>	<b>121</b>	<b>0</b>	<b>0</b>	<b>143</b>	<b>114</b>	<b>1</b>	<b>40</b>	<b>36</b>	<b>28</b>	<b>5</b>	<b>1</b>	<b>490</b>

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

## 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	5	0	0	3	3	0	1	2	1	0	0	15
A) Surg. alone	0	76	0	0	44	28	0	6	1	24	4	0	183
F)(Rad.+Chem.)	0	9	0	0	43	28	1	6	9	0	0	0	96
B) Rad. alone	1	7	0	0	18	9	0	2	8	2	1	0	48
C)F) Chem. -> (Rad.+Chem.)	0	3	0	0	5	8	0	3	3	1	0	0	23
A)F) Surg.->(Rad.+Chem.)	0	4	0	0	3	9	0	5	0	0	0	0	21
C) Chem. alone	0	1	0	0	6	4	0	2	2	0	0	0	15
A)B) Surg.->Rad.	0	4	0	0	2	5	0	3	0	0	0	0	14
C)A) Chem.->Surg.	0	1	0	0	4	4	0	4	1	0	0	0	14
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	1	0	0	4	2	0	0	0	0	0	0	7
Other	0	4	0	0	9	10	0	7	9	0	0	0	39
Unknown	0	6	0	0	2	4	0	1	1	0	0	1	15
<b>Total</b>	<b>1</b>	<b>121</b>	<b>0</b>	<b>0</b>	<b>143</b>	<b>114</b>	<b>1</b>	<b>40</b>	<b>36</b>	<b>28</b>	<b>5</b>	<b>1</b>	<b>490</b>

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

## 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	2	0	0	19	17	3	6	11	1	2	0	61
with	0	18	0	0	13	13	1	12	2	9	1	0	69
unknown	0	1	0	0	1	1	0	0	0	0	0	0	3
Radiotherapy													
without	0	14	0	0	6	14	0	9	3	9	2	0	57
with	0	6	0	0	26	16	4	9	10	1	1	0	73
unknown	0	1	0	0	1	1	0	0	0	0	0	0	3
Chemotherapy													
without	0	16	0	0	10	20	1	8	2	10	1	0	68
with	0	4	0	0	22	10	3	10	11	0	2	0	62
unknown	0	1	0	0	1	1	0	0	0	0	0	0	3
<b>Total</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>31</b>	<b>4</b>	<b>18</b>	<b>13</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>133</b>

NOS: not otherwise specified.

T-: not within defined T classification or 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	8	0	3	1	0	0	0	13
A) Surg. alone	0	16	0	0	3	7	0	5	0	9	1	0	41
F)(Rad.+Chem.)	0	1	0	0	13	2	3	1	1	0	1	0	22
B) Rad. alone	0	1	0	0	5	7	0	0	2	1	0	0	16
C)F) Chem. -> (Rad.+Chem.)	0	0	0	0	3	1	0	3	1	0	0	0	8
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	0	0	0	0	0	1	0	0	4	0	0	0	5
A)B) Surg.->Rad.	0	0	0	0	2	0	1	1	0	0	0	0	4
A)F) Surg.->(Rad.+Chem.)	0	0	0	0	1	2	0	1	0	0	0	0	4
Other	0	3	0	0	5	3	0	4	4	0	1	0	20
<b>Total</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>31</b>	<b>4</b>	<b>18</b>	<b>13</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>133</b>

NOS: not otherwise specified.

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

Carcinoma of the Hypopharynx ----- 3047 Cases

Surgical Methods for the Primary Lesion by Subsite

Surgical method	Postcricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
No surgery	155	1057	217	62	1491
Endoscopic resection	26	291	103	20	440
Total pharyngolaryngectomy	39	287	51	3	380
Transoral resection	26	211	55	13	305
Total pharyngolaryngo-esophagectomy	23	125	36	7	191
Total laryngectomy+Partial pharyngectomy	10	28	3	2	43
Partial hypopharyngectomy	2	26	2	1	31
Hypopharyngectomy + Cervical esophagectomy	2	21	2	3	28
Total laryngectomy	5	16	0	5	26
Others	3	17	3	5	28
Unknown	10	44	18	12	84
<b>Total</b>	<b>301</b>	<b>2123</b>	<b>490</b>	<b>133</b>	<b>3047</b>

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
No surgery	3	201	1	0	626	323	13	225	76	16	6	1	1491
Endoscopic resection	1	245	0	0	70	10	0	0	0	107	7	0	440
Total pharyngolaryngectomy	0	5	0	0	68	108	10	180	9	0	0	0	380
Transoral resection	3	142	0	0	82	9	0	1	0	65	3	0	305
Total pharyngolaryngo-esophagectomy	0	3	0	0	27	72	3	77	8	0	1	0	191
Total laryngectomy+Partial pharyngectomy	0	0	0	0	15	13	0	14	1	0	0	0	43
Partial hypopharyngectomy	0	4	0	0	17	5	0	4	1	0	0	0	31
Hypopharyngectomy + Cervical esophagectomy	0	0	0	0	6	9	2	11	0	0	0	0	28
Total laryngectomy	0	1	0	0	7	7	1	10	0	0	0	0	26
Others	0	9	0	0	9	4	0	5	0	1	0	0	28
Unknown	0	15	0	0	25	26	0	12	3	1	0	2	84
<b>Total</b>	<b>7</b>	<b>625</b>	<b>1</b>	<b>0</b>	<b>952</b>	<b>586</b>	<b>29</b>	<b>539</b>	<b>98</b>	<b>190</b>	<b>17</b>	<b>3</b>	<b>3047</b>

T-: not within defined T classification or 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
No surgery	1	18	0	0	79	39	2	12	2	0	1	1	155
Total pharyngolaryngectomy	0	0	0	0	14	17	0	7	1	0	0	0	39
Endoscopic resection	0	16	0	0	3	1	0	0	0	6	0	0	26
Transoral resection	1	12	0	0	8	1	0	0	0	3	1	0	26
Total pharyngolaryngo-esophagectomy	0	0	0	0	5	9	1	8	0	0	0	0	23
Total laryngectomy+Partial pharyngectomy	0	0	0	0	7	1	0	2	0	0	0	0	10
Total laryngectomy	0	1	0	0	2	1	0	1	0	0	0	0	5
Partial hypopharyngectomy	0	0	0	0	2	0	0	0	0	0	0	0	2
Hypopharyngectomy + Cervical esophagectomy	0	0	0	0	0	0	2	0	0	0	0	0	2
Unilateral resection of the lateral wall of the oropharynx	0	0	0	0	1	0	0	0	0	0	0	0	1
Laryngectomy, other type	0	0	0	0	0	1	0	0	0	0	0	0	1
Others	0	1	0	0	0	0	0	0	0	0	0	0	1
Unknown	0	2	0	0	2	4	0	1	0	0	0	1	10
<b>Total</b>	<b>2</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>123</b>	<b>74</b>	<b>5</b>	<b>31</b>	<b>3</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>301</b>

T-: not within defined T classification or 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
No surgery	1	155	1	0	446	210	7	190	34	11	2	0	1057
Endoscopic resection	1	161	0	0	47	1	0	0	0	78	3	0	291
Total pharyngolaryngectomy	0	3	0	0	38	73	10	157	6	0	0	0	287
Transoral resection	2	98	0	0	54	4	0	0	0	52	1	0	211
Total pharyngolaryngo-esophagectomy	0	2	0	0	15	39	2	62	4	0	1	0	125
Total laryngectomy+Partial pharyngectomy	0	0	0	0	8	10	0	10	0	0	0	0	28
Partial hypopharyngectomy	0	3	0	0	15	4	0	3	1	0	0	0	26
Hypopharyngectomy + Cervical esophagectomy	0	0	0	0	6	6	0	9	0	0	0	0	21
Total laryngectomy	0	0	0	0	3	5	0	8	0	0	0	0	16
Partial laryngectomy	0	0	0	0	1	0	0	0	0	1	0	0	2
Others	0	4	0	0	3	2	0	4	0	0	0	0	13
Unknown	0	7	0	0	17	13	0	7	1	1	0	0	46
<b>Total</b>	<b>4</b>	<b>433</b>	<b>1</b>	<b>0</b>	<b>653</b>	<b>367</b>	<b>19</b>	<b>450</b>	<b>46</b>	<b>143</b>	<b>7</b>	<b>0</b>	<b>2123</b>

T-: not within defined T classification or 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
No surgery	1	26	0	0	82	57	1	17	28	4	1	0	217
Endoscopic resection	0	60	0	0	17	7	0	0	0	16	3	0	103
Transoral resection	0	23	0	0	20	3	0	0	0	8	1	0	55
Total pharyngolaryngectomy	0	2	0	0	14	18	0	15	2	0	0	0	51
Total pharyngolaryngo-esophagectomy	0	1	0	0	6	21	0	5	3	0	0	0	36
Total laryngectomy+Partial pharyngectomy	0	0	0	0	0	2	0	0	1	0	0	0	3
Partial hypopharyngectomy	0	1	0	0	0	0	0	1	0	0	0	0	2
Hypopharyngectomy + Cervical esophagectomy	0	0	0	0	0	1	0	1	0	0	0	0	2
Others	0	2	0	0	1	0	0	0	0	0	0	0	3
Unknown	0	6	0	0	3	5	0	1	2	0	0	1	18
<b>Total</b>	<b>1</b>	<b>121</b>	<b>0</b>	<b>0</b>	<b>143</b>	<b>114</b>	<b>1</b>	<b>40</b>	<b>36</b>	<b>28</b>	<b>5</b>	<b>1</b>	<b>490</b>

T-: not within defined T classification or 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
No surgery	0	2	0	0	19	17	3	6	12	1	2	0	62
Endoscopic resection	0	8	0	0	3	1	0	0	0	7	1	0	20
Transoral resection	0	9	0	0	0	1	0	1	0	2	0	0	13
Total pharyngolaryngo-esophagectomy	0	0	0	0	1	3	0	2	1	0	0	0	7
Total laryngectomy	0	0	0	0	2	1	1	1	0	0	0	0	5
Total pharyngolaryngectomy	0	0	0	0	2	0	0	1	0	0	0	0	3
Hypopharyngectomy + Cervical esophagectomy	0	0	0	0	0	2	0	1	0	0	0	0	3
Total laryngectomy+Partial pharyngectomy	0	0	0	0	0	0	0	2	0	0	0	0	2
Laryngectomy, other type	0	1	0	0	0	0	0	1	0	0	0	0	2
Partial hypopharyngectomy	0	0	0	0	0	1	0	0	0	0	0	0	1
Others	0	0	0	0	1	1	0	0	0	0	0	0	2
Unknown	0	1	0	0	5	4	0	3	0	0	0	0	13
<b>Total</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>31</b>	<b>4</b>	<b>18</b>	<b>13</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>133</b>

NOS: not otherwise specified.

