## **Genomics Thailand Registry**



## **■** Data Dictionary Codebook

04/17/2020 11:25am

▲ Collapse all instruments

|        |                                   |  | ↑ Collapse all instruments  |
|--------|-----------------------------------|--|---|
|        | # Variable / Field Name           | Field Label Field Note   | Field Attributes (Field Type, Validation, Choices,<br>Calculations, etc.)   |
| Instru | ment: <b>General Registry</b> (ge | eneral_registry)   | ^ Collapse  |
|        | 1 participant_id                  | Participant ID   | text, Required  |
|        | 2 gender                          | Text designations that identify gender. Gender is described as the assemblage of properties that distinguish people on the basis of their societal roles. [Explanatory Comment 1: Identification of gender is based upon self-report and may come from a form, questionnaire, interview, etc.] | radio, Required  0 Female  1 Male  -9 Unknown  -99 Unspecified/Not reported   |
|        | 3 birth_date                      | Birthday (DD-MM-YYYY)  | text (date_dmy)   |
|        | 4 consent_date                    | Date the consent was obtained and participant recruited  | text (date_dmy)   |
|        | 5 gth_project                     | Projects involved in Genomics Thailand   | checkbox  1 gth_project1 Cancer  2 gth_project2 Rare disease  3 gth_project3 Pharmacogenomics  4 gth_project4 NCD  5 gth_project5 Infectious Diseases |
|        | 6 index_case                      | Is this the patient or the relatives?  | yesno 1 Yes 0 No  |
|        | 7 index_relative                  | Relationship to the index case   | radio 1 Uncle/Aunt 2 Grandparents 3 Parents 4 Siblings  |
|        | 8 family_history                  | For cancer and rare disesae, do the patient have a family history?   | radio  0 No  1 Yes  -9 None cancer  -8 Not rare disease  -99 Unkonwn  |
|        | 9 index_hospital                  | Hospital that recruited the patient  | radio  0 Referred from other hospital  1 Hospital in the project  -9 Unknown  |
| 1      | 0 health_policy                   | Health policy used by the patient  | radio  1 Universal Coverage  2 Social Security  3 Government Healthcare  4 Private/Insurance  5 No coverage   |
| 1      | 1 collected_tissues               | Biospecimens obtained from the patient   | checkbox  1 collected_tissues1 Blood 2 collected_tissues2 Surgical tissues 3 collected_tissues3 Buccal swab 4 collected_tissues4 Skin biopsy          |

| <br> |                  |   |     |  |
|------|------------------|---|-----|--|
| 12   | genetic_test_hx  | Has the patient received any genetic test before  | rac | io   |
|      |                  |   | 0   | No   |
|      |                  |   | 1   | Yes but positive result not related to the current disesae |
|      |                  |   | 2   | Yes but got negative result                                |
|      |                  |   | 3   | Yes with positive result for the current condition         |
| 13   | rare_dx          | For rare disease, do you know the diagnosis of your                                       | rad | lio  |
|      |                  | condition?  | 0   | No   |
|      |                  |   | 1   | Yes  |
|      |                  |   | -9  | Not related to the current condition                       |
| 14   | years_rare_dx    | How many years have you been given the diagnosis (rounding months up to the nearest year) | tex | t (integer, Min: 0)  |
| 15   | treatment_status | Treatment status of the patient   | rad | lio  |
|      |                  |   | 0   | Never receive treatment                                    |
|      |                  |   | 1   | Complete treatment   |
|      |                  |   | 2   | Targeted treatment specific to the disease                 |
|      |                  |   | 3   | Paliative care   |
|      |                  |   | -9  | Treatment is not applicable                                |

| 16 | organ_phenotype           | Choose the organ with disease manifestation | che         | ckbox                             |                            |
|----|---------------------------|---|-------------|-----------------------------------|----------------------------|
|    |                           |   | 1           | organ_phenotype1                  | Brain                      |
|    |                           |   | 2           | organ_phenotype2                  | Eyes                       |
|    |                           |   | 3           | organ_phenotype3                  | Head and neck              |
|    |                           |   | 4           | organ_phenotype4                  | Lungs or respiratory track |
|    |                           |   | 5           | organ_phenotype5                  | Esophagus                  |
|    |                           |   | 6           | organ_phenotype6                  | Stomach                    |
|    |                           |   | 7           | organ_phenotype7                  | Small intestine            |
|    |                           |   | 8           | organ_phenotype8                  | Large bowel and anus       |
|    |                           |   | 9           | organ_phenotype9                  | Liver and bile ducts       |
|    |                           |   | 10          |                                   | Pancreas                   |
|    |                           |   | 11          | organ_phenotype11                 | Uterus or Prostate         |
|    |                           |   | <del></del> | organ_phenotype12                 |                            |
|    |                           |   |             | organ_phenotype13                 |                            |
|    |                           |   | 14          | organ_phenotype14                 |                            |
|    |                           |   | 15          | organ_phenotype15                 | Kidney                     |
|    |                           |   | 16          | organ_phenotype16                 | Urinary track              |
|    |                           |   | 17          | organ_phenotype17                 | Breast                     |
|    |                           |   | 18          | organ_phenotype18                 | Heart muscle               |
|    |                           |   | 19          | organ_phenotype19                 | Heart valve                |
|    |                           |   | 20          | organ_phenotype20                 | Cardiac conduction system  |
|    |                           |   | 21          | organ_phenotype21                 | Arterial disease           |
|    |                           |   | 22          | organ_phenotype22                 | Venous system              |
|    |                           |   | 23          | organ_phenotype23                 | Lymphatic vessels          |
|    |                           |   | 24          | organ_phenotype24                 | Lymph node                 |
|    |                           |   | 25          | organ_phenotype25                 | Connective tissue          |
|    |                           |   | 26          | organ_phenotype26                 | Red Blood Cells            |
|    |                           |   | 27          | organ_phenotype27                 | White Blood Cells          |
|    |                           |   | 28          | organ_phenotype28                 | Platelets                  |
|    |                           |   | 29          | organ_phenotype29                 | Bone marrow                |
|    |                           |   | 30          | organ_phenotype30                 | Skeletal muscles           |
|    |                           |   | 31          | organ_phenotype31                 | Bone and joint             |
|    |                           |   | 32          | organ_phenotype32                 | Immune system              |
|    |                           |   | 33          | organ_phenotype33                 | Peripheral nervous system  |
|    |                           |   | 34          | organ_phenotype34                 | Spinal cord                |
|    |                           |   | 35          | organ_phenotype35                 | Vertebrae                  |
|    |                           |   | 36          | organ_phenotype36                 | Ears/Hearing               |
|    |                           |   | 37          | organ_phenotype37                 | Skin                       |
| 17 | general_registry_complete | Section Header: Form Status Complete?       | 0           | pdown<br>Incomplete<br>Unverified |                            |
|    |                           |   | 2           | Complete                          |                            |
|    | Compliment and a street   | ication (germline_testing_indication)       |             |                                   | <b>^</b> Collap            |

