Table 1: Table S5: Conversion table of histology codes into ICD-O-3 histologically 'different' groups and histological subtypes of lung cancer

| **Histology Code** | **Groups histologically ‘different’** (ICD-O-3 rev 1) | **Histological type of lung cancer** (IARC classification) | **Histology Code** | **Groups histologically ‘different’** (ICD-O-3 rev 1) | **Histological type of lung cancer** (IARC classification) |
| --- | --- | --- | --- | --- | --- |
| 8000 | Unspecified types of cancer | Other & unspecified (O&U) | 8144 | Adenocarcinomas | Other & unspecified (O&U) |
| 8001 | Unspecified types of cancer | Other & unspecified (O&U) | 8145 | Adenocarcinomas | Other & unspecified (O&U) |
| 8002 | Unspecified types of cancer | Other & unspecified (O&U) | 8147 | Adenocarcinomas | Other & unspecified (O&U) |
| 8003 | Unspecified types of cancer | Other & unspecified (O&U) | 8154 | Other specific carcinomas | Other & unspecified (O&U) |
| 8004 | Unspecified types of cancer | Other & unspecified (O&U) | 8170 | Other specific carcinomas | Other & unspecified (O&U) |
| 8005 | Unspecified types of cancer | Other & unspecified (O&U) | 8190 | Adenocarcinomas | Other & unspecified (O&U) |
| 8010 | Unspecified carcinomas (NOS) | Large cell carcinoma (LCC) | 8200 | Adenocarcinomas | Other & unspecified (O&U) |
| 8011 | Unspecified carcinomas (NOS) | Large cell carcinoma (LCC) | 8201 | Adenocarcinomas | Other & unspecified (O&U) |
| 8012 | Unspecified carcinomas (NOS) | Large cell carcinoma (LCC) | 8210 | Adenocarcinomas | Other & unspecified (O&U) |
| 8013 | Unspecified carcinomas (NOS) | Other & unspecified (O&U) | 8211 | Adenocarcinomas | Adenocarcinoma (AC) |
| 8014 | Unspecified carcinomas (NOS) | Large cell carcinoma (LCC) | 8230 | Other specific carcinomas | Adenocarcinoma (AC) |
| 8015 | Unspecified carcinomas (NOS) | Large cell carcinoma (LCC) | 8231 | Other specific carcinomas | Adenocarcinoma (AC) |
| 8020 | Unspecified carcinomas (NOS) | Large cell carcinoma (LCC) | 8240 | Other specific carcinomas | Other & unspecified (O&U) |
| 8021 | Unspecified carcinomas (NOS) | Large cell carcinoma (LCC) | 8241 | Other specific carcinomas | Other & unspecified (O&U) |
| 8022 | Unspecified carcinomas (NOS) | Large cell carcinoma (LCC) | 8243 | Other specific carcinomas | Other & unspecified (O&U) |
| 8030 | Other specific carcinomas | Large cell carcinoma (LCC) | 8244 | Other specific carcinomas | Other & unspecified (O&U) |
| 8031 | Other specific carcinomas | Large cell carcinoma (LCC) | 8245 | Other specific carcinomas | Other & unspecified (O&U) |
| 8032 | Other specific carcinomas | Other & unspecified (O&U) | 8246 | Other specific carcinomas | Other & unspecified (O&U) |
| 8033 | Other specific carcinomas | Other & unspecified (O&U) | 8247 | Other specific carcinomas | Other & unspecified (O&U) |
| 8034 | Other specific carcinomas | Other & unspecified (O&U) | 8249 | Other specific carcinomas | Other & unspecified (O&U) |
| 8035 | Other specific carcinomas | Large cell carcinoma (LCC) | 8250 | Other specific carcinomas | Adenocarcinoma (AC) |
| 8040 | Other specific carcinomas | Other & unspecified (O&U) | 8251 | Other specific carcinomas | Adenocarcinoma (AC) |
| 8041 | Other specific carcinomas | Small cell carcinoma (SCLC) | 8252 | Other specific carcinomas | Adenocarcinoma (AC) |
| 8042 | Other specific carcinomas | Small cell carcinoma (SCLC) | 8253 | Other specific carcinomas | Adenocarcinoma (AC) |
| 8043 | Other specific carcinomas | Small cell carcinoma (SCLC) | 8254 | Other specific carcinomas | Adenocarcinoma (AC) |
| 8044 | Other specific carcinomas | Small cell carcinoma (SCLC) | 8255 | Other specific carcinomas | Adenocarcinoma (AC) |
| 8045 | Other specific carcinomas | Small cell carcinoma (SCLC) | 8260 | Adenocarcinomas | Adenocarcinoma (AC) |
| 8046 | Other specific carcinomas | Other & unspecified (O&U) | 8263 | Adenocarcinomas | Other & unspecified (O&U) |
| 8050 | Unspecified carcinomas (NOS) | Squamous cell carcinoma (SCC) | 8290 | Adenocarcinomas | Other & unspecified (O&U) |
| 8051 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8310 | Adenocarcinomas | Large cell carcinoma (LCC) |
| 8052 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8320 | Adenocarcinomas | Other & unspecified (O&U) |
| 8070 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8323 | Adenocarcinomas | Adenocarcinoma (AC) |