T-: not within defined T classification or 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.	195	1430	355	90	2070
1) Total N.D.	25	189	38	10	262
2) Selective N.D.	68	450	76	20	614
3) Lymph node excision	0	0	0	0	0
8) Others	1	8	2	5	16
9) Unknown	12	46	19	8	85
<b>Total</b>	<b>301</b>	<b>2123</b>	<b>490</b>	<b>133</b>	<b>3047</b>

NOS: not otherwise specified.

N.D.: neck dissection.

## Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Postericoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No N.D.	219	1623	384	102	2328
1) Total N.D.	11	63	14	5	93
2) Selective N.D.	58	378	68	13	517
3) Lymph node excision	0	2	1	0	3
8) Others	1	11	4	5	21
9) Unknown	12	46	19	8	85
<b>Total</b>	<b>301</b>	<b>2123</b>	<b>490</b>	<b>133</b>	<b>3047</b>

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	219	1606	374	98	2297
B) Free jejunal flap	54	394	81	15	544
5) PM MC flap	6	23	5	2	36
E) Free ALT flap	3	23	5	2	33
7) Gastric pull-up	4	9	0	1	14
C) Free FA flap	2	8	1	0	11
2) Local skin flap	1	2	0	0	3
D) Free RA MC flap	0	3	0	0	3
3) Mucosal flap	0	1	1	0	2
4) DP flap	0	2	0	0	2
1) Skin graft	0	0	1	0	1
I) Free nerve graft	0	0	1	0	1
F) Free scapular OC flap	0	0	0	0	0
G) Free fibular OC flap	0	0	0	0	0
Others	1	6	0	0	7
9) Unknown	11	46	21	15	93
<b>Total</b>	<b>301</b>	<b>2123</b>	<b>490</b>	<b>133</b>	<b>3047</b>

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

## Radiotherapy by Subsite

Type of radiotherapy	Posterioricoid (C13.0)	Pyriiform sinus (C12.9) (C13.1)	Posterior wall (C13.2)	Hypopharynx, NOS (C13.9)	Total
0) No radiotherapy	122	883	234	57	1296
1) X-ray (and/or electron beam)	167	1199	239	66	1671
2) Particle beam	0	1	1	0	2
3) B.T.	0	0	0	0	0
4) X-ray + Particle beam	0	0	0	0	0
5) X-ray + B.T.	0	0	0	0	0
6) Particle beam + B.T.	0	0	0	0	0
7) X-ray + Particle beam + B.T.	0	0	0	0	0
8) Others	0	0	0	0	0
9) Unknown	12	40	16	10	78
Total	301	2123	490	133	3047

NOS: not otherwise specified.

B.T.: brachytherapy.

## 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	136	1044	262	73	1515
1) I.V.	147	994	198	51	1390
2) I.A.	2	7	6	1	16
3) Oral	5	27	6	1	39
4) I.V.+I.A.	0	1	0	0	1
5) I.V.+Oral	1	9	2	1	13
6) I.A.+Oral	0	0	0	0	0
7) I.V.+I.A.+Oral	0	0	0	0	0
8) Others	1	1	0	0	2
9) Unknown	9	40	16	6	71
Total	301	2123	490	133	3047

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

# Oropharynx(2020)

2347 Cases

## Primary Site

Site	Number of patients	(%)
Superiorwall	210	(8.9)
Lateralwall	1343	(57.2)
Posteriorwall	157	(6.7)
Anteriorwall	567	(24.2)
Oropharynx, NOS	70	(3.0)
<b>Total</b>	<b>2347</b>	<b>(100.0)</b>

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	3	0	3
10 - 19	0	1	1
20 - 29	1	1	2
30 - 39	17	13	30
40 - 49	126	43	169
50 - 59	303	86	389
60 - 69	594	120	714
70 - 79	685	127	812
80 - 89	155	55	210
90 - 99	13	4	17
100 - 109	0	0	0
110 - 119	0	0	0
<b>Total</b>	<b>1897</b>	<b>450</b>	<b>2347</b>



## p16 status

	<b>Total</b>
p16 positive	1136
p16 negative	909
p16 unknown	255
not reported	47
<b>Total</b>	<b>2347</b>

Oropharynx p16 positive(2020)

1136Cases

## Primary Site

Site	Number of patients	(%)
Superiorwall	27	(2.4)
Lateralwall	848	(74.8)
Posteriorwall	16	(1.4)
Anteriorwall	224	(19.8 )
Oropharynx, NOS	21	(1.9)
<b>Total</b>	<b>1136</b>	<b>(100.0)</b>

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	15	6	21
40 - 49	94	26	120
50 - 59	207	44	251
60 - 69	256	67	323
70 - 79	268	60	328
80 - 89	60	25	85
90 - 99	4	2	6
100 - 109	0	0	0
<b>Total</b>	<b>906</b>	<b>230</b>	<b>1136</b>

Carcinoma of the Oropharynx p16 positive ----- 1136Cases

## Histological Distribution by Subsite

Histologic type	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
S.C.C., NOS	23	771	15	201	21	1031
S.C.C., keratinizing, NOS	2	19	0	4	0	25
S.C.C. in situ, NOS	0	2	0	3	0	5
S.C.C., large cell, nonkerat., NOS	0	20	1	4	0	25
S.C.C., microinvasive	0	4	0	0	0	4
S.C.C., spindle cell	1	3	0	0	0	4
Adenocarcinoma, NOS	0	1	0	0	0	1
S.C.C., small cell, nonkerat.	0	1	0	0	0	1
Papillary S.C.C.	0	3	0	1	0	4
Small cell ca., NOS	0	1	0	0	0	1
Clear cell ca., NOS	0	1	0	0	0	1
Large cell ca., NOS	0	0	0	1	0	1
S.C.C., HPV positive	1	22	0	10	0	33
<b>Total</b>	<b>27</b>	<b>848</b>	<b>16</b>	<b>224</b>	<b>21</b>	<b>1136</b>

NOS: not otherwise specified.  
HPV : Human papillomavirus.

S.C.C.: squamous cell carcinoma.

ca., Ca.: carcinoma.

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	0	8	2	0	0	0	1	0	0	0	0	11
T1	56(1)	149(2)	26	0	0	1	5	0	0	0	0	237
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	102(1)	343(1)	64(2)	0	0	0	10(1)	0	0	2	0	521
T3	25	95(3)	37(1)	0	0	0	5(1)	0	0	0	0	162
T4	21(1)	72	81(7)	0	1	0	21(3)	0	0	0	0	196
T4a	0	0	0	0	0	0	0	0	0	0	0	0
T4b	0	0	1	0	0	0	0	0	0	0	0	1
Tis	5	0	0	0	0	0	0	0	0	0	0	5
TX	0	0	0	0	0	0	0	0	0	0	0	0
T-	0	1	0	0	0	0	0	0	0	0	2	3
<b>Total</b>	<b>209</b>	<b>668</b>	<b>211</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>42</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>1136</b>

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

## Treatment Method for the Primary Lesion by Subsite

Treatment Method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
without	17	560	11	157	14	759
with	10	287	5	67	7	376
unknown	0	1	0	0	0	1
Radiotherapy						
without	10	221	5	53	5	294
with	17	626	11	171	16	841
unknown	0	1	0	0	0	1
Chemotherapy						
without	11	298	6	74	7	396
with	16	549	10	150	14	739
unknown	0	1	0	0	0	1
<b>Total</b>	<b>27</b>	<b>848</b>	<b>16</b>	<b>224</b>	<b>21</b>	<b>1136</b>

NOS : Not Otherwise Specified

### Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
without	25	590	15	166	16	812
with	2	255	1	58	5	321
unknown	0	3	0	0	0	3
Radiotherapy						
without	13	256	7	65	5	346
with	14	589	9	159	16	787
unknown	0	3	0	0	0	3
Chemotherapy						
without	14	322	6	80	7	429
with	13	523	10	144	14	704
unknown	0	3	0	0	0	3
<b>Total</b>	<b>27</b>	<b>848</b>	<b>16</b>	<b>222</b>	<b>21</b>	<b>1136</b>

NOS : Not Otherwise Specified

### 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	0	9	0	3	1	13
F)(Rad.+Chem.)	12	386	6	112	11	527
A) Surg. alone	8	174	4	40	5	231
B) Rad. alone	2	83	2	21	2	110
C)F) Chem. -> (Rad.+Chem.)	1	39	2	14	1	57
A)B) Surg.->Rad.	1	32	0	8	1	42
A)F) Surg.->(Rad.+Chem.)	0	35	1	4	0	40
C)A) Chem.->Surg.	1	25	0	4	0	30
C) Chem. alone	1	13	1	3	0	18
F)C)(Rad.+Chem.)->Chem.	0	7	0	2	0	9
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	4	0	3	0	7
C)B) Chem.->Rad.	0	7	0	1	0	8
C)C)F) Chem.->Chem.->(Rad.+Chem.)	0	5	0	1	0	6
Other	1	29	0	8	0	38
<b>Total</b>	<b>27</b>	<b>848</b>	<b>16</b>	<b>224</b>	<b>21</b>	<b>1136</b>

NOS : Not Otherwise Specified

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

Carcinoma of the Oropharynx p16 positive ----- 1136Cases  
**Surgical Methods for the Primary Lesion by Subsite**

Surgical method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
No surgery	17	559	11	157	14	758
Unilateral resection of the lateral wall of the oropharynx	1	204	1	3	0	209
Resection of the oropharynx, other type	1	36	0	6	5	48
Resection of the root of tongue	0	1	0	40	0	41
Unilateral resection of the lateral wall of the oropharynx and soft	0	16	0	0	0	16
Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	0	12	0	0	0	12
Resection of the soft palate	5	3	0	0	0	8
Resection of the base of tongue and epiglottis	0	0	0	5	0	5
Endoscopic resection	0	2	1	2	0	5
Transoral resection	0	4	0	1	0	5
Resection of the posterior wall	0	1	3	0	0	4
Others	3	3	0	9	0	15
Unknown	0	6	0	1	2	9
<b>Total</b>	<b>27</b>	<b>847</b>	<b>16</b>	<b>224</b>	<b>21</b>	<b>1135</b>

Surgical Method for the Primary Lesion by Primary Site was not reported in a patient.