| 20 |   | Genomics mailand Registry   NE   | - · r   |
|----|---|--|---|
| 18 | germline_cancer   | Cancer Type  | radio, Required  1 Breast cancer  2 CA Ovary OR Pancreatic Cancer  3 Metastatic Prostate Cancer  4 Adenomatous Polyps > 10 or Harmatoma > 2   |
|    |   |  | <ul> <li>Colon cancer or endometrial cancer</li> <li>Multiple cancers or hereditary cancer syndromes</li> <li>Pediatric cancer (&lt; 18 y-o)</li> <li>Rare cancer</li> </ul>  |
| 19 | mult_cancer_synd Show the field ONLY if: [germline_cancer] = '6'                            | Detail of multiple cancers or hereditary cancer syndrome                           | text  |
| 20 | ped_rare_cancer Show the field ONLY if: [germline_cancer] = '7' or [ger mline_cancer] = '8' | Detail of pediatric cancer or rare cancer  | text  |
| 21 | breast_age Show the field ONLY if: [germline_cancer(1)] = '1'                               | Section Header: Breast Cancer Age with the first breast cancer                     | text (integer)  |
| 22 | male_breast Show the field ONLY if: [germline_cancer(1)] = '1'                              | Male breast cancer   | yesno 1 Yes 0 No  |
| 23 | tnb60 Show the field ONLY if: [breast_age] <= 60 and [male_breast] = '0'                    | The patient has a triple-negative breast cancer                                    | yesno 1 Yes 0 No  |
| 24 | breast50 Show the field ONLY if: [breast_age] <= 50 and [breast_age] > 45                   | Indication for testing in a female patient with breast cancer before the age of 50 | checkbox  1 breast501 Second primary breast cancer  2 breast502 History of breast cancer in first-degree relatives  3 breast503 History of pancreatic cancer in first-or second-degree relatives.                             |
| 25 | breast_germline_etc Show the field ONLY if: [germline_cancer] = '1'                         | Additional criteria for breast cancer germline testing                             | theckbox  1 breast_germline_etc1 At least 2 first-degree relatives with breast cancer, pancreatic cancer, or prostate cancer  2 breast_germline_etc2 At least 1 first-degree relatives with breast cancer before 50-year-old. |
|    |   |  | 3 breast_germline_etc3 History of "SARCOMA"  4 breast_germline_etc4 History of OTHER cancers before 45-year-old   |
|    |   |  | 5 breast_germline_etc5 History of adrenocortical cancer, glioma, or choroid plexus cancer   |
|    |   |  | 6 breast_germline_etc6 At least 1 first/second-degree relatives with cancer before 45-year-old  |

| 50-year-old  2 colon_endom_germline2 History of synchronous/metach colon/endometrial ca  3 colon_endom_germline3 At least 1 first-degree relative with colon/endometrial ca before 50-year-old  4 colon_endom_germline4 Abnormal MMR prote   | 7/20 | 20    |                                | Genomics Thailand Registry   RE                                  | DCa  | ар                         |   |
|--|------|-------|--------------------------------|--|------|----------------------------|---|
| endometrial cancer    Colon_endom_germline_3   History of Syvean old   |      | 26    | colon_endom_germline           | Section Header: Colon Cancer or Endometrial Cancer               | che  | ckbox                      |   |
| Synchronous/metach colon/endometral co |      |       |                                | I = = = = = = = = = = = = = = = = = = =                          | 1    | colon_endom_germline1      | endometrial cancer befo                                 |
| relative with colon/endom_germline4 Abnormal MMR prote MSI-H in cancer tissue displayed and perform Softius Complete?  27 germline_testing_indication_co mplete?  28 icd10 Section Header: ICD-10 International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10)-WHO Version for 2016 integrizing who international Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10)-WHO Version for 2016 integrizing who introduced the protocol.  29 vital_status Section Header: ICD-10 International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10)-WHO Version for 2016 integrizing who introduced the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  Take term to identify the cause of death for a patient.  Text term to identify the cause of death for a patient.  Text term to identify the cause of death for a patient.  Text term to identify the cause of death for a patient.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the protocol.  The survival state of the person registered on the pro |      |       |                                |  | 2    | colon_endom_germline2      | History of synchronous/metachron colon/endometrial cand |
| 27 germline_testing_indication_co   Section Header: Form Status   Complete?  |      |       |                                |  | 3    | colon_endom_germline3      | colon/endometrial cance                                 |
| Instrument: Cancer (cancer)    28  |      |       |                                |  | 4    | colon_endom_germline4      | Abnormal MMR protein<br>MSI-H in cancer tissue          |
| Instrument: Cancer (cancer)    28  |      | 27    | germline_testing_indication_co | Section Header: Form Status                                      | dro  | pdown                      |   |
| Instrument: Cancer (cancer)   2   2   complete   |      |       |                                | Complete?  | 0    | Incomplete                 |   |
| Instrument: Cancer (cancer)  28 icd10   Section Header: ICD-10   International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10)-WHO Version for ;2016 https://icd.who.int/browse10/2016/en#/II  29 vital_status   Section Header: Vital Status   The survival state of the person registered on the protocol.   The survival state of the person registered on the protocol.   The survival state of the person registered on the protocol.   1 Dead  |      |       |                                |  | 1    | Unverified                 |   |
| Section Header: ICD-10   International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10)-WHO Version for ;2016 https://icd.who.int/browse10/2016/en#/II   Section Header: Wital Status   Section Header: Wital Status   Section Header: Wital Status   The survival state of the person registered on the protocol.   Tadio, Required   1 Dead   -9 Unknown   -99 Not Reported   1 Dead   -9 Unknown   -99 Not Reported   1 Dead   -9 Unknown   -99 Not Reported   1 Cancer Related   2 Cardiovascular Disorder, NOS   3 End-stage Renal Disease   4 Infection   5 Not Cancer Related   6 Renal Disorder, NOS   7 Spinal Muscular Atrophy   8 Surgical Complications   9 Toxicity   -9 Not Reported   9 Toxicity   -9 Not Repo |      |       |                                |  | 2    | Complete                   |   |
| International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10)-WHO Version for ;2016 https://icd.who.int/browse10/2016/en#/II  29 vital_status  Section Header: Vital Status  The survival state of the person registered on the protocol.  30 death_date  Death Date (DD-MM-YYYY AD)  text (date_dmy)  radio  cause_of_death  Section Header: Couse of Death Text term to identify the cause of death for a patient.  Factor Related  Cancer Related  Cardiovascular Disorder, NOS  End-stage Renal Disease  Infection  Not Cancer Related  Renal Disorder, NOS  Surgical Complications  Toxicity  Not Reported  | Ins  | trume | nt: <b>Cancer</b> (cancer)     |  |      |                            | ^ Collapse  |
| Health Problems 10th Revision (ICD-10)-WHO Version for ;2016 https://icd.who.int/browse10/2016/en#/ll  29  vital_status  |      | 28    | icd10                          | Section Header: ICD-10   | text | , Required                 |   |
| 29   vital_status   Section Header: Vital Status   The survival state of the person registered on the protocol.   Indicate   Death Date (DD-MM-YYYY AD)   Death Date (DD-MM-YYYY AD)   Text term to identify the cause of death for a patient.   Indicate   Cardiovascular Disorder, NOS   |      |       |                                | International Statistical Classification of Diseases and Related | BIC  | DPORTAL:ICD-10 BIOPORTA    | L:ICD-10  |
| 29   vital_status   Section Header: Vital Status   The survival state of the person registered on the protocol.   The survival state of the person registered on the protocol.   1   Dead   Dead   1   Dead   D |      |       |                                |  |      | <b>'</b>                   |   |
| The survival state of the person registered on the protocol.    O Alive  |      | 29    | vital status                   |  | radi | io, Reguired               |   |
| 30 death_date Death Date (DD-MM-YYYY AD) text (date_dmy)  31 cause_of_death Section Header: Cause of Death  Text term to identify the cause of death for a patient.  1   |      |       | _                              | The survival state of the person registered on the protocol.     |      |                            |   |
| 30 death_date Death Date (DD-MM-YYYY AD)  31 cause_of_death  Section Header: Cause of Death Text term to identify the cause of death for a patient.  1  Cancer Related 2  Cardiovascular Disorder, NOS 3  End-stage Renal Disease 4  Infection 5  Not Cancer Related 6  Renal Disorder, NOS 7  Spinal Muscular Atrophy 8  Surgical Complications 9  Toxicity -9  Not Reported  |      |       |                                |  | 1    | Dead                       |   |
| 30 death_date Death Date (DD-MM-YYYY AD)  Section Header: Cause of Death Text term to identify the cause of death for a patient.  Fadio  1 Cancer Related 2 Cardiovascular Disorder, NOS 3 End-stage Renal Disease 4 Infection 5 Not Cancer Related 6 Renal Disorder, NOS 7 Spinal Muscular Atrophy 8 Surgical Complications 9 Toxicity -9 Not Reported  |      |       |                                |  | -9   | Unknown                    |   |
| Section Header: Cause of Death Text term to identify the cause of death for a patient.    Cancer Related   |      |       |                                |  | -99  | Not Reported               |   |
| Text term to identify the cause of death for a patient.  1   |      | 30    | death_date                     | Death Date (DD-MM-YYYY AD)                                       | text | (date_dmy)                 |   |
| 2 Cardiovascular Disorder, NOS 3 End-stage Renal Disease 4 Infection 5 Not Cancer Related 6 Renal Disorder, NOS 7 Spinal Muscular Atrophy 8 Surgical Complications 9 Toxicity -9 Not Reported  |      | 31    | cause_of_death                 | Section Header: Cause of Death                                   | radi | 0                          |   |
| 3 End-stage Renal Disease 4 Infection 5 Not Cancer Related 6 Renal Disorder, NOS 7 Spinal Muscular Atrophy 8 Surgical Complications 9 Toxicity -9 Not Reported   |      |       |                                | Text term to identify the cause of death for a patient.          | 1    | Cancer Related             |   |
| 4 Infection 5 Not Cancer Related 6 Renal Disorder, NOS 7 Spinal Muscular Atrophy 8 Surgical Complications 9 Toxicity -9 Not Reported   |      |       |                                |  | 2    | Cardiovascular Disorder, N | IOS   |
| 5 Not Cancer Related 6 Renal Disorder, NOS 7 Spinal Muscular Atrophy 8 Surgical Complications 9 Toxicity -9 Not Reported   |      |       |                                |  | 3    | End-stage Renal Disease    |   |
| 6 Renal Disorder, NOS 7 Spinal Muscular Atrophy 8 Surgical Complications 9 Toxicity -9 Not Reported  |      |       |                                |  | 4    | Infection                  |   |
| 7 Spinal Muscular Atrophy 8 Surgical Complications 9 Toxicity -9 Not Reported  |      |       |                                |  | 5    | Not Cancer Related         |   |
| 8 Surgical Complications 9 Toxicity -9 Not Reported  |      |       |                                |  | 6    | Renal Disorder, NOS        |   |
| 9 Toxicity -9 Not Reported   |      |       |                                |  | 7    | Spinal Muscular Atrophy    |   |
| -9 Not Reported  |      |       |                                |  | 8    | Surgical Complications     |   |
|  |      |       |                                |  | 9    | Toxicity                   |   |
| -99 Unknown  |      |       |                                |  | -9   | Not Reported               |   |
|  |      |       |                                |  | -99  | Unknown                    |   |