| 8071 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8332 | Adenocarcinomas | Other & unspecified (O&U) |
| 8072 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8333 | Adenocarcinomas | Other & unspecified (O&U) |
| 8073 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8340 | Other specific carcinomas | Other & unspecified (O&U) |
| 8074 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8341 | Other specific carcinomas | Other & unspecified (O&U) |
| 8075 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8345 | Other specific carcinomas | Other & unspecified (O&U) |
| 8076 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8350 | Adenocarcinomas | Other & unspecified (O&U) |
| 8078 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8401 | Adenocarcinomas | Other & unspecified (O&U) |
| 8082 | Squamous carcinomas | Other & unspecified (O&U) | 8410 | Adenocarcinomas | Other & unspecified (O&U) |
| 8083 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8430 | Adenocarcinomas | Other & unspecified (O&U) |
| 8084 | Squamous carcinomas | Squamous cell carcinoma (SCC) | 8440 | Adenocarcinomas | Other & unspecified (O&U) |
| 8090 | Basal cell carcinomas | Other & unspecified (O&U) | 8441 | Adenocarcinomas | Other & unspecified (O&U) |
| 8094 | Basal cell carcinomas | Other & unspecified (O&U) | 8460 | Adenocarcinomas | Other & unspecified (O&U) |
| 8095 | Basal cell carcinomas | Other & unspecified (O&U) | 8470 | Adenocarcinomas | Other & unspecified (O&U) |
| 8120 | Squamous carcinomas | Other & unspecified (O&U) | 8471 | Adenocarcinomas | Other & unspecified (O&U) |
| 8123 | Squamous carcinomas | Other & unspecified (O&U) | 8480 | Adenocarcinomas | Adenocarcinoma (AC) |
| 8140 | Adenocarcinomas | Adenocarcinoma (AC) | 8481 | Adenocarcinomas | Adenocarcinoma (AC) |
| 8141 | Adenocarcinomas | Other & unspecified (O&U) | 8490 | Adenocarcinomas | Adenocarcinoma (AC) |
| 8143 | Adenocarcinomas | Other & unspecified (O&U) | 8500 | Adenocarcinomas | Other & unspecified (O&U) |
| Notes: This classification is based on Fritz et al. 2013 [11] in combination with ICD-O-3 SEER Site/Histology Validation List 2015 to determine unusual codes for site Lung and Bronchus. | | | | | |

Table 1: Table S5: Conversion table of histology codes into ICD-O-3 histologically 'different' groups and histological subtypes of lung cancer

| **Histology Code** | **Groups histologically ‘different’** (ICD-O-3 rev 1) | **Histological type of lung cancer** (IARC classification) | **Histology Code** | **Groups histologically ‘different’** (ICD-O-3 rev 1) | **Histological type of lung cancer** (IARC classification) |
| --- | --- | --- | --- | --- | --- |
| 8503 | Adenocarcinomas | Other & unspecified (O&U) | 8901 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8507 | Adenocarcinomas | Other & unspecified (O&U) | 8902 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8525 | Adenocarcinomas | Other & unspecified (O&U) | 8910 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8530 | Adenocarcinomas | Other & unspecified (O&U) | 8912 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8550 | Adenocarcinomas | Adenocarcinoma (AC) | 8920 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8551 | Adenocarcinomas | Adenocarcinoma (AC) | 8921 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8560 | Other specific carcinomas | Other & unspecified (O&U) | 8933 | Other specified types of cancer | Unusual |
| 8562 | Other specific carcinomas | Other & unspecified (O&U) | 8935 | Other specified types of cancer | Other & unspecified (O&U) |
| 8570 | Adenocarcinomas | Adenocarcinoma (AC) | 8940 | Adenocarcinomas | Unusual |
| 8571 | Adenocarcinomas | Adenocarcinoma (AC) | 8941 | Adenocarcinomas | Other & unspecified (O&U) |
| 8572 | Adenocarcinomas | Adenocarcinoma (AC) | 8951 | Other specified types of cancer | Other & unspecified (O&U) |
| 8574 | Adenocarcinomas | Adenocarcinoma (AC) | 8963 | Other specified types of cancer | Unusual |
| 8575 | Adenocarcinomas | Other & unspecified (O&U) | 8972 | Other specified types of cancer | Other & unspecified (O&U) |
| 8576 | Adenocarcinomas | Adenocarcinoma (AC) | 8973 | Other specified types of cancer | Other & unspecified (O&U) |
| 8580 | Other specific carcinomas | Other & unspecified (O&U) | 8980 | Other specified types of cancer | Other & unspecified (O&U) |
| 8581 | Other specific carcinomas | Unusual | 8982 | Other specified types of cancer | Other & unspecified (O&U) |