NOS: not otherwise specified.

### Reconstructive Surgery by Subsite

Reconststructive surgery	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No reconstruction	25	791	16	205	19	1056
E) Free ALT flap	1	26	0	3	0	30
D) Free RA MC flap	0	6	0	7	0	13
5) PM MC flap	0	2	0	6	0	8
C) Free FA flap	1	5	0	0	0	6
1) Skin graft	0	1	0	0	0	1
B) Free jejunal flap	0	1	0	0	0	1
2) Local skin flap	0	0	0	0	0	0
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	6	0	1	0	7
9) Unknown	0	10	0	2	2	14
<b>Total</b>	<b>27</b>	<b>848</b>	<b>16</b>	<b>224</b>	<b>21</b>	<b>1136</b>

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	590	15	167	17	814
1) Total N.D.	0	63	0	15	2	80
2) Selective N.D.	2	188	1	39	2	232
3) Lymph node excision	0	2	0	2	0	4
8) Others	0	0	0	0	0	0
9) Unknown	0	5	0	1	0	6
<b>Total</b>	<b>27</b>	<b>848</b>	<b>16</b>	<b>224</b>	<b>21</b>	<b>1136</b>

NOS: not otherwise specified.

N.D.: neck dissection.

### Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	26	827	16	206	20	1095
1) Total N.D.	0	4	0	2	0	6
2) Selective N.D.	1	12	0	15	0	28
3) Lymph node excision	0	0	0	0	0	0
8) Others	0	0	0	0	1	1
9) Unknown	0	5	0	1	0	6
<b>Total</b>	<b>27</b>	<b>848</b>	<b>16</b>	<b>224</b>	<b>21</b>	<b>1136</b>

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	10	206	5	53	5	279
1) X-ray (and/or electron beam)	17	628	9	167	15	836
2) Particle beam	0	3	0	0	0	3
3) B.T.	0	0	0	0	0	0
4) X-ray + Particle beam	0	1	0	0	0	1
5) X-ray + B.T.	0	0	0	0	0	0
6) Particle beam + B.T.	0	0	0	0	0	0
7) X-ray + Particle beam + B.T.	0	0	0	0	0	0
8) Others	0	0	0	0	0	0
9) Unknown	0	10	2	4	1	17
<b>Total</b>	<b>27</b>	<b>848</b>	<b>16</b>	<b>224</b>	<b>21</b>	<b>1136</b>

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	11	289	6	73	8	387
1) I.V.	15	528	8	142	11	704
2) I.A.	1	11	1	5	0	18
3) Oral	0	8	0	3	0	11
4) I.V.+I.A.	0	1	0	0	0	1
5) I.V.+Oral	0	5	1	0	1	7
6) I.A.+Oral	0	0	0	0	0	0
7) I.V.+I.A.+Oral	0	1	0	0	0	1
8) Others	0	0	0	0	0	0
9) Unknown	0	5	0	1	1	7
<b>Total</b>	<b>27</b>	<b>848</b>	<b>16</b>	<b>224</b>	<b>21</b>	<b>1136</b>

I.V.: intravenous.

I.A.: intraarterial.

NOS: not otherwise specified.

Oropharynx p16 negative and unknown  
(2020)

1164 Cases

## Primary Site

Site	Number of patients	(%)
Superiorwall	178	(15.3)
Lateralwall	471	(40.5)
Posteriorwall	138	(11.9)
Anteriorwall	331	(28.4)
Oropharynx, NOS	46	(4.0)
<b>Total</b>	<b>1164</b>	<b>(100.0)</b>

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	1	0	1
10 - 19	0	1	1
20 - 29	1	1	2
30 - 39	2	7	9
40 - 49	32	14	46
50 - 59	88	42	130
60 - 69	322	52	374
70 - 79	402	66	468
80 - 89	92	30	122
90 - 99	9	2	11
100 - 109	0	0	0
110 - 119	0	0	0
<b>Total</b>	<b>950</b>	<b>215</b>	<b>1164</b>

## Histological Distribution by Subsite

Histologic type	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
S.C.C., NOS	135	401	117	262	41	956
S.C.C., keratinizing, NOS	6	18	3	11	3	41
Adenoid cystic ca.	4	1	0	4	0	9
S.C.C. in situ, NOS	14	8	14	12	0	48
Mucoepidermoid ca.	6	2	0	9	0	17
S.C.C., large cell, nonkerat., NOS	1	2	0	6	0	9
S.C.C., microinvasive	3	3	1	2	0	9
S.C.C., spindle cell	0	0	0	1	0	1
Myoepithelial ca.	2	0	0	0	0	2
Adenocarcinoma, NOS	0	3	0	2	0	5
Lymphoepithelial ca.	0	0	0	1	0	1
Malig. lymphoma, NOS	0	10	0	4	0	14
Ca., NOS	2	3	0	0	1	6
Spindle cell ca., NOS	0	2	0	0	0	2
Mucinous adenocarcinoma	0	1	0	0	0	1
Basal cell adenocarcinoma	1	0	0	0	0	1
Neoplasm, malig.	2	1	0	1	0	4
Ca. ex pleomorphic adenoma	1	0	1	0	0	2
Papillary S.C.C.	0	2	0	2	0	4
Small cell ca., NOS	0	2	1	1	0	4
Basaloid S.C.C.	0	0	0	2	0	2
Clear cell ca., NOS	0	0	0	1	0	1
Carcinoid tumor, NOS	0	0	0	1	0	1
Carcinosarcoma, NOS	0	1	0	0	0	1
Adenosquamous ca.	0	0	0	1	0	1
S.C.C., HPV negative	1	10	1	7	0	19
Large cell neuroendocrine ca.	0	0	0	1	0	1
Leiomyosarcoma, NOS	0	1	0	0	0	1
Malig. lymphoma, large B-cell, diffuse, NOS	0	0	0	0	1	1
<b>Total</b>	<b>178</b>	<b>471</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1164</b>

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

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

ca., Ca.: carcinoma.  
HPV : Human papillomavirus.

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	4	1	0	1	0	0	0	0	1	0	0	7
T1	188(1)	17	0	5	14	4	0	1	14(1)	3	0	246
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	195	47(2)	0	2	72	38(1)	3(1)	0	25(6)	0	0	382
T3	68(1)	26(1)	4	1	45(3)	33(5)	2(1)	1	25(4)	0	0	205
T4	4	5	2	0	1	1	0	0	3	0	0	16
T4a	47(3)	12	0	2	41(2)	49(3)	1(1)	0	30(5)	0	0	182
T4b	4	5(1)	1	1	8	6(1)	0	0	15(5)	0	0	40
Tis	61	0	0	0	0	0	0	0	0	0	0	61
TX	1	1	0	0	1	1	0	0	0	7	0	11
T-	0	0	0	0	0	0	0	0	0	0	14	14
<b>Total</b>	<b>572</b>	<b>114</b>	<b>7</b>	<b>12</b>	<b>182</b>	<b>132</b>	<b>6</b>	<b>2</b>	<b>113</b>	<b>10</b>	<b>14</b>	<b>1164</b>

M1:48 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	53	255	68	174	31	581
with	125	215	70	157	14	581
unknown	0	1	0	0	1	2
Radiotherapy						
without	128	203	74	164	18	587
with	50	267	64	167	27	575
unknown	0	1	0	0	1	2
Chemotherapy						
without	139	240	75	171	20	645
with	39	230	63	160	25	517
unknown	0	1	0	0	1	2
<b>Total</b>	<b>178</b>	<b>471</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1164</b>

NOS : Not Otherwise Specified

## Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
Surgery						
without	147	334	119	230	37	867
with	30	135	19	101	8	293
unknown	1	2	0	0	1	4
Radiotherapy						
without	141	245	87	181	27	682
with	36	224	50	150	18	478
unknown	1	2	0	0	1	4
Chemotherapy						
without	148	277	85	188	26	724
with	29	192	53	143	19	436
unknown	1	2	0	0	1	4
<b>Total</b>	<b>178</b>	<b>471</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1164</b>

NOS : Not Otherwise Specified

## 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	7	14	7	15	5	48
A) Surg. alone	112	149	58	110	10	439
F)(Rad.+Chem.)	21	129	38	70	18	276
B) Rad. alone	13	50	7	32	4	106
C) Chem. alone	5	20	7	22	1	55
C)F) Chem. ->(Rad.+Chem.)	1	20	2	17	2	42
A)B) Surg.->Rad.	6	20	5	7	0	38
A)F) Surg.->(Rad.+Chem.)	0	18	2	10	2	32
C)A) Chem.->Surg.	4	10	1	6	0	21
F)A)(Rad.+Chem.)->Surg.	0	3	2	9	1	15
C)B) Chem.->Rad.	1	8	1	3	0	13
C)A)F) Chem.->Surg.->(Rad.+Chem.)	2	1	1	4	0	8
C)C)C) Chem.->Chem.->Chem.	0	2	3	2	0	7
A)A) Surg.->Surg.	1	3	0	2	0	6
C)C)Chem.->Chem.	0	2	1	3	0	6
F)C)(Rad.+Chem.)->Chem.	0	3	1	1	0	5
Other	5	19	2	18	3	47
<b>Total</b>	<b>178</b>	<b>471</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1164</b>

NOS : Not Otherwise Specified

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.