| /17/20   | 20       |                 | Genomics Thailand Registry   RE                                    | DCap          | ,                        |  |
|----------|----------|-----------------|--|---------------|--------------------------|--|
|          | 32       | ajcc_clinical_t | Extent of the primary cancer based on evidence obtained            | radio         |                          |  |
|          |          |                 | from clinical assessment parameters determined prior to treatment. |               | ТО                       |  |
|          |          |                 |  | 1             | T1                       |  |
|          |          |                 |  | 2             | T1a                      |  |
|          |          |                 |  | 3             | T1a1                     |  |
|          |          |                 |  | 4             | T1a2                     |  |
|          |          |                 |  | 5             | T1b                      |  |
|          |          |                 |  | 6             | T1b1                     |  |
|          |          |                 |  | 7             | T1b2                     |  |
|          |          |                 |  | 8             | T1c                      |  |
|          |          |                 |  | 9             | T1mi                     |  |
|          |          |                 |  | 10            | T2                       |  |
|          |          |                 |  | 11            | T2a                      |  |
|          |          |                 |  | 12            | T2a1                     |  |
|          |          |                 |  | 13            | T2a2                     |  |
|          |          |                 |  | 14            | T2b                      |  |
|          |          |                 |  | 15            | T2c                      |  |
|          |          |                 |  | 16            | T2d                      |  |
|          |          |                 |  | 17            | T3                       |  |
|          |          |                 |  | 18            | T3a                      |  |
|          |          |                 |  | 19            | T3b                      |  |
|          |          |                 |  | 20            | T3c                      |  |
|          |          |                 |  | 21            | T3d                      |  |
|          |          |                 |  | 22            | T4                       |  |
|          |          |                 |  | 23            | T4a                      |  |
|          |          |                 |  | 24            | T4b                      |  |
|          |          |                 |  | 25            | T4c                      |  |
|          |          |                 |  | 26            | T4d                      |  |
|          |          |                 |  | 27            | T4e                      |  |
|          |          |                 |  | 28            | TX                       |  |
|          |          |                 |  | 29            | Та                       |  |
|          |          |                 |  | 30            | Tis                      |  |
|          |          |                 |  | 31            | Tis (DCIS)               |  |
|          |          |                 |  | 32            | Tis (LCIS)               |  |
|          |          |                 |  | 33            | Tis (Paget's)            |  |
|          |          |                 |  | -9            | Unknown                  |  |
|          |          |                 |  | -99           | Not Reported/Less Values |  |
| <u> </u> | <u> </u> |                 |  | l <del></del> |                          |  |

|    | 1  | T                         | T Continues Thailand Region y   The  | <u> </u>                                  |
|----|----|---------------------------|--|---|
|    | 33 | ajcc_clinical_n           | Extent of the regional lymph node involvement for the cancer   | radio                                     |
|    |    |                           | based on evidence obtained from clinical assessment parameters determined prior to treatment.                  | 0 N0                                      |
|    |    |                           | profite determined prior to deditional   | 1 N0 (i+)                                 |
|    |    |                           |  | 2 N0 (i-)                                 |
|    |    |                           |  | 3 N0 (mol+)                               |
|    |    |                           |  | 4 N0 (mol-)                               |
|    |    |                           |  |   |
|    |    |                           |  | 5 N1                                      |
|    |    |                           |  | 6 N1a                                     |
|    |    |                           |  | 7 N1b                                     |
|    |    |                           |  | 8 N1bl                                    |
|    |    |                           |  | 9 N1bII                                   |
|    |    |                           |  | 10 N1bIII                                 |
|    |    |                           |  | 11 N1bIV                                  |
|    |    |                           |  | 12 N1c                                    |
|    |    |                           |  |   |
|    |    |                           |  | 13 N1mi                                   |
|    |    |                           |  | 14 N2                                     |
|    |    |                           |  | 15 N2a                                    |
|    |    |                           |  | 16 N2b                                    |
|    |    |                           |  | 17 N2c                                    |
|    |    |                           |  | 18 N3                                     |
|    |    |                           |  | 19 N3a                                    |
|    |    |                           |  |   |
|    |    |                           |  | 20 N3b                                    |
|    |    |                           |  | 21 N3c                                    |
|    |    |                           |  | 22 N4                                     |
|    |    |                           |  | 23 NX                                     |
|    |    |                           |  | -9 Unknown                                |
|    |    |                           |  | -99 Not Reported                          |
|    | 24 | aise elipiael pe          | Future of the distant materials for the sense based on   |   |
|    | 34 | ajcc_clinical_m           | Extent of the distant metastasis for the cancer based on evidence obtained from clinical assessment parameters | radio 0 M0                                |
|    |    |                           | determined prior to treatment  |   |
|    |    |                           |  | 1 M1                                      |
|    |    |                           |  | 2 M1a                                     |
|    |    |                           |  | 3 M1b                                     |
|    |    |                           |  | 4 M1c                                     |
|    |    |                           |  | 5 MX                                      |
|    |    |                           |  | 6 cM0 (i+)                                |
|    |    |                           |  | -9 Unknown                                |
|    |    |                           |  | -99 Not Reported/Less Values              |
|    |    |                           |  |   |
|    | 35 | last_known_disease_status | The last known state or condition of an individual's neoplasm  | radio, Required                           |
|    |    |                           |  | 0 With tumor                              |
|    |    |                           |  | 1 Distant met recurrence/progression      |
|    |    |                           |  | 2 Loco-regional recurrence/progression    |
|    |    |                           |  | 3 Biochemical evidence of disease without |
|    |    |                           |  | structural correlate                      |
|    |    |                           |  | 4 Tumor free                              |
|    |    |                           |  | -9 Unknown tumor status                   |
|    |    |                           |  | -99 not reported/Not Allowed To Collect   |
| -  | 26 | last known status data    | Date of the last known status: [last known disease status]   |   |
| -  | 36 | last_known_status_date    | Date of the last known status: [last_known_disease_status]   | text (date_dmy)                           |
|    | 37 | progress_evidence         | Evidence supporting progression  | radio                                     |
|    |    |                           |  | 1 X-ray                                   |
|    |    |                           |  | 2 Boon scan                               |
|    |    |                           |  | 3 CT/MRI                                  |
|    |    |                           |  | 4 PET/PET-CT                              |
|    |    |                           |  | 5 Others                                  |
| Ш_ | l  | l                         | I  |   |

