Supplementary Table 1. Details about the categories across different anatomic systems.

|  |  |  |
| --- | --- | --- |
| **Cancer Systems** | **Cancer types** | **Category** |
| **A** | **B** | **C** |
| **Oral cavity and Pharynx** | **Lip** | **√** | 　 | 　 |
| **Tongue** | 　 | **√** | 　 |
| **Gum and other mouth** | 　 | **√** | 　 |
| **Floor of mouth** | 　 | **√** | 　 |
| **Salivary land** | 　 | **√** | 　 |
| **Tonsil** | 　 | **√** | 　 |
| **Oropharynx** | 　 | **√** | 　 |
| **Nasopharynx** | 　 | **√** | 　 |
| **Hypopharynx** | 　 | **√** | 　 |
| **Digestive system** | **Esophagus** | **√** | 　 | 　 |
| **Stomatch** | **√** | 　 | 　 |
| **Small intstine** | 　 | **√** | 　 |
| **Cecum** | 　 | **√** | 　 |
| **Appendix** | 　 | 　 | **√** |
| **Ascending colon** | 　 | **√** | 　 |
| **Hepatic flexure** | 　 | **√** | 　 |
| **Transverse colon** | 　 | **√** | 　 |
| **Splenic flexure** | 　 | **√** | 　 |
| **Descending colon** | 　 | **√** | 　 |
| **Sigmoid colon** | 　 | **√** | 　 |
| **Large intestine** | **√** | 　 | 　 |
| **Rectosigmoid junction** | 　 | **√** | 　 |
| **Rectum** | 　 | **√** | 　 |
| **Anus, Anal canal and Anorectum** | 　 | **√** | 　 |
| **Liver** | **√** | 　 | 　 |
| **Intrahepatic bile Duct** | **√** | 　 | 　 |
| **Gallbladder** | **√** | 　 | 　 |
| **Other Biliary** | **√** | 　 | 　 |
| **Pancrease** | **√** | 　 | 　 |
| **Retroperitoneum** | 　 | **√** | 　 |
| **Peritoneum, Omentum and Mesentery** | 　 | **√** | 　 |
| **Other Digestive organs** | 　 | 　 | **√** |
| **Respiratory system** | **Nose, Nasal Cavity** | 　 | **√** | 　 |
| **Larynx** | 　 | **√** | 　 |
| **Lung and Bronchus** | **√** | 　 | 　 |
| **Trachea, Mediastium and other respiratory organs** | 　 | **√** | 　 |
| **Bone and soft tissues** | **Soft tissue including heart** | 　 | **√** | 　 |
| **Bone and joint** | 　 | **√** | 　 |
| **Other non-eprthelial skin** | 　 | **√** | 　 |
| **Melanoma of the skin** | 　 | **√** | 　 |
| **Breast** | **Breast** | 　 | **√** | 　 |
| **Female Genital system** | **Vulva** | 　 | **√** | 　 |
| **Vagina** | 　 | **√** | 　 |
| **Cervix Uteri** | 　 | **√** | 　 |
| **Corpus Uteri** | 　 | **√** | 　 |
| **Uterus** | **√** | 　 | 　 |
| **Ovary** | 　 | **√** | 　 |
| **Other Female Genital Organs** | 　 | **√** | 　 |
| **Male Genital system** | **Penis** | 　 | **√** | 　 |
| **Prostate** | 　 | 　 | **√** |
| **Testis** | 　 | 　 | **√** |
| **Other Male Genital organs** | 　 | 　 | **√** |
| **Urinary system** | **Kidney and renal pelvis** | 　 | **√** | 　 |
| **Ureter** | **√** |  | 　 |
| **Urinary Bladder** | **√** |  | 　 |
| **Other urinary Organs** | 　 | **√** | 　 |
| **Eye and Orbit** | **Eye and Orbit** | 　 | **√** | 　 |
| **Endocrine system** | **Thyroid** | 　 | **√** | 　 |
| **Other Endocrine including Thymus** | **√** | 　 | 　 |
| **Lymphoma** | **NHL-Extranodal** | 　 | 　 | **√** |
| **Mesothelioma** | **Mesothelioma** | **√** | 　 | 　 |