Carcinoma of the Oropharynx p16 negative and unknown ----- 1164Cases  
**Surgical Methods for the Primary Lesion by Subsite**

Surgical method	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
X0 No surgery	53	255	68	173	31	580
E3 Unilateral resection of the lateral wall of the oropharynx	2	127	2	1	2	134
E9 Resection of the oropharynx, other type	8	40	9	30	2	89
E8 Resection of the soft palate	78	6	0	0	2	86
E1 Resection of the root of tongue	0	3	0	62	0	65
E6 Resection of the posterior wall	0	0	42	0	0	42
E7 Resection of the uvula	24	0	0	0	0	24
A6 Total glossectomy	0	0	0	18	0	18
E4 Unilateral resection of the lateral wall of the oropharynx and soft	6	9	0	1	1	17
E2 Resection of the base of tongue and epiglottis	0	1	0	14	1	16
E5 Unilateral resection of the lateral wall of the oropharynx, soft palate and the base of tongue	0	14	0	0	1	15
F2/ Transoral resection	1	4	1	8	1	15
F1 Endoscopic resection	0	1	6	3	0	10
V9 Unknown	0	4	2	1	1	8
A5 Subtotal glossectomy	0	2	0	4	2	8
A1 Partial glossectomy	0	1	0	3	0	4
F5 Total pharyngolaryngectomy	0	1	4	0	0	5
G5 Total laryngectomy	0	0	0	5	0	5
Others	6	2	4	8	2	22
<b>Total</b>	<b>178</b>	<b>470</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1163</b>

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

NOS: not otherwise specified.

### Reconstructive Surgery by Subsite

Reconststructive surgery	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
No reconstruction	149	398	125	267	37	976
Free ALT flap	6	28	0	21	3	58
Free RA MC flap	4	12	0	25	2	43
Free FA flap	3	10	2	2	2	19
PM MC flap	1	9	1	7	0	18
Free jejunal flap	0	2	6	5	1	14
Mucosal flap	7	1	0	0	0	8
Local skin flap	1	1	1	0	0	3
Skin graft	1	0	0	0	0	1
DP flap	1	0	0	0	0	1
Free fibular OC flap	0	0	0	1	0	1
Gastric pull-up	0	0	0	0	0	0
Free scapular OC flap	0	0	0	0	0	0
Free nerve graft	0	0	0	0	0	0
Others	4	5	1	2	0	12
Unknown	1	5	2	1	1	10
<b>Total</b>	<b>178</b>	<b>471</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1164</b>

NOS: not otherwise specified.

Carcinoma of the Oropharynx p16 negative and unknown ----- 1164Cases

### 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.	148	334	118	231	37	868
1) Total N.D.	5	44	4	33	2	88
2) Selective N.D.	25	84	11	64	6	190
3) Lymph node excision	0	1	1	0	0	2
8) Others	0	2	1	1	0	4
9) Unknown	0	6	3	2	1	12
<b>Total</b>	<b>178</b>	<b>471</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1164</b>

NOS: not otherwise specified.

N.D.: neck dissection.

### Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Superior wall	Lateral wall	Posterior wall	Anterior wall	Oropharynx, NOS	Total
0) No N.D.	169	443	127	280	40	1059
1) Total N.D.	0	5	0	14	1	20
2) Selective N.D.	9	14	6	34	2	65
3) Lymph node excision	0	0	1	0	0	1
8) Others	0	3	1	1	2	7
9) Unknown	0	6	3	2	1	12
<b>Total</b>	<b>178</b>	<b>471</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1164</b>

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	125	201	74	156	18	574
1) X-ray (and/or electron beam)	52	266	61	170	27	576
2) Particle beam	0	0	0	1	0	1
3) B.T.	0	0	0	1	0	1
4) X-ray + Particle beam	0	0	0	1	0	1
5) X-ray + B.T.	0	0	0	0	0	0
6) Particle beam + B.T.	0	0	0	0	0	0
7) X-ray + Particle beam + B.T.	0	0	0	0	0	0
8) Others	0	1	0	0	0	1
9) Unknown	1	3	3	2	1	10
<b>Total</b>	<b>178</b>	<b>471</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1164</b>

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	137	239	75	166	20	637
1) I.V.	35	213	59	143	22	472
2) I.A.	2	6	1	12	1	22
3) Oral	3	6	2	5	0	16
4) I.V.+I.A.	0	0	0	1	0	1
5) I.V.+Oral	0	5	1	3	2	11
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	1	0	0	0	1
9) Unknown	1	1	0	1	1	4
<b>Total</b>	<b>178</b>	<b>471</b>	<b>138</b>	<b>331</b>	<b>46</b>	<b>1164</b>

I.V.: intravenous.

I.A.: intraarterial.

NOS: not otherwise specified.

# Nasopharynx(2020)

398 Cases

## Primary Site

Site	Number of patients	(%)
Posterosuperiorwall	174	(43.7)
Lateralwall	172	(43.2)
Inferiorwall	2	(0.5)
Nasopharynx, NOS	50	(12.6)
<b>Total</b>	<b>398</b>	<b>(100.0)</b>

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	5	1	6
20 - 29	9	1	10
30 - 39	19	7	26
40 - 49	46	15	61
50 - 59	53	19	72
60 - 69	80	18	98
70 - 79	69	34	103
80 - 89	11	10	21
90 - 99	1	0	1
100 - 109	0	0	0
110 - 119	0	0	0
<b>Total</b>	<b>293</b>	<b>105</b>	<b>398</b>

Carcinoma of the Nasopharynx ----- 398 Cases

## Histological Distribution by Subsite

Histologic type	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
S.C.C., NOS	102	111	2	32	247
S.C.C., keratinizing, NOS	4	5	0	0	9
Adenoid cystic ca.	4	4	0	1	9
S.C.C. in situ, NOS	1	0	0	0	1
Mucoepidermoid ca.	1	0	0	2	3
S.C.C., large cell, nonkerat., NOS	17	19	0	6	42
S.C.C., microinvasive	1	0	0	0	1
S.C.C., spindle cell	0	0	0	1	1
Myoepithelial ca.	0	1	0	0	1
Adenocarcinoma, NOS	2	0	0	0	2
S.C.C., small cell, nonkerat.	9	4	0	0	13
Malig. melanoma, NOS	0	1	0	0	1
Lymphoepithelial ca.	14	12	0	0	26
Malig. lymphoma, NOS	1	0	0	2	3
Ca., NOS	9	8	0	4	21
Ca., undifferentiated, NOS	5	3	0	0	8
Basal cell adenocarcinoma	0	0	0	1	1
Small cell ca., NOS	0	2	0	0	2
Basaloid S.C.C.	1	0	0	0	1
Transitional cell ca., NOS	0	1	0	0	1
Sarcoma, NOS	0	1	0	0	1
Follicular dendritic cell sarcoma	1	0	0	0	1
Papillary adenocarcinoma, NOS	2	0	0	0	2
Hodgkin lymphoma, NOS	0	0	0	1	1
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

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

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

S.C.C.: squamous cell carcinoma.

## T and N Status

	N0	N1	N2	N3	NX	N-	Total
T1	31	33(1)	23(3)	18(4)	0	0	105
T2	22	30(1)	20(3)	21(4)	0	0	93
T3	12	41(1)	25(1)	17(3)	0	0	95
T4	28(2)	34(7)	21(4)	14(3)	0	0	97
Tis	1	0	0	0	0	0	1
TX	0	0	0	0	4	0	4
T-	0	0	0	0	0	3	3
<b>Total</b>	<b>94</b>	<b>138</b>	<b>89</b>	<b>70</b>	<b>4</b>	<b>3</b>	<b>398</b>

M1:37 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	157	164	0	44	365
with	15	7	2	5	29
unknown	2	1	0	1	4
Radiotherapy					
without	17	14	2	8	41
with	155	157	0	41	353
unknown	2	1	0	1	4
Chemotherapy					
without	31	33	2	11	77
with	141	138	0	38	317
unknown	2	1	0	1	4
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

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	165	167	2	48	382
with	6	4	0	1	11
unknown	3	1	0	1	5
Radiotherapy					
without	32	41	2	21	96
with	139	130	0	28	297
unknown	3	1	0	1	5
Chemotherapy					
without	39	50	2	18	109
with	132	121	0	31	284
unknown	3	1	0	1	5
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

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	5	4	0	1	10
F)(Rad.+Chem.)	93	85	0	26	204
B) Rad. alone	17	25	0	6	48
F)C)(Rad.+Chem.)->Chem.	19	19	0	0	38
C)F) Chem. -> (Rad.+Chem.)	12	15	0	3	30
A) Surg. alone	9	0	2	3	14
C) Chem. alone	2	7	0	4	13
C)B) Chem.->Rad.	4	2	0	2	8
A)B) Surg.->Rad.	1	4	0	1	6
F)C)C)(Rad.+Chem.)->Chem.->Chem.	4	1	0	0	5
Other	8	10	0	4	22
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

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	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
No surgery	159	163	0	44	366
Others	11	6	2	5	24
Unknown	4	3	0	1	8
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

NOS: not otherwise specified.

### Reconstructive Surgery by Subsite

Reconstructive surgery	Postero-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No reconstruction	171	169	2	49	391
9) Unknown	3	2	0	1	6
E) Free ALT flap	0	1	0	0	1
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

NOS: not otherwise specified.