| _  | 1      | T                                    | T  |                  |                        |                                |          |
|----|--------|--------------------------------------|--|------------------|------------------------|--------------------------------|----------|
|    | 38     | treatment_plan                       | Section Header: Treatment                                  |                  | kbox                   | T                              |          |
|    |        |                                      | Treatment received by the patients                         | 0                | treatment_plan0        | No Treatment                   |          |
|    |        |                                      |  | -9               | treatment_plan9        | Unkown                         |          |
|    |        |                                      |  | 1                | treatment_plan1        | Resection                      |          |
|    |        |                                      |  | 2                | treatment_plan2        | Paliative Surgery              |          |
|    |        |                                      |  | 3                | treatment_plan3        | Single agent chemotherapy      |          |
|    |        |                                      |  | 4                | treatment_plan4        | Multiple chemoth               | nerapy   |
|    |        |                                      |  | 5                | treatment_plan5        | Bone marrow tra                |          |
|    |        |                                      |  | 6                | treatment_plan6        | Targeted therapy               |          |
|    |        |                                      |  | 7                | treatment_plan7        | Immune checkpo                 |          |
|    |        |                                      |  | 8                | treatment_plan8        | cellular therapy               |          |
|    |        |                                      |  | -                |                        |                                | _        |
|    |        |                                      |  | 9                | treatment_plan9        | external radiation             |          |
|    |        |                                      |  | 10               | treatment_plan10       | internal or radior<br>ablation | nuciiae  |
|    | 39     | best_overall_response                | The best improvement achieved throughout the entire course | radi             |                        |                                | 1        |
|    |        |                                      | of protocol treatment.                                     | 0                | J-Adjuvant Therapy     |                                |          |
|    |        |                                      |  | 1                | CPD-Clinical Progressi | ion                            |          |
|    |        |                                      |  | 2                | CR-Complete Respons    | se                             |          |
|    |        |                                      |  | 3                | CRU-Complete Respo     | nse Unconfirmed                |          |
|    |        |                                      |  | 4                | DU-Disease Unchange    | ed                             |          |
|    |        |                                      |  | 5                | IMR-Immunoresponse     | e                              |          |
|    |        |                                      |  | 6                | IPD-Immunoprogress     | ion                            |          |
|    |        |                                      |  | 7                | MR-Minimal/Marginal    | Response                       |          |
|    |        |                                      |  | 8                | MX-Mixed Response      |                                |          |
|    |        |                                      |  | 9                | Non-CR/Non-PD-Non-     | -CR/Non-PD                     |          |
|    |        |                                      |  | 10               | NPB-No Palliative Ber  |                                |          |
|    |        |                                      |  | 11               | NR-No Response         |                                |          |
|    |        |                                      |  | -                | PA-Palliative Therapy  |                                |          |
|    |        |                                      |  | -                |                        |                                |          |
|    |        |                                      |  | -                | PB-Palliative Benefit  |                                |          |
|    |        |                                      |  | _                | PD-Progressive Diseas  |                                |          |
|    |        |                                      |  |                  | PPD-Pseudoprogressi    | on                             |          |
|    |        |                                      |  | -                | PR-Partial Response    |                                |          |
|    |        |                                      |  | -                | PSR-Pseudoresponse     |                                |          |
|    |        |                                      |  | 18               | RD-Responsive Diseas   | se                             |          |
|    |        |                                      |  | 19               | RP-Response            |                                |          |
|    |        |                                      |  | 20               | RPD-Radiographic Pro   | gressive Disease               |          |
|    |        |                                      |  | 21               | sCR-Stringent Comple   | ete Response                   |          |
|    |        |                                      |  | 22               | SD-Stable Disease      |                                |          |
|    |        |                                      |  | 23               | SPD-Surgical Progress  | sion                           |          |
|    |        |                                      |  | 24               | TE-Too Early           |                                |          |
|    |        |                                      |  | 25               | VGPR-Very Good Parti   | ial Response                   |          |
|    | 40     | treatment_detail                     | Regimen used including dose and cycles                     | note             | 25                     |                                |          |
|    | 41     | radiation_detail                     | Detail of radiation therapy received by the patients       | note             | 25                     |                                |          |
|    | 42     | cancer_complete                      | Section Header: Form Status                                | drop             | odown                  |                                |          |
|    |        |                                      | Complete?  | 0                | Incomplete             |                                |          |
|    |        |                                      |  | 1                | Unverified             |                                |          |
|    |        |                                      |  | 2                | Complete               |                                |          |
| In | strume | ent: <b>Case Info - GDC</b> (case_ir | nfo_gdc)   |                  |                        |                                | Collapse |
|    | 43     | consent_type                         | The type of obtained consent from the subject for          | radi             | 0                      |                                |          |
|    |        |                                      | participation in the study                                 |                  | Consent by Death       |                                |          |
|    |        |                                      |  | <del>     </del> | Consent Exemption      |                                |          |
|    |        |                                      |  | l <del></del>    | Consent Waiver         |                                |          |
|    |        |                                      |  |                  | Informed Consent       |                                |          |
|    |        |                                      | 1  | لنا              |                        |                                |          |

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|-------|----|-------------------------------------|--|-------|---|--|
|       | 44 | days_to_consent                     | Number of days between the date used for index and the date the subject consent was obtained for participation in the study. | [con  | ulation: datediff([index_date],<br>isent_date],"d","dmy","true")<br>d Annotation: @HIDDEN |  |
|       | 45 | days_to_lost_to_followup            | The number of days between the date used for index and to the date the patient was lost to follow-up.                        | [lfu_ | ulation: datediff([index_date],<br>_date],"d","dmy","true")<br>d Annotation: @HIDDEN      |  |
|       | 46 | index_date                          | Indexed Date   | text  | (date_dmy)  |  |
|       | 47 | lost_to_followup                    | The patient was unable to be contacted or seen for follow-up   | radi  | 0   |  |
|       |    |                                     | information.   | 1     | Yes   |  |
|       |    |                                     |  | 0     | No  |  |
|       |    |                                     |  | -9    | Unknown   |  |
|       | 48 | lfu_date                            | Date Last Follow Up  | text  | (date_dmy)  |  |
|       | 49 | disease_type                        | The type of malignant disease (cellular morphology), as  | radi  | 0   |  |
|       |    | -2.                                 | categorized by the World Health Organization's (WHO)   | 1     | Acinar Cell Neoplasms   |  |
|       |    |                                     | International Classification of Diseases for Oncology (ICD-O).   | 2     | Adenomas and Adenocarcinomas  |  |
|       |    |                                     |  | 3     | Adnexal and Skin Appendage Neoplasms  |  |
|       |    |                                     |  | 4     | Basal Cell Neoplasms  |  |
|       |    |                                     |  | 5     | Blood Vessel Tumors   |  |
|       |    |                                     |  | 6     | Chronic Myeloproliferative Disorders  |  |
|       |    |                                     |  | 7     | Complex Epithelial Neoplasms  |  |
|       |    |                                     |  | 8     | Complex Mixed and Stromal Neoplasms   |  |
|       |    |                                     |  | 9     | Cystic, Mucinous and Serous Neoplasms   |  |
|       |    |                                     |  | 10    | Ductal and Lobular Neoplasms  |  |
|       |    |                                     |  | 11    |   |  |
|       |    |                                     |  | 12    | Fibroepithelial Neoplasms   |  |
|       |    |                                     |  | 13    | Fibromatous Neoplasms   |  |
|       |    |                                     |  | 14    | Germ Cell Neoplasms   |  |
|       |    |                                     |  | 15    | Giant Cell Tumors   |  |
|       |    |                                     |  | 16    | Gliomas   |  |
|       |    |                                     |  | 17    | Granular Cell Tumors and Alveolar Soft Part<br>Sarcomas                                   |  |
|       |    |                                     |  | 18    | Hodgkin Lymphoma  |  |
|       |    |                                     |  | 19    | Immunoproliferative Diseases  |  |
|       |    |                                     |  | 20    | Leukemias, NOS  |  |
|       |    |                                     |  | 21    | Lipomatous Neoplasms  |  |
|       |    |                                     |  | 22    | Lymphatic Vessel Tumors   |  |
|       |    |                                     |  | 23    | Lymphoid Leukemias  |  |
|       |    |                                     |  | 24    | Malignant Lymphomas, NOS or Diffuse   |  |
|       |    |                                     |  | 25    | Mast Cell Tumors  |  |
|       |    |                                     |  | 26    | Mature B-Cell Lymphomas   |  |
|       |    |                                     |  | 27    | Mature T- and NK-Cell Lymphomas   |  |
|       |    |                                     |  | 28    | Meningiomas   |  |
|       |    |                                     |  | 29    | Mesonephromas   |  |
|       |    |                                     |  | 30    | Mesothelial Neoplasms   |  |
|       |    |                                     |  | 31    | Miscellaneous Bone Tumors   |  |
|       |    |                                     |  | 32    | Miscellaneous Tumors  |  |
|       |    |                                     |  | 33    | Mucoepidermoid Neoplasms  |  |
|       |    |                                     |  | 34    | Myelodysplastic Syndromes   |  |
|       |    |                                     |  | 35    | Myeloid Leukemias   |  |
|       |    |                                     |  | 36    | Myomatous Neoplasms   |  |
|       |    |                                     |  | 37    | Myxomatous Neoplasms  |  |
|       |    |                                     |  | 38    | Neoplasms, NOS  |  |
|       |    |                                     |  | 39    | Neoplasms of Histiocytes and Accessory<br>Lymphoid Cells                                  |  |
|       |    |                                     |  | 40    | Nerve Sheath Tumors   |  |
|       |    |                                     |  | 41    | Neuroepitheliomatous Neoplasms  |  |
| I     | l  |                                     | ı  |       |   |  |