| 8585 | Other specific carcinomas | Other & unspecified (O&U) | 8990 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8680 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9015 | Other specified types of cancer | Other & unspecified (O&U) |
| 8710 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9040 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8711 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9041 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8720 | Other specified types of cancer | Other & unspecified (O&U) | 9043 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8743 | Other specified types of cancer | Other & unspecified (O&U) | 9064 | Other specified types of cancer | Other & unspecified (O&U) |
| 8770 | Other specified types of cancer | Other & unspecified (O&U) | 9065 | Other specified types of cancer | Other & unspecified (O&U) |
| 8772 | Other specified types of cancer | Other & unspecified (O&U) | 9070 | Other specified types of cancer | Other & unspecified (O&U) |
| 8800 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9071 | Other specified types of cancer | Other & unspecified (O&U) |
| 8801 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9080 | Other specified types of cancer | Other & unspecified (O&U) |
| 8802 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9084 | Other specified types of cancer | Other & unspecified (O&U) |
| 8803 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9085 | Other specified types of cancer | Other & unspecified (O&U) |
| 8804 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9100 | Other specified types of cancer | Other & unspecified (O&U) |
| 8805 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9101 | Other specified types of cancer | Other & unspecified (O&U) |
| 8806 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9120 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8810 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9130 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8811 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9133 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8815 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9150 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8824 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9180 | Sarcomas and soft tissue tumours | Unusual |
| 8830 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9181 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8840 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9182 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8850 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9220 | Sarcomas and soft tissue tumours | Unusual |
| 8851 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9231 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8852 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9250 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8853 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9260 | Other specified types of cancer | Unusual |
| 8854 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9364 | Other specified types of cancer | Other & unspecified (O&U) |
| 8855 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9365 | Other specified types of cancer | Other & unspecified (O&U) |
| 8858 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9370 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8890 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9473 | Other specified types of cancer | Other & unspecified (O&U) |
| 8891 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9500 | Other specified types of cancer | Other & unspecified (O&U) |
| 8894 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9522 | Other specified types of cancer | Other & unspecified (O&U) |
| 8895 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9540 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8896 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9560 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| 8900 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) | 9561 | Sarcomas and soft tissue tumours | Other & unspecified (O&U) |
| Notes: This classification is based on Fritz et al. 2013 [11] in combination with ICD-O-3 SEER Site/Histology Validation List 2015 to determine unusual codes for site Lung and Bronchus. | | | | | |