### Neck Dissection on the Ipsilateral Side by Subsite

Neck dissection	Posterioro- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	166	167	2	48	383
1) Total N.D.	1	1	0	0	2
2) Selective N.D.	2	2	0	0	4
3) Lymph node excision	1	0	0	0	1
8) Others	0	0	0	1	1
9) Unknown	4	2	0	1	7
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

NOS: not otherwise specified.

N.D.: neck dissection.

### Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Posterioro- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No N.D.	169	169	2	48	388
1) Total N.D.	1	0	0	0	1
2) Selective N.D.	0	1	0	0	1
3) Lymph node excision	0	0	0	0	0
8) Others	0	0	0	1	1
9) Unknown	4	2	0	1	7
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

NOS: not otherwise specified.

N.D.: neck dissection.

### Radiotherapy by Subsite

Type of radiotherapy	Posterioro- superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No radiotherapy	16	13	2	8	39
1) X-ray (and/or electron beam)	155	152	0	40	347
2) Particle beam	1	6	0	1	8
9) Unknown	2	1	0	1	4
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

NOS: not otherwise specified.

### Chemotherapy by Subsite

Route of administration	Posterior-superior wall	Lateral wall	Inferior wall	Nasopharynx, NOS	Total
0) No chemotherapy	31	33	2	11	77
1) I.V.	136	136	0	36	308
2) I.A.	2	0	0	2	4
3) Oral	0	1	0	0	1
4) I.V.+I.A.	2	0	0	0	2
5) I.V.+Oral	1	1	0	0	2
9) Unknown	2	1	0	1	4
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

Nasal Cavity and Paranasal Sinuses  
(Excluding the Maxillary Sinus)  
(2020)

483 Cases

## Primary Site

Site	Number of patients	(%)
Nasal cavity	282	(58.4)
Ethmoid sinus	100	(20.7)
Frontal sinus	9	(1.9)
Sphenoid sinus	14	(2.9)
Paranasal sinus,NOS	78	(16.1)
<b>Total</b>	<b>483</b>	<b>(100.0)</b>

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	2	2
20 - 29	3	2	5
30 - 39	11	11	22
40 - 49	30	23	53
50 - 59	57	16	73
60 - 69	68	40	108
70 - 79	97	41	138
80 - 89	42	34	76
90 - 99	4	2	6
100 - 109	0	0	0
110 - 119	0	0	0
<b>Total</b>	<b>312</b>	<b>171</b>	<b>483</b>

NOS: not otherwise specified.

Carcinoma of the Nasal Cavity and Paranasal Sinuses -----483 Cases

## Histological Distribution by Subsite

Histologic type	Nasal cavity	Ethmoid sinus	Frontal sinus	Sphenoid sinus	Paranasal sinus, NOS	Total
S.C.C., NOS	95	49	6	8	18	176
S.C.C., keratinizing, NOS	5	4	0	0	1	10
Adenoid cystic ca.	17	2	0	1	4	24
S.C.C. in situ, NOS	7	0	0	0	0	7
S.C.C., large cell, nonkeratinizing, NOS	2	0	2	1	1	6
S.C.C., microinvasive	0	0	0	0	1	1
S.C.C., spindle cell	0	1	0	0	0	1
Myoepithelial ca.	2	1	0	0	0	3
Adenocarcinoma, NOS	11	5	0	0	1	17
S.C.C., small cell, nonkeratinizing	0	2	0	0	0	2
Malig. melanoma, NOS	60	6	0	1	15	82
Malig. lymphoma, NOS	8	0	0	0	2	10
Olfactory neuroblastoma	32	6	0	0	17	55
Ca., NOS	10	6	1	0	2	19
Spindle cell ca., NOS	0	0	0	1	0	1
Ca., undiff., NOS	6	3	0	0	2	11
Basal cell adenocarcinoma	0	1	0	0	0	1
Neoplasm, malig.	2	1	0	0	0	3
Papillary S.C.C.	1	1	0	0	0	2
Epithelial-myoepithelial ca.	2	0	0	0	1	3
Small cell ca., NOS	5	4	0	1	4	14
Basaloid S.C.C.	1	0	0	0	0	1
Carcinoid tumor, NOS	2	1	0	0	0	3
Hemangiosarcoma	0	0	0	0	1	1
Carcinosarcoma, NOS	0	0	0	0	2	2
Chondrosarcoma, NOS	1	0	0	0	0	1
Large cell ca., NOS	1	0	0	0	0	1
Basal cell ca., NOS	0	0	0	0	1	1
Alveolar rhabdomyosarcoma	3	3	0	0	0	6
Extraskletal Ewing's sarcoma	1	0	0	0	0	1
Rhabdomyosarcoma, NOS	2	1	0	0	3	6
Sarcoma, NOS	0	0	0	0	1	1
Esthesioneurocytoma	1	0	0	0	0	1
Mixed tumor, malig., NOS	0	1	0	0	0	1
Fibrosarcoma, NOS	1	0	0	0	1	2
Malig. teratoma, undiff.	0	2	0	0	0	2
Leiomyosarcoma, NOS	1	0	0	0	0	1
Myofibroblastic tumor, NOS	1	0	0	0	0	1
Neuroendocrine ca., NOS	0	0	0	1	0	1
Combined squamous cell and small cell neuroendocrine ca.	1	0	0	0	0	1
Round cell tumor, neuroendocrine tumor	1	0	0	0	0	1
<b>Total</b>	<b>282</b>	<b>100</b>	<b>9</b>	<b>14</b>	<b>78</b>	<b>483</b>

NOS: not otherwise specified.

ca., Ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

malig., Malig.: malignant.

nonkerat.: nonkeratinizing.

## T and N Status

	N0	N1	N2	N2a	N2b	N2c	N3	N3a	N3b	NX	N-	Total
T0	1	0	0	0	0	0	0	0	0	0	0	1
T1	61	0	0	0	2	2	0	0	0	0	0	65
T2	43	3(1)	0	0	2	1	0	0	0	0	0	49
T3	77(2)	3	0	1	1	3(1)	0	0	0	0	0	85
T4	12	0	0	1	0	2	0	0	0	0	0	15
T4a	75(6)	12(6)	0	1	4	5(1)	1	0	1	0	0	99
T4b	85(6)	12(3)	2	0	4	2	1	0	2(1)	1	0	109
Tis	4	0	0	0	0	0	0	0	0	0	0	4
TX	9	0	0	0	0	0	0	0	0	4	0	13
T-	5	0	0	0	0	1	0	0	0	0	37	43
<b>Total</b>	<b>372</b>	<b>30</b>	<b>2</b>	<b>3</b>	<b>13</b>	<b>16</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>37</b>	<b>483</b>

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
<b>Surgery</b>						
without	123	68	5	12	26	234
with	149	30	3	1	51	234
unknown	10	2	1	1	1	15
<b>Radiotherapy</b>						
without	105	19	3	0	27	154
with	167	79	5	13	50	314
unknown	10	2	1	1	1	15
<b>Chemotherapy</b>						
without	171	41	2	2	46	262
with	101	57	6	11	31	206
unknown	10	2	1	1	1	15
<b>Total</b>	<b>282</b>	<b>100</b>	<b>9</b>	<b>14</b>	<b>78</b>	<b>483</b>

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	249	93	6	13	70	431
with	23	5	2	0	7	37
unknown	10	2	1	1	1	15
Radiotherapy						
without	233	81	6	7	62	389
with	39	17	2	6	15	79
unknown	10	2	1	1	1	15
Chemotherapy						
without	228	72	4	7	60	371
with	44	26	4	6	17	97
unknown	10	2	1	1	1	15
<b>Total</b>	<b>282</b>	<b>100</b>	<b>9</b>	<b>14</b>	<b>78</b>	<b>483</b>

NOS: not otherwise specified.

### 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	8	1	0	0	2	11
A) Surg. alone	72	7	1	0	21	101
B) Rad. alone	48	18	1	1	6	74
A)B) Surg.->Rad.	37	13	0	1	15	66
F)(Rad.+Chem.)	30	14	0	6	7	57
C) Chem. alone	14	8	1	0	4	27
C)F) Chem. -> (Rad.+Chem.)	4	10	0	1	1	16
A)F) Surg.->(Rad.+Chem.)	5	6	1	0	3	15
B)C) Rad.->Chem.	5	1	0	2	3	11
C)B) Chem.->Rad.	6	3	0	1	1	11
A)B)C) Surg.->Rad.->Chem.	5	0	0	0	2	7
C)A) Chem.->Surg.	6	1	0	0	0	7
F)C)(Rad.+Chem.)->Chem.	2	3	1	0	0	6
Other	30	13	3	1	12	59
Unknown	10	2	1	1	1	15
<b>Total</b>	<b>282</b>	<b>100</b>	<b>9</b>	<b>14</b>	<b>78</b>	<b>483</b>

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
No surgery	123	68	5	12	28	236
Maxillectomy, other type	51	7	0	0	9	67
Endoscopic skull base surgery	27	7	0	1	14	49
Partial maxillectomy	20	1	0	0	4	25
Skull base surgery	11	5	3	0	2	21
Extended maxillectomy	4	1	0	0	1	6
Total maxillectomy	2	0	0	0	1	3
Others	34	9	0	0	17	60
Unknown	10	2	1	1	2	16
<b>Total</b>	<b>282</b>	<b>100</b>	<b>9</b>	<b>14</b>	<b>78</b>	<b>483</b>

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	229	88	5	13	51	386
3) Mucosal flap	13	0	0	0	10	23
2) Local skin flap	9	2	0	0	2	13
D) Free RA MC flap	5	2	0	0	4	11
E) Free ALT flap	2	4	3	0	1	10
C) Free FA flap	2	0	0	0	0	2
1) Skin graft	1	0	0	0	0	1
G) Free fibular OC flap	1	0	0	0	0	1
Others	10	2	0	0	6	18
9) Unknown	10	2	1	1	4	18
<b>Total</b>	<b>282</b>	<b>100</b>	<b>9</b>	<b>14</b>	<b>78</b>	<b>483</b>