| 1772 |    |              | Ochomics mailand registry [ re  |          |  |
|------|----|--------------|---|----------|--|
|      |    |              |   | 42       | Nevi and Melanomas   |
|      |    |              |   | 43       | Odontogenic Tumors   |
|      |    |              |   | 44       | Osseous and Chondromatous Neoplasms  |
|      |    |              |   | 45       | Other Hematologic Disorders  |
|      |    |              |   | 46       | Other Leukemias  |
|      |    |              |   | 47       | Paragangliomas and Glomus Tumors   |
|      |    |              |   | 48       | Plasma Cell Tumors   |
|      |    |              |   | $\vdash$ | Precursor Cell Lymphoblastic Lymphoma  |
|      |    |              |   | $\vdash$ | Soft Tissue Tumors and Sarcomas, NOS   |
|      |    |              |   | -        | Specialized Gonadal Neoplasms  |
|      |    |              |   | 52       | Squamous Cell Neoplasms  |
|      |    |              |   | $\vdash$ | Synovial-like Neoplasms  |
|      |    |              |   | $\vdash$ |  |
|      |    |              |   | $\vdash$ | Thymic Epithelial Neoplasms  |
|      |    |              |   | $\vdash$ | Transitional Cell Papillomas and Carcinomas                                    |
|      |    |              |   | $\vdash$ | Trophoblastic neoplasms  |
|      |    |              |   | 57       | Unknown Not Reported or Not Applicable   |
|      | 50 | primary_site | The primary site of disease, as categorized by the World<br>Health Organization's (WHO) International Classification of | radio    |  |
|      |    |              | Diseases for Oncology (ICD-O). This categorization groups   | 1        | Accessory sinuses  |
|      |    |              | cases into general categories. Reference  | 2        | Adrenal gland  |
|      |    |              | tissue_or_organ_of_origin on the diagnosis node for more specific primary sites of disease.                             | 3        | Anus and anal canal  |
|      |    |              |   | 4        | Base of tongue   |
|      |    |              |   | 5        | Bladder  |
|      |    |              |   | 6        | Bones, joints and articular cartilage of limbs                                 |
|      |    |              |   | 7        | Bones, joints and articular cartilage of other and unspecified sites           |
|      |    |              |   | 8        | Brain  |
|      |    |              |   | 9        | Breast   |
|      |    |              |   | 10       | Bronchus and lung  |
|      |    |              |   | 11       | Cervix uteri   |
|      |    |              |   | 12       | Colon  |
|      |    |              |   | 13       | Connective, subcutaneous and other soft tissues                                |
|      |    |              |   | 14       | Corpus uteri   |
|      |    |              |   | 15       | Esophagus  |
|      |    |              |   | 16       | Eye and adnexa   |
|      |    |              |   | 17       | Floor of mouth   |
|      |    |              |   | 18       | Gallbladder  |
|      |    |              |   | 19       | Gum  |
|      |    |              |   | 20       | Heart, mediastinum, and pleura   |
|      |    |              |   | 21       | Hematopoietic and reticuloendothelial systems                                  |
|      |    |              |   | 22       | Hypopharynx  |
|      |    |              |   | 23       | Kidney   |
|      |    |              |   | 24       | Larynx   |
|      |    |              |   | 25       | Lip  |
|      |    |              |   |          | ·  |
|      |    |              |   | 26       | Liver and intrahepatic bile ducts  |
|      |    |              |   | 27       | Lymph nodes  |
|      |    |              |   | 28       | Meninges   |
|      |    |              |   | 29       | Nasal cavity and middle ear  |
|      |    |              |   | 30       | Nasopharynx  |
|      |    |              |   | 31       | Oropharynx   |
|      |    |              |   | 32       | Other and ill-defined digestive organs   |
|      |    |              |   | 33       | Other and ill-defined sites  |
|      |    |              |   | 34       | Other and ill-defined sites in lip, oral cavity and pharynx                    |
|      |    |              |   | 35       | Other and ill-defined sites within respiratory system and intrathoracic organs |
|      |    |              |   | 36       | Other and unspecified female genital organs                                    |
| 1    | 1  |              |   |          | 40/  |

|    | •             |   |                        |   |
|----|---------------|---|------------------------|---|
|    |               |   | 37                     | Other and unspecified major salivary glands   |
|    |               |   | 38                     | Other and unspecified male genital organs   |
|    |               |   | 39                     | Other and unspecified parts of biliary tract  |
|    |               |   | 40                     | Other and unspecified parts of mouth  |
|    |               |   | 41                     | Other and unspecified parts of tongue   |
|    |               |   | 42                     | Other and unspecified urinary organs  |
|    |               |   | 43                     | Other endocrine glands and related structures                                       |
|    |               |   | 44                     | Ovary   |
|    |               |   | 45                     | Palate  |
|    |               |   | 46                     | Pancreas  |
|    |               |   | 47                     | Parotid gland   |
|    |               |   | 48                     | Penis   |
|    |               |   | -                      |   |
|    |               |   | 49                     | Peripheral nerves and autonomic nervous system                                      |
|    |               |   | 50                     | Placenta  |
|    |               |   | 51                     | Prostate gland  |
|    |               |   | 52                     | Pyriform sinus  |
|    |               |   | 53                     | Rectosigmoid junction   |
|    |               |   | 54                     | Rectum  |
|    |               |   | 55                     | Renal pelvis  |
|    |               |   | 56                     | Retroperitoneum and peritoneum  |
|    |               |   | 57                     | Skin  |
|    |               |   | 58                     | Small intestine   |
|    |               |   | 59                     | Spinal cord, cranial nerves, and other parts of                                     |
|    |               |   | 60                     | central nervous system Stomach  |
|    |               |   | 61                     | Testis  |
|    |               |   | 62                     | Thymus  |
|    |               |   | 63                     | Thyroid gland   |
|    |               |   | 64                     | Tonsil  |
|    |               |   | 65                     | Trachea   |
|    |               |   | 66                     | Ureter  |
|    |               |   | 67                     | Uterus, NOS   |
|    |               |   | 68                     | Vagina  |
|    |               |   | 69                     | Vulva   |
|    |               |   |                        |   |
|    |               |   | -99                    | Unknown or Not Reported   |
| 51 | ethnicity     | Section Header: Demographics  |                        | o, Required<br>I  |
|    |               | An individual's self-described social and cultural grouping, specifically whether an individual describes themselves as   | 1                      | Hispanic or Latino  |
|    |               | Hispanic or Latino. The provided values are based on the  | 0                      | Not Hispanic or Latino  |
|    |               | categories defined by the U.S. Office of Management and<br>Business and used by the U.S. Census Bureau.   | -9                     | Unknown   |
|    |               | and and and and an analysis of the state of | -99                    | Not reported/Not allowed to collect   |
| 52 | race          | An arbitrary classification of a taxonomic group that is a  | radio                  | , Required  |
|    |               | division of a species. It usually arises as a consequence of geographical isolation within a species and is characterized   | 0                      | Asian   |
|    |               | by shared heredity, physical attributes and behavior, and in  | 1                      | White   |
|    |               | the case of humans, by common history, nationality, or  | 2                      | American Indian or Alaska native  |
|    |               | geographic distribution. The provided values are based on the categories defined by the U.S. Office of Management and   | 3                      | Black or African American   |
|    |               | Business and used by the U.S. Census Bureau.  | 4                      | Native Hawaiian or Other Pacific Islanders  |
|    |               |   | 5                      | Other   |
|    |               |   | -9                     | Unknown/not reported  |
|    |               |   | -99                    |   |
| 53 | days_to_birth | Number of days between the date used for index and the date from a person's date of birth represented as a calculated negative number of days.  | calc<br>Calcu<br>[inde | ulation: datediff([birth_date],<br>x_date],"d","dmy","true")<br>Annotation: @HIDDEN |
| 54 | year_of_birth | A numeric value representing the calendar year in which an individual was born. (Christian Era: 1900 - 2100)  Christian Era = Buddhist Era - 543  | text (                 | integer, Min: 1900, Max: 2100)  |