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.	166	167	2	48	383
1) Total N.D.	1	1	0	0	2
2) Selective N.D.	2	2	0	0	4
3) Lymph node excision	1	0	0	0	1
8) Others	0	0	0	1	1
9) Unknown	4	2	0	1	7
<b>Total</b>	<b>174</b>	<b>172</b>	<b>2</b>	<b>50</b>	<b>398</b>

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.	265	98	8	13	73	457
1) Total N.D.	1	0	0	0	0	1
2) Selective N.D.	4	0	0	0	1	5
3) Lymph node excision	0	0	0	0	0	0
8) Others	2	0	0	0	1	3
9) Unknown	10	2	1	1	3	17
<b>Total</b>	<b>282</b>	<b>100</b>	<b>9</b>	<b>14</b>	<b>78</b>	<b>483</b>

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	104	17	2	0	26	149
1) X-ray (and/or electron beam)	127	71	6	10	40	254
2) Particle beam	40	8	0	3	11	62
4) X-ray + Particle beam	0	1	0	0	0	1
9) Unknown	11	3	1	1	1	17
<b>Total</b>	<b>282</b>	<b>100</b>	<b>9</b>	<b>14</b>	<b>78</b>	<b>483</b>

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	170	40	2	2	46	260
1) I.V.	92	54	6	10	29	191
2) I.A.	8	1	0	1	1	11
3) Oral	1	0	0	0	0	1
4) I.V.+I.A.	0	1	0	0	0	1
5) I.V.+Oral	1	1	0	0	0	2
9) Unknown	10	3	1	1	2	17
<b>Total</b>	<b>282</b>	<b>100</b>	<b>9</b>	<b>14</b>	<b>78</b>	<b>483</b>

NOS: not otherwise specified.

I.V.: intravenous.

I.A.: intraarterial.

# Maxillary Sinus (2020)

425 Cases

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	1	1
20 - 29	1	0	1
30 - 39	5	5	10
40 - 49	17	6	23
50 - 59	44	14	58
60 - 69	108	23	131
70 - 79	108	33	141
80 - 89	37	20	57
90 - 99	2	1	3
100 - 109	0	0	0
Total	322	103	425

Carcinoma of the Maxillary Sinus ----- 425 Cases

Histological Distribution by Subsite

Histologic type	Total	( % )
S.C.C., NOS	302	( 71.1 )
S.C.C., keratinizing, NOS	19	( 4.5 )
Adenoid cystic ca.	19	( 4.5 )
Adenocarcinoma, NOS	10	( 2.4 )
Ca., NOS	8	( 1.9 )
Ca., undiff., NOS	8	( 1.9 )
Malig. lymphoma, NOS	7	( 1.6 )
S.C.C., large cell, nonkeratinizing, NOS	6	( 1.4 )
Malig. melanoma, NOS	6	( 1.4 )
S.C.C., spindle cell	5	( 1.2 )
Mucoepidermoid ca.	4	( 0.9 )
Spindle cell ca., NOS	4	( 0.9 )
Neoplasm, malig.	4	( 0.9 )
Carcinosarcoma, NOS	4	( 0.9 )
Small cell ca., NOS	3	( 0.7 )
Hemangiosarcoma	3	( 0.7 )
S.C.C., small cell, nonkeratinizing	2	( 0.5 )
Basaloid S.C.C.	2	( 0.5 )
Lymphoepithelial ca.	1	( 0.2 )
Olfactory neuroblastoma	1	( 0.2 )
Papillary S.C.C.	1	( 0.2 )
Transitional cell ca., NOS	1	( 0.2 )
Spindle cell sarcoma	1	( 0.2 )
Malig. teratoma, undiff.	1	( 0.2 )
Cystadenocarcinoma	1	( 0.2 )
Malig. fibrous histiocyoma	1	( 0.2 )
Undiff. pleomorphic sarcoma	1	( 0.2 )
<b>Total</b>	<b>425</b>	<b>( 100.0 )</b>

NOS : Not Otherwise Specified  
malig., Malig.: malignant.

ca., Ca.: carcinoma.  
undiff.: undifferentiated.

S.C.C.: squamous cell carcinoma.

## 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	1	0	0	0	0	0	0	0	0	0	0	1
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	8	2	0	0	0	0	0	0	0	0	0	10
T3	96(1)	6(1)	0	0	9	4	0	0	0	0	0	115
T4	5	0	1	0	0	0	0	0	0	0	0	6
T4a	144(6)	22	0	1	20	18(1)	0	0	3	0	0	208
T4b	44(1)	11(1)	0	0	7(1)	6(1)	1	0	1	0	0	70
Tis	0	0	0	0	0	0	0	0	0	0	0	0
TX	5	0	0	0	0	0	0	0	0	0	0	5
T-	1	0	0	0	0	0	0	0	0	0	8	9
<b>Total</b>	<b>305</b>	<b>41</b>	<b>1</b>	<b>1</b>	<b>36</b>	<b>28</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>8</b>	<b>425</b>

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

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

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

## Treatment Method for the Primary Lesion by Subsite

Treatment Method	Total (%)
Surgery	
without	277 ( 65.2 )
with	144 ( 33.9 )
unknown	4 ( 0.9 )
Radiotherapy	
without	78 ( 18.4 )
with	343 ( 80.7 )
unknown	4 ( 0.9 )
Chemotherapy	
without	138 ( 32.5 )
with	283 ( 66.6 )
unknown	4 ( 0.9 )
<b>Total</b>	<b>425 ( 100 )</b>

### Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Total ( % )
Surgery	
without	339 ( 79.8 )
with	81 ( 19.1 )
unknown	5 ( 1.2 )
Radiotherapy	
without	266 ( 62.6 )
with	154 ( 36.2 )
unknown	5 ( 1.2 )
Chemotherapy	
without	275 ( 64.7 )
with	145 ( 34.1 )
unknown	5 ( 1.2 )
Total	425 ( 100.0 )



Sequence of Treatment Methods for the Primary Lesion by Subsite

Sequence of treatment methods	Total ( % )
No treatment	20 ( 4.7 )
F)(Rad.+Chem.)	160 ( 37.6 )
B) Rad. alone	40 ( 9.4 )
A)B) Surg.->Rad.	39 ( 9.2 )
A) Surg. alone	31 ( 7.3 )
A)F) Surg.->(Rad.+Chem.)	25 ( 5.9 )
F)A)(Rad.+Chem.)->Surg.	17 ( 4.0 )
C)F) Chem. -> (Rad.+Chem.)	16 ( 3.8 )
C) Chem. alone	13 ( 3.1 )
C)A) Chem.->Surg.	7 ( 1.6 )
F)C)(Rad.+Chem.)->Chem.	7 ( 1.6 )
C)B) Chem.->Rad.	5 ( 1.2 )
B)C) Rad.->Chem.	4 ( 0.9 )
Other	37 ( 8.7 )
Unknown	4 ( 0.9 )
<b>Total</b>	<b>425 ( 100.0 )</b>

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

## Surgical Methods for the Primary Lesion by Subsite

Surgical method	Total ( % )
X0 No surgery	277 ( 65.2 )
D2 Total maxillectomy	70 ( 16.5 )
D1 Partial maxillectomy	35 ( 8.2 )
D3 Extended maxillectomy	14 ( 3.3 )
D9 Maxillectomy, other type	11 ( 2.6 )
D4 Skull base surgery	4 ( 0.9 )
F1 Endoscopic resection	2 ( 0.5 )
Others	4 ( 0.9 )
V9 Unknown	8 ( 1.9 )
<b>Total</b>	<b>425 ( 100 )</b>

## Reconstructive Surgery by Subsite

Reconstructive surgery	Total ( % )
0) No reconstruction	337 ( 79.3 )
D) Free RA MC flap	46 ( 10.8 )
1) Skin graft	9 ( 2.1 )
C) Free FA flap	8 ( 1.9 )
E) Free ALT flap	5 ( 1.2 )
G) Free fibular OC flap	4 ( 0.9 )
3) Mucosal flap	2 ( 0.5 )
5) PM MC flap	1 ( 0.2 )
F) Free scapular OC flap	1 ( 0.2 )
Others	4 ( 0.9 )
9) Unknown	8 ( 1.9 )
<b>Total</b>	<b>425 ( 100.0 )</b>

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	Total ( % )
0) No N.D.	341 ( 80.2 )
1) Total N.D.	18 ( 4.2 )
2) Selective N.D.	56 ( 13.2 )
9) Unknown	10 ( 2.4 )
<b>Total</b>	<b>425 ( 100.0 )</b>

N.D.: neck dissection.

### Neck Dissection on the Contralateral Side by Subsite

Neck dissection	Total ( % )
0) No N.D.	406 ( 95.5 )
1) Total N.D.	3 ( 0.7 )
2) Selective N.D.	3 ( 0.7 )
8) Others	3 ( 0.7 )
9) Unknown	10 ( 2.4 )
<b>Total</b>	<b>425 ( 100.0 )</b>

N.D.: neck dissection.

### Radiotherapy by Subsite

Type of radiotherapy	Total ( % )
0) No radiotherapy	73 ( 17.2 )
1) X-ray (and/or electron beam)	325 ( 76.5 )
2) Particle beam	19 ( 4.5 )
9) Unknown	8 ( 1.9 )
<b>Total</b>	<b>425 ( 100 )</b>

### Chemotherapy by Subsite

Route of administration	Total ( % )
0) No chemotherapy	132 ( 31.1 )
1) I.V.	125 ( 29.4 )
2) I.A.	146 ( 34.4 )
3) Oral	4 ( 0.9 )
4) I.V.+I.A.	7 ( 1.6 )
5) I.V.+Oral	2 ( 0.5 )
6) I.A.+Oral	2 ( 0.5 )
8) Others	1 ( 0.2 )
9) Unknown	6 ( 1.4 )
<b>Total</b>	<b>425 ( 100 )</b>

I.V.: intravenous.

I.A.: intraarterial.

# Major Salivary Glands (2020)

725 Cases

## Primary Site

Site	Number of patients	(%)
Parotid gland	509	( 70.2 )
Submandibular gland	186	( 25.7 )
Sublingual gland	27	( 3.7 )
Majorsalivary gland, NOS	3	( 0.4 )
<b>Total</b>	<b>725</b>	<b>( 100 )</b>

NOS: not otherwise specified.

## Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	4	5
20 - 29	8	9	17
30 - 39	22	21	43
40 - 49	39	40	79
50 - 59	59	35	94
60 - 69	128	54	182
70 - 79	128	80	208
80 - 89	56	35	91
90 - 99	2	3	5
100 - 109	1	0	1
<b>Total</b>	<b>444</b>	<b>281</b>	<b>725</b>

NOS: not otherwise specified.

## Parotid gland

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	1	4	5
20 - 29	6	8	14
30 - 39	18	17	35
40 - 49	28	28	56
50 - 59	38	23	61
60 - 69	85	35	120
70 - 79	98	50	148
80 - 89	46	20	66
90 - 99	2	2	4
100 - 109	0	0	0
Total	322	187	509

## Submandibular gland

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	2	1	3
30 - 39	4	2	6
40 - 49	9	11	20
50 - 59	19	10	29
60 - 69	38	16	54
70 - 79	24	26	50
80 - 89	8	14	22
90 - 99	0	1	1
100 - 109	1	0	1
Total	105	81	186

## Sublingual gland

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	0	0
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	2	2
40 - 49	2	0	2
50 - 59	2	2	4
60 - 69	5	3	8
70 - 79	5	4	9
80 - 89	1	1	2
90 - 99	0	0	0
100 - 109	0	0	0
<b>Total</b>	<b>15</b>	<b>12</b>	<b>27</b>

## 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	1	1
50 - 59	0	0	0
60 - 69	0	0	0
70 - 79	1	0	1
80 - 89	1	0	1
90 - 99	0	0	0
100 - 109	0	0	0
<b>Total</b>	<b>2</b>	<b>1</b>	<b>3</b>

NOS : Not Otherwise Specified



Carcinoma of the Major Salivary Glands -----725 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.	113	50	2	0	165
Adenoid cystic ca.	50	57	17	0	124
Mucoepidermoid ca.	85	13	2	1	101
S.C.C., NOS	47	14	0	1	62
Ca. ex pleomorphic adenoma	50	12	0	0	62
Adenocarcinoma, NOS	25	12	3	0	40
Ca., NOS	27	5	1	0	33
Epithelial-myoepithelial ca.	25	2	1	0	28
Acinar cell ca.	22	1	0	0	23
Myoepithelial ca.	15	4	0	1	20
Malig. lymphoma, NOS	9	4	0	0	13
Basal cell adenocarcinoma	6	2	0	0	8
Mucinous adenocarcinoma	6	0	0	0	6
Neoplasm, malig.	3	1	0	0	4
Hemangiosarcoma	4	0	0	0	4
Secretory ca. of breast	4	0	0	0	4
Cystadenocarcinoma	3	0	0	0	3
S.C.C., keratinizing, NOS	2	0	0	0	2
Ca., undiff., NOS	1	0	1	0	2
Mammary Analogue Secretory Ca.	2	0	0	0	2
Carcinosarcoma, NOS	0	2	0	0	2
Adenosquamous ca.	1	1	0	0	2
Polymorphous low grade adenocarcinoma	2	0	0	0	2
S.C.C. in situ, NOS	0	1	0	0	1
S.C.C., large cell, nonkerat., NOS	1	0	0	0	1
Lymphoepithelial ca.	1	0	0	0	1
Small cell ca., NOS	1	0	0	0	1
Basaloid S.C.C.	0	1	0	0	1
Clear cell ca., NOS	0	1	0	0	1
Basal cell ca., NOS	1	0	0	0	1
Mixed tumor, malig., NOS	1	0	0	0	1
Giant cell sarcoma	1	0	0	0	1
Malig. teratoma, undiff.	0	1	0	0	1
Leiomyosarcoma, NOS	0	1	0	0	1
Histiocytic sarcoma	0	1	0	0	1
Malig. lymphoma, large B-cell, diffuse, NOS	1	0	0	0	1
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

NOS: not otherwise specified.

ca., Ca.: carcinoma.

S.C.C.: squamous cell carcinoma.

malig., Malig.: malignant.

nonkerat.: nonkeratinizing.

## T and N Status

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	4	0	0	0	0	0	0	0	0	0	0	4
T1	76(1)	3	1	2	5(2)	2	0	0	0	2	0	91
T2	179(4)	13(1)	0	2(1)	25(4)	0	0	0	2	0	0	221
T3	122(11)	10(2)	2	3	36(7)	6(5)	0	0	9	1	0	189
T4	5	1	1	0	2	0	1	0	0	1	0	11
T4a	73(6)	12(1)	2	2	50(12)	5(3)	0	0	11(6)	0	0	155
T4b	3	0	0	0	6(1)	0	1	0	5(2)	0	0	15
TX	4(1)	1	0	0	1	0	0	0	0	19	0	25
T-	0	0	0	0	0	0	0	0	0	0	14	14
<b>Total</b>	<b>466</b>	<b>40</b>	<b>6</b>	<b>9</b>	<b>125</b>	<b>13</b>	<b>2</b>	<b>0</b>	<b>27</b>	<b>23</b>	<b>14</b>	<b>725</b>

M1:70 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

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	2	0	0	0	0	0	0	0	0	0	0	2
T1	58	0	0	1	2(1)	1	0	0	0	2	0	64
T2	132	7	0	0	12(2)	0	0	0	1	0	0	152
T3	80(3)	5(1)	1	1	23(5)	3(2)	0	0	4	0	0	117
T4	5	1	1	0	1	0	1	0	0	0	0	9
T4a	66(5)	10	1	2	35(9)	3(2)	0	0	9(5)	0	0	126
T4b	3	0	0	0	3(1)	0	1	0	5(2)	0	0	12
TX	2	0	0	0	0	0	0	0	0	15	0	17
T-	0	0	0	0	0	0	0	0	0	0	10	10
<b>Total</b>	<b>348</b>	<b>23</b>	<b>3</b>	<b>4</b>	<b>76</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>19</b>	<b>17</b>	<b>10</b>	<b>509</b>

M1:38 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

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	2	0	0	0	0	0	0	0	0	0	0	2
T1	16(1)	2	1	1	3(1)	1	0	0	0	0	0	24
T2	41(2)	6(1)	0	1(1)	11(2)	0	0	0	1	0	0	60
T3	32(5)	3	1	2	11(1)	3(3)	0	0	5	1	0	58
T4	0	0	0	0	1	0	0	0	0	1	0	2
T4a	5	1	1	0	15(3)	2(1)	0	0	2(1)	0	0	26
T4b	0	0	0	0	3	0	0	0	0	0	0	3
TX	1(1)	1	0	0	1	0	0	0	0	4	0	7
T-	0	0	0	0	0	0	0	0	0	0	4	4
<b>Total</b>	<b>97</b>	<b>13</b>	<b>3</b>	<b>4</b>	<b>45</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>6</b>	<b>4</b>	<b>186</b>

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

	<b>N0</b>	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
T0	0	0	0	0	0	0	0	0	0	0	0	0
T1	2	1	0	0	0	0	0	0	0	0	0	3
T2	5(2)	0	0	1	2	0	0	0	0	0	0	8
T3	8(2)	2(1)	0	0	2(1)	0	0	0	0	0	0	12
T4	0	0	0	0	0	0	0	0	0	0	0	0
T4a	2(1)	1(1)	0	0	0	0	0	0	0	0	0	3
T4b	0	0	0	0	0	0	0	0	0	0	0	0
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
<b>Total</b>	<b>18</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>

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

## 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	2(1)	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	0	0	0	0	0	0	0
T4b	0	0	0	0	0	0	0	0	0	0	0	0
TX	0	0	0	0	0	0	0	0	0	0	0	0
T-	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>

NOS : Not Otherwise Specified

M1:1 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
<b>Surgery</b>					
without	61	25	7	0	93
with	442	159	19	3	623
unknown	6	2	1	0	9
<b>Radiotherapy</b>					
without	250	92	15	1	358
with	253	92	11	2	358
unknown	6	2	1	0	9
<b>Chemotherapy</b>					
without	409	138	23	1	571
with	94	46	3	2	145
unknown	6	2	1	0	9
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

NOS: not otherwise specified.

### Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
Surgery					
without	256	53	13	1	323
with	245	129	13	2	389
unknown	8	4	1	0	13
Radiotherapy					
without	332	108	18	0	458
with	169	74	8	3	254
unknown	8	4	1	0	13
Chemotherapy					
without	423	146	24	1	594
with	78	36	2	2	118
unknown	8	4	1	0	13
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

NOS: not otherwise specified.

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

Sequence of treatment methods	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
No treatment	11	4	1	0	16
A) Surg. alone	207	72	13	0	292
A)B) Surg.->Rad.	157	58	5	1	221
A)F) Surg.->(Rad.+Chem.)	44	18	1	1	64
B) Rad. alone	19	4	4	0	27
C) Chem. alone	13	9	1	0	23
A)C) Surg. -> Chem	7	4	0	0	11
F)(Rad.+Chem.)	4	1	1	0	6
A)A) Surg.->Surg.	3	1	0	0	4
C)C)C) Chem.->Chem.->Chem.	1	3	0	0	4
D)(Surg.+Rad.)	3	1	0	0	4
A)F)C) Surg.->(Rad.+Chem.)->Chem.	2	1	0	0	3
Other	32	8	0	1	41
Unknown	6	2	1	0	9
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

Surg.: surgery.

Rad.: radiotherapy.

Chem.: chemotherapy.

Treatment methods in parentheses were given concurrently.

NOS: not otherwise specified.