|      | 55     | premature_at_birth            | The yes/no/unknown indicator used to describe whether the  | radio   |
|------|--------|-------------------------------|--|---|
|      |        |                               | patient was premature (less than 37 weeks gestation) at birth.   | 1 Yes   |
|      |        |                               |  | 0 No  |
|      |        |                               |  | -9 Unknown  |
|      |        |                               |  | -99 Not Reported  |
|      | 56     | weeks gostation at high       | Numeric value used to describe the number of weeks starting  | tout (integer Min) O Mays 45)   |
|      | 56     | weeks_gestation_at_birth      | Numeric value used to describe the number of weeks starting from the approximate date of the biological mother's last  | text (integer, Min: 0, Max: 45)   |
|      |        |                               | menstrual period and ending with the birth of the patient.   |   |
|      |        |                               | Integer only (0-45)  |   |
|      | 57     | case_info_gdc_complete        | Section Header: Form Status  | dropdown  |
|      |        |                               | Complete?  | 0 Incomplete  |
|      |        |                               |  | 1 Unverified  |
|      |        |                               |  | 2 Complete  |
| Inc  | truma  | nt: Follow Up Info - GDC (f   | iollow up info gdc)  | ^ Collapse  |
| 1113 | tiuine | I TONOW OP IIIIO - GDC (I     | onow_up_nno_gue/   | сопорэс   |
|      | 58     | cause_of_death_source         | The source used to determine the patient's cause of death.   | radio   |
|      |        |                               |  | 1 Autopsy   |
|      |        |                               |  | 2 Death Certificate   |
|      |        |                               |  | 3 Medical Record  |
|      |        |                               |  | 4 Social Security Death Index   |
|      |        |                               |  | -9 Unknown  |
|      |        |                               |  | -99 Not Reported  |
|      |        | december de d                 | Number of dear house of the state of the sta |   |
|      | 59     | days_to_death                 | Number of days between the date used for index and the date from a person's date of death represented as a   | calc Calculation: datediff([index_date],  |
|      |        |                               | calculated number of days.   | [death_date],"d","dmy",false)   |
|      |        |                               |  | Field Annotation: @HIDDEN   |
|      | 60     | year_of_death                 | Numeric value to represent the year of the death of an   | text (integer, Min: 1900, Max: 2100)  |
|      |        |                               | individual.  |   |
|      | 61     | days_to_last_follow_up        | Section Header: Last Follow Up   | calc, Required  |
|      |        |                               | Time interval from the date of last follow up to the date of   | Calculation: datediff([pathdx_date],[lfu_date],"d","dmy") Field Annotation: @HIDDEN |
|      |        |                               | initial pathologic diagnosis, represented as a calculated number of days.  | Theid / Willocation: GTIBBEN  |
|      | 62     | days_to_last_known_disease_st | Time interval from the date of last follow up to the date of   | calc, Required  |
|      | -      | atus                          | initial pathologic diagnosis, represented as a calculated  | Calculation: datediff([pathdx_date],  |
|      |        |                               | number of days.  | [last_known_status_date],"d","dmy")   |
|      |        |                               |  | Field Annotation: @HIDDEN   |
|      | 63     | progression_or_recurrence     | Section Header: Response   | radio, Required   |
|      |        |                               | Did the patient has had a new tumor event after initial treatment?   | 1 Yes   |
|      |        |                               |  | 0 No  |
|      |        |                               |  | -9 unknown  |
|      |        |                               |  | -99 not reported/Not Allowed To Collect   |
|      | 64     | recurrence_date               | Date of the first recurrence or progression  | text (date_dmy)   |
|      | 65     | days_to_recurrence            | Number of days between the date used for index and the   | calc, Required  |
|      | 0.5    | adys_to_recurrence            | date the patient's disease recurred  | Calculation: datediff([index_date],   |
|      |        |                               |  | [recurrence_date],"d","dmy",false)  |
|      |        |                               |  | Field Annotation: @HIDDEN   |
|      | 66     | best_response_date            | The date that the best response was recorded (DD-MM-YYYY)  | text (date_dmy)   |
|      | 67     | days_to_best_overall_response | Number of days between the date used for index and the   | calc  |
|      |        |                               | date of the patient was thought to have the best overall response to their disease.  | Calculation: datediff([pathdx_date],<br>[best_response_date],"d","dmy")             |
|      |        |                               |  | Field Annotation: @HIDDEN   |
|      | 68     | follow_up_info_gdc_complete   | Section Header: Form Status  | dropdown  |
|      |        |                               | Complete?  | 0 Incomplete  |
|      |        |                               |  | 1 Unverified  |
|      |        |                               |  | 2 Complete  |
|      |        |                               |  | 2 complete  |
| Ins  | trume  | nt: Diagnosis Info - GDC (d   | liagnosis_info_gdc)  | <b>∧</b> Collapse   |
|      | 69     | pathdx_date                   | Section Header: Detail of The Tumor  | text (date_dmy)   |
|      | 33     |                               | Date of Initial Pathological Diagnosis   |   |
|      | 70     | primary_diagnosis             | Text term used to describe the patient's histologic diagnosis,   | text, Required  |
|      |        | ,                             | as described by the World Health Organization's (WHO)  | ,   |
|      |        |                               | International Classification of Diseases for Oncology (ICD-O).   |   |
| _    | _      |                               |  |   |

| 7/20 | 20 |                             | Genomics mailand Registry   RE   | ics Thailand Registry   REDCap  |  |  |  |
|------|----|-----------------------------|--|---|--|--|--|
|      | 71 | site_of_resection_or_biopsy | The anatomic site of origin, of the patient's malignant disease, as described by the World Health Organization's (WHO) International Classification of Diseases for Oncology (ICD-O)   | text, Required  |  |  |  |
|      | 72 | days_to_diagnosis           | Number of days between the date used for index and the date the patient was diagnosed with the malignant disease.  | calc Calculation: datediff([index_date], [pathdx_date],"d","dmy","true") Field Annotation: @HIDDEN    |  |  |  |
|      | 73 | age_at_diagnosis            | Age at the time of diagnosis expressed in number of days since birth. integer, null  | calc, Required Calculation: datediff([birth_date], [pathdx_date],"y","dmy")                           |  |  |  |
|      | 74 | age_at_index                | The patient's age (in years) on the reference or anchor date date used during date obfuscation.  | calc Calculation: datediff([birth_date],[index_date],"y","dmy")                                       |  |  |  |
|      | 75 | age_is_obfuscated           | The age of the patient has been modified for compliance reasons. The actual age differs from what is reported. Other date intervals for this patient may also be modified.   | truefalse  1 True  0 False  |  |  |  |
|      | 76 | classification_of_tumor     | The kind of disease present in the tumor specimen as related to a specific timepoint.  | radio  1 primary 2 metastasis 3 recurrence 4 other -9 Unknown -99 not reported/Not Allowed To Collect |  |  |  |
|      | 77 | morphology                  | Section Header: ICD-O 3  The third edition of the International Classification of Diseases for Oncology, published in 2000 used principally in tumor and cancer registries for coding the site histology (morphology) of neoplasms. The study of the structure of the cells and their arrangement to constitute tissues and, finally, the association among these to form organs. In pathology, the microscopic process of identifying normal and abnormal morphologic characteristics in tissues, by employing various cytochemical and immunocytochemical stains. A system of numbered categories for the representation of data | text, Required BIOPORTAL:ICD-O-3-M BIOPORTAL:ICD-O-3-M  |  |  |  |
|      | 78 | toography                   | The third edition of the International Classification of Diseases for Oncology, published in 2000 used principally in tumor and cancer registries for coding the site (topography). The study of the association among these to form organs. A system of numbered categories for the representation of data  | text, Required BIOPORTAL:ICD-O-3-T BIOPORTAL:ICD-O-3-T  |  |  |  |
|      | 79 | tissue_or_organ_of_origin   | The anatomic site of origin, of the patient's malignant disease, as described by the World Health Organization's (WHO) International Classification of Diseases for Oncology (ICD-O)   | text, Required  |  |  |  |
|      | 80 | tumor_grade                 | Section Header: AJCC Tumor Grading  Numeric value to express the degree of abnormality of cancer cells, a measure of differentiation and aggressiveness  | radio, Required  1  |  |  |  |