## Surgical Methods for the Primary Lesion by Subsite

Surgical method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
No surgery	62	25	7	1	95
Total parotidectomy	168	1	1	0	170
Submandibulectomy	0	147	0	0	147
Superficial parotidectomy	138	0	1	0	139
Extended total parotidectomy	50	0	0	0	50
Partial parotidectomy	41	0	0	0	41
Deep lobe resection of the parotid gland	35	0	0	0	35
Resection of the sublingual gland	0	0	11	0	11
Resection of the floor of mouth	0	3	5	0	8
Paroticectomy, NOS	3	1	0	2	6
Others	6	6	1	0	13
Unknown	6	3	1	0	10
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

NOS: not otherwise specified.

## Reconstructive Surgery by Subsite

Reconstructive surgery	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No reconstruction	379	164	17	3	563
1) Free nerve graft	48	1	0	0	49
E) Free ALT flap	32	4	3	0	39
D) Free RA MC flap	15	4	1	0	20
5) PM MC flap	9	4	0	0	13
2) Local skin flap	8	0	1	0	9
4) DP flap	2	1	0	0	3
C) Free FA flap	0	0	2	0	2
G) Free fibular OC flap	0	1	1	0	2
1) Skin graft	1	0	0	0	1
Others	7	2	1	0	10
9) Unknown	8	5	1	0	14
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

RA: rectus abdominis.

MC: musculocutaneous.

ALT: anterolateral thigh.

FA: forearm.

PM: pectoralis major.

OC: osteocutaneous.

DP: deltopectoral.

NOS: not otherwise specified.

### Neck Dissection on the Ipsilateral Side by Subsite

Treatment Method	Parotid gland (C07.9)	Sub-mandibular gland (C08.0)	Sub-lingual gland (C08.1)	Major salivary gland, NOS (C08.9)	Total
0) No N.D.	257	53	13	2	325
1) Total N.D.	61	24	0	0	85
2) Selective N.D.	160	100	13	0	273
3) Lymph node excision	15	5	0	1	21
8) Others	9	1	0	0	10
9) Unknown	7	3	1	0	11
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

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.	488	176	23	3	690
1) Total N.D.	2	2	0	0	4
2) Selective N.D.	3	4	3	0	10
3) Lymph node excision	2	0	0	0	2
8) Others	7	0	0	0	7
9) Unknown	7	4	1	0	12
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

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	232	85	15	0	332
1) X-ray (and/or electron beam)	240	89	7	0	336
2) Particle beam	27	6	4	3	40
8) Others	1	0	0	0	1
9) Unknown	9	6	1	0	16
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

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	404	134	22	1	561
1) I.V.	86	43	4	2	135
3) Oral	7	1	0	0	8
5) I.V.+Oral	2	1	0	0	3
8) Others	1	1	0	0	2
9) Unknown	9	6	1	0	16
<b>Total</b>	<b>509</b>	<b>186</b>	<b>27</b>	<b>3</b>	<b>725</b>

NOS: not otherwise specified.

I.V.: intravenous.



# Primary Unknown (2020)

136 Cases

## Subtype

<b>Subtype</b>	<b>Number of patients (%)</b>	
EBV positive	1	0.7
p16 positive	54	39.7
Other	81	59.6
<b>Total</b>	<b>136</b>	<b>100</b>

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

## Age Distribution by Gender

<b>Age</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
0 - 9	0	1	1
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	10	1	11
50 - 59	29	3	32
60 - 69	35	8	43
70 - 79	32	5	37
80 - 89	10	2	12
90 - 99	0	0	0
100 - 109	0	0	0
<b>Total</b>	<b>116</b>	<b>20</b>	<b>136</b>

Primary Unknown-----136 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	1	0	1
70 - 79	0	0	0
80 - 89	0	0	0
90 - 99	0	0	0
100 - 109	0	0	0
Total	1	0	1

## 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	8	1	9
50 - 59	14	2	16
60 - 69	12	3	15
70 - 79	10	2	12
80 - 89	2	0	2
90 - 99	0	0	0
100 - 109	0	0	0
Total	46	8	54

Primary Unknown-----136 Cases

## Other

### Age Distribution by Gender

Age	Male	Female	Total
0 - 9	0	1	1
10 - 19	0	0	0
20 - 29	0	0	0
30 - 39	0	0	0
40 - 49	2	0	2
50 - 59	15	1	16
60 - 69	22	5	27
70 - 79	22	3	25
80 - 89	8	2	10
90 - 99	0	0	0
100 - 109	0	0	0
<b>Total</b>	<b>69</b>	<b>12</b>	<b>81</b>

### EBV positive N and M Status

	N1	N2	N3	NX	N-	Total
M0	1	0	0	0	0	1
M1	0	0	0	0	0	0
MX	0	0	0	0	0	0
M-	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>

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

M-: without reported M classification

## p16 positive N and M Status

	<b>N1</b>	<b>N2</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
M0	31	7	1	4	1	8	0	0	52
M1	0	1	0	0	0	1	0	0	2
MX	0	0	0	0	0	0	0	0	0
M-	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>31</b>	<b>8</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>54</b>

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

M-: without reported M classification

## Other N and M Status

	<b>N1</b>	<b>N2a</b>	<b>N2b</b>	<b>N2c</b>	<b>N3a</b>	<b>N3b</b>	<b>NX</b>	<b>N-</b>	<b>Total</b>
M0	7	6	17	5	2	37	1	0	75
M1	0	1	0	0	0	5	0	0	6
MX	0	0	0	0	0	0	0	0	0
M-	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>7</b>	<b>7</b>	<b>17</b>	<b>5</b>	<b>2</b>	<b>42</b>	<b>1</b>	<b>0</b>	<b>81</b>

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

M-: without reported M classification

### Treatment Methods for the Primary Lesion by Subsite

Treatment Method	EBV positive	p16 positive	Other	Total
Surgery				
without	1	43	73	117
with	0	11	6	17
unknown	0	0	2	2
Radiotherapy				
without	1	31	51	83
with	0	23	28	51
unknown	0	0	2	2
Chemotherapy				
without	1	37	59	97
with	0	17	20	37
unknown	0	0	2	2
<b>Total</b>	<b>1</b>	<b>54</b>	<b>81</b>	<b>136</b>

Primary Unknown-----136 Cases

### Treatment Method for the Cervical Lymph Nodes by Subsite

Treatment Method	EBV positive	p16 positive	Other	Total
Surgery				
without	1	24	33	58
with	0	30	48	78
unknown	0	0	0	0
Radiotherapy				
without	0	15	19	34
with	1	39	62	102
unknown	0	0	0	0
Chemotherapy				
without	0	22	36	58
with	1	32	45	78
unknown	0	0	0	0
Total	1	54	81	136

Primary Unknown-----136 Cases

Sequence of Treatment Methods for the Cervical Lymph Nodes by Subtype

Sequence of treatment methods	EBV positive	p16 positive	Other	Total
F)(Rad.+Chem.)	1	18	11	30
A)F) Surg.->(Rad.+Chem.)	0	11	18	29
A) Surg. alone	0	12	14	26
B) Rad. alone	0	3	10	13
A)B) Surg.->Rad.	0	4	8	12
C)F) Chem. -> (Rad.+Chem.)	0	1	3	4
No treatment	0	1	1	2
A)D) Surg. alone->(Surg.+Rad.)	0	1	1	2
C) Chem. alone	0	1	1	2
C)C)Chem.->Chem.	0	1	1	2
C)F)C) Chem.-> (Rad.+Chem.)->Chem.	0	0	2	2
A)A) Surg.->Surg.	0	0	1	1
A)C) Surg. -> Chem	0	0	1	1
A)F)H) Surg.->(Rad.+Chem.)->Nonspecific Immunotherapy	0	0	1	1
B)A) Rad.->Surg.	0	0	1	1
B)C) Rad.->Chem.	0	0	1	1
B)C)C) Rad.->Chem. -> Chem.	0	0	1	1
C)A)F) Chem.->Surg.->(Rad.+Chem.)	0	0	1	1
C)B) Chem.->Rad.	0	0	1	1
D)(Surg.+Rad.)	0	1	0	1
F)C)(Rad.+Chem.)->Chem.	0	0	1	1
F)C)C)(Rad.+Chem.)->Chem.->Chem.	0	0	1	1
G)Surg.+Rad.+Chem.	0	0	1	1
Total	1	54	81	136

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.	1	24	34	59
1) Total N.D.	0	10	21	31
2) Selective N.D.	0	20	24	44
3) Lymph node excision	0	0	2	2
8) Others	0	0	0	0
9) Unknown	0	0	0	0
<b>Total</b>	<b>1</b>	<b>54</b>	<b>81</b>	<b>136</b>

N.D.: neck dissection.

### Neck Dissection on the Contralateral Side by Subtype

Neck dissection	EBV positive	p16 positive	Other	Total
0) No N.D.	1	52	77	130
1) Total N.D.	0	1	0	1
2) Selective N.D.	0	1	4	5
3) Lymph node excision	0	0	0	0
8) Others	0	0	0	0
9) Unknown	0	0	0	0
<b>Total</b>	<b>1</b>	<b>54</b>	<b>81</b>	<b>136</b>

N.D.: neck dissection.

### Radiotherapy by Subtype

Type of radiotherapy	EBV positive	p16 positive	Other	Total
0) No radiotherapy	0	12	19	31
1) X-ray (and/or electron beam)	1	42	62	105
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) Particle beam + B.T.	0	0	0	0
7) X-ray + Particle beam + B.T.	0	0	0	0
8) Others	0	0	0	0
9) Unknown	0	0	0	0
<b>Total</b>	<b>1</b>	<b>54</b>	<b>81</b>	<b>136</b>

B.T.: brachytherapy.

### Chemotherapy by Subtype

Route of administration	EBV positive	p16 positive	Other	Total
0) No chemotherapy	0	20	35	55
1) I.V.	1	34	44	79
2) I.A.	0	0	1	1
3) Oral	0	0	1	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
<b>Total</b>	<b>1</b>	<b>54</b>	<b>81</b>	<b>136</b>

I.V.: intravenous.

I.A.: intraarterial.