| 17/20 | 20 |                     | Genomics Thailand Registry   RE  | DCap     | ,            |             |
|-------|----|---------------------|--|----------|--------------|-------------|
|       | 81 | ajcc_clinical_stage | Stage group determined from clinical information on the  | radio    |              |             |
|       |    |                     | tumor (T), regional node (N) and metastases (M) and by grouping cases with similar prognosis for cancer.         | 0        | Stage 0      |             |
|       |    |                     |  | 1        | Stage 0a     |             |
|       |    |                     |  | 2        | Stage 0is    |             |
|       |    |                     |  | 3        | Stage I      |             |
|       |    |                     |  | 4        | Stage IA     |             |
|       |    |                     |  | 5        | Stage IA1    |             |
|       |    |                     |  | 6        | Stage IA2    |             |
|       |    |                     |  | 7        | Stage IB     |             |
|       |    |                     |  | 8        | Stage IB1    |             |
|       |    |                     |  | 9        | Stage IB2    |             |
|       |    |                     |  | 10       | Stage IC     |             |
|       |    |                     |  | 11       | Stage II     |             |
|       |    |                     |  | 12       | Stage IIA    |             |
|       |    |                     |  | 13       | Stage IIA1   |             |
|       |    |                     |  | 14       | Stage IIA2   |             |
|       |    |                     |  | 15       | Stage IIB    |             |
|       |    |                     |  | 16       | Stage IIC    |             |
|       |    |                     |  | 17       | Stage IIC1   |             |
|       |    |                     |  | 18       | Stage III    |             |
|       |    |                     |  | 19       | Stage IIIA   |             |
|       |    |                     |  |          | Stage IIIB   |             |
|       |    |                     |  | -        | Stage IIIC   |             |
|       |    |                     |  | -        | Stage IIIC1  |             |
|       |    |                     |  | -        | Stage IIIC2  |             |
|       |    |                     |  | -        | Stage IS     |             |
|       |    |                     |  | 25       | Stage IV     |             |
|       |    |                     |  | -        | Stage IVA    |             |
|       |    |                     |  | $\vdash$ | Stage IVB    |             |
|       |    |                     |  | 28       | Stage IVC    |             |
|       |    |                     |  | -        | Stage Tis    |             |
|       |    |                     |  |          | Stage X      |             |
|       |    |                     |  | -        | Unknown      |             |
|       |    |                     |  | -99      | Not Reported |             |
|       | 82 | ajcc_pathologic_m   |  | radio    |              |             |
|       |    |                     | spread or metastases (M) to locations via vascular channels or lymphatics beyond the regional lymph nodes, using | -        | M0           |             |
|       |    |                     | criteria established by the American Joint Committee on  | 1        | M1           |             |
|       |    |                     | Cancer (AJCC).   | $\vdash$ | M1a          |             |
|       |    |                     |  | 3        | M1b          |             |
|       |    |                     |  |          | M1c          |             |
|       |    |                     |  | -        | M2           |             |
|       |    |                     |  | _        | MX           |             |
|       |    |                     |  | 7        | cM0 (i+)     |             |
|       |    |                     |  | -9       | Unknown      |             |
|       |    |                     |  | -99      | Not Reported |             |
|       |    | <del></del>         | <del></del>  |          |              | <del></del> |

| 1,20 | 7/2020 |                   | Genomics mailand Registry   RE  | Doap  | •            |  |
|------|--------|-------------------|---|-------|--------------|--|
|      | 83     | ajcc_pathologic_n | The codes that represent the stage of cancer based on the nodes present (N stage) according to criteria based on multiple editions of the AJCC's Cancer Staging Manual. | radio |              |  |
|      |        |                   |   | 0     | N0           |  |
|      |        |                   |   | 1     | N0 (i+)      |  |
|      |        |                   |   | 2     | N0 (i-)      |  |
|      |        |                   |   | 3     | N0 (mol+)    |  |
|      |        |                   |   | 4     | N0 (mol-)    |  |
|      |        |                   |   | 5     | N1           |  |
|      |        |                   |   | 6     | N1a          |  |
|      |        |                   |   | 7     | N1b          |  |
|      |        |                   |   | 8     | N1bl         |  |
|      |        |                   |   | 9     | N1bII        |  |
|      |        |                   |   | 10    | N1bIII       |  |
|      |        |                   |   | 11    | N1bIV        |  |
|      |        |                   |   | 12    | N1c          |  |
|      |        |                   |   | 13    | N1mi         |  |
|      |        |                   |   | 14    | N2           |  |
|      |        |                   |   | 15    | N2a          |  |
|      |        |                   |   | 16    | N2b          |  |
|      |        |                   |   | 17    | N2c          |  |
|      |        |                   |   | 18    | N3           |  |
|      |        |                   |   | 19    | N3a          |  |
|      |        |                   |   | 20    | N3b          |  |
|      |        |                   |   | 21    | N3c          |  |
|      |        |                   |   | 22    | N4           |  |
|      |        |                   |   | 23    | NX           |  |
|      |        |                   |   | -9    | Unknown      |  |
|      |        |                   |   | -99   | Not Reported |  |
|      |        |                   |   |       |              |  |

| 17720 | 2020 Genomics Thaliand Registry   RE |                       | DCap   | ,     |              |  |
|-------|--------------------------------------|-----------------------|--|-------|--------------|--|
|       | 84                                   | ajcc_pathologic_stage | The extent of a cancer, especially whether the disease has                               | radio |              |  |
|       |                                      |                       | spread from the original site to other parts of the body based on AJCC staging criteria. | 0     | Stage 0      |  |
|       |                                      |                       | on right staging entend.   | 1     | Stage 0a     |  |
|       |                                      |                       |  | 2     | Stage 0is    |  |
|       |                                      |                       |  | 3     | Stage I      |  |
|       |                                      |                       |  | 4     | Stage IA     |  |
|       |                                      |                       |  | 5     | Stage IA1    |  |
|       |                                      |                       |  | 6     | Stage IA2    |  |
|       |                                      |                       |  | 7     | Stage IB     |  |
|       |                                      |                       |  | 8     | Stage IB1    |  |
|       |                                      |                       |  | 9     | Stage IB2    |  |
|       |                                      |                       |  | 10    | Stage IC     |  |
|       |                                      |                       |  | 11    | Stage II     |  |
|       |                                      |                       |  | 12    | Stage IS     |  |
|       |                                      |                       |  | 13    | Stage IIA    |  |
|       |                                      |                       |  | 14    | Stage IIA1   |  |
|       |                                      |                       |  | 15    | Stage IIA2   |  |
|       |                                      |                       |  | 16    | Stage IIB    |  |
|       |                                      |                       |  | 17    | Stage IIC    |  |
|       |                                      |                       |  | 18    | Stage III    |  |
|       |                                      |                       |  | 19    | Stage IIIA   |  |
|       |                                      |                       |  | 20    | Stage IIIB   |  |
|       |                                      |                       |  | 21    | Stage IIIC   |  |
|       |                                      |                       |  | 22    | Stage IIIC1  |  |
|       |                                      |                       |  | 23    | Stage IIIC2  |  |
|       |                                      |                       |  | 24    | Stage IIID   |  |
|       |                                      |                       |  | 25    | Stage IV     |  |
|       |                                      |                       |  | 26    | Stage IVA    |  |
|       |                                      |                       |  | 27    | Stage IVB    |  |
|       |                                      |                       |  | 28    | Stage IVC    |  |
|       |                                      |                       |  | 29    | Stage Tis    |  |
|       |                                      |                       |  | 30    | Stage X      |  |
|       |                                      |                       |  | -9    | Unknown      |  |
|       |                                      |                       |  | -99   | Not Reported |  |
| L     |                                      | ı                     | ı  |       |              |  |

|   |    |                             | - Conomics mailand registry   Ne  |               |               |  |
|---|----|-----------------------------|---|---------------|---------------|--|
|   | 85 | ajcc_pathologic_t           | Code of pathological T (primary tumor) to define the size or  | radio         |               |  |
|   |    |                             | contiguous extension of the primary tumor (T), using staging criteria from the American Joint Committee on Cancer (AJCC). |               | ТО            |  |
|   |    |                             | enterial normalie / wherearijoint committee on carreer (vijee).   | 1 -           | T1            |  |
|   |    |                             |   | 2             | T1a           |  |
|   |    |                             |   | 3             | T1a1          |  |
|   |    |                             |   | 4             | T1a2          |  |
|   |    |                             |   | 5             | T1b           |  |
|   |    |                             |   | 6             | T1b1          |  |
|   |    |                             |   | 7 -           | T1b2          |  |
|   |    |                             |   | 8 -           | T1c           |  |
|   |    |                             |   | 9 -           | T1mi          |  |
|   |    |                             |   | 10            | T2            |  |
|   |    |                             |   | l             | T2a           |  |
|   |    |                             |   | I <del></del> | T2a1          |  |
|   |    |                             |   | l <del></del> | T2a2          |  |
|   |    |                             |   | l             | T2b           |  |
|   |    |                             |   | l             | T2c           |  |
|   |    |                             |   | l <del></del> | T2d           |  |
|   |    |                             |   | l             |               |  |
|   |    |                             |   | l             | T3            |  |
|   |    |                             |   | l <del></del> | T3a           |  |
|   |    |                             |   | I <del></del> | T3b           |  |
|   |    |                             |   | I <del></del> | T3c           |  |
|   |    |                             |   | l <del></del> | T3d           |  |
|   |    |                             |   | l <del></del> | T4            |  |
|   |    |                             |   | l             | T4a           |  |
|   |    |                             |   | l             | T4b           |  |
|   |    |                             |   | I <del></del> | T4c           |  |
|   |    |                             |   | 26            | T4d           |  |
|   |    |                             |   | 27            | T4e           |  |
|   |    |                             |   | 28            | TX            |  |
|   |    |                             |   | 29            | Та            |  |
|   |    |                             |   | 30            | Tis           |  |
|   |    |                             |   | 31            | Tis (DCIS)    |  |
|   |    |                             |   | 32            | Tis (LCIS)    |  |
|   |    |                             |   | 33            | Tis (Paget's) |  |
|   |    |                             |   | -9 1          | Unknown       |  |
|   |    |                             |   | -99 [         | Not Reported  |  |
|   | 86 | ajcc_staging_system_edition | The version or edition of the American Joint Committee on   | radio         |               |  |
|   |    | ,                           | Cancer Staging Handbooks, a publication by the group  |               | 1st           |  |
|   |    |                             | formed for the purpose of developing a system of staging for cancer that is acceptable to the American medical profession | l <del></del> | 2nd           |  |
|   |    |                             | and is compatible with other accepted classifications.  | l <del></del> | 3rd           |  |
|   |    |                             |   | l <del></del> | 4th           |  |
|   |    |                             |   | I <del></del> | 5th           |  |
|   |    |                             |   | l <del></del> | 6th           |  |
|   |    |                             |   | l <del></del> | 7th           |  |
|   |    |                             |   | l <del></del> | 8th           |  |
|   |    |                             |   | l             | Unknown       |  |
|   |    |                             |   | l <del></del> |               |  |
|   |    |                             |   |               | Not Reported  |  |
|   | 87 | anaplasia_present           | Section Header: Anaplasia   | radio         | V             |  |
|   |    |                             | Was anaplasia present at the time of diagnosis?   | l <del></del> | Yes           |  |
|   |    |                             |   | l <del></del> | No            |  |
|   |    |                             |   | I             | Unknown       |  |
| L |    |                             |   | -99           | Not Reported  |  |
|   |    |                             |   |               |               |  |

|  | Genomics Thailand Registry   REDCap |                                      |  |       |  |  |  |
|--|-------------------------------------|--------------------------------------|--|-------|--|--|--|
|  | 88                                  | anaplasia_present_type               | The morphologic findings indicating the presence of a  | radio |  |  |  |
|  |                                     |                                      | malignant cellular infiltrate characterized by the presence of large pleomorphic cells, necrosis, and high mitotic activity in a             | 0     | Absent                                 |  |  |
|  |                                     |                                      | tissue sample.   | 1     | Diffuse                                |  |  |
|  |                                     |                                      |  | 2     | Equivocal                              |  |  |
|  |                                     |                                      |  | 3     | Focal                                  |  |  |
|  |                                     |                                      |  | 4     | Present                                |  |  |
|  |                                     |                                      |  | 5     | Sclerosis                              |  |  |
|  |                                     |                                      |  | -9    | Unknown                                |  |  |
|  |                                     |                                      |  | -99   | Not Reported                           |  |  |
|  | 89                                  | ann_arbor_b_symptoms                 | Section Header: Ann Arbor Lymphoma Staging System for Lymphoma   | radio | radio                                  |  |  |
|  |                                     |                                      | Text term to signify whether lymphoma B-symptoms are   | 1     | Yes                                    |  |  |
|  |                                     |                                      | present as noted in the patient's medical record.  | 0     | No                                     |  |  |
|  |                                     |                                      |  | -9    | Unknown                                |  |  |
|  |                                     |                                      |  | -99   | Not Reported                           |  |  |
|  | 90                                  | ann_arbor_clinical_stage             | The clinical classification of lymphoma, as defined by the Ann   | radio | )                                      |  |  |
|  |                                     |                                      | Arbor Lymphoma Staging System.   | 0     | Stage I                                |  |  |
|  |                                     |                                      |  | 1     | Stage II                               |  |  |
|  |                                     |                                      |  | 2     | Stage III                              |  |  |
|  |                                     |                                      |  | 3     | Stage IV                               |  |  |
|  |                                     |                                      |  | -9    | Unknown                                |  |  |
|  |                                     |                                      |  | -99   | Not Reported                           |  |  |
|  | 91                                  | ann_arbor_extranodal_involve<br>ment | Indicator that identifies whether a patient with malignant lymphoma has lymphomatous involvement of an extranodal site.                      | radic | )                                      |  |  |
|  |                                     |                                      |  | 1     | Yes                                    |  |  |
|  |                                     |                                      |  | 0     | No                                     |  |  |
|  |                                     |                                      |  | -9    | Unknown                                |  |  |
|  |                                     |                                      |  | -99   | Not Reported                           |  |  |
|  | 92                                  | ann_arbor_pathologic_stage           | The pathologic classification of lymphoma, as defined by the Ann Arbor Lymphoma Staging System.  | radio |  |  |  |
|  |                                     |                                      |  | 0     | Stage I                                |  |  |
|  |                                     |                                      |  | 1     | Stage II                               |  |  |
|  |                                     |                                      |  | 2     | Stage III                              |  |  |
|  |                                     |                                      |  | 3     | Stage IV                               |  |  |
|  |                                     |                                      |  | -9    | Unknown                                |  |  |
|  |                                     |                                      |  | -99   | Not Reported                           |  |  |
|  | 93                                  | burkitt_lymphoma_clinical_vari       | Burkitt's lymphoma categorization based on clinical features   | radic | )                                      |  |  |
|  |                                     | ant                                  | that differ from other forms of the same disease.  | 0     | Endemic                                |  |  |
|  |                                     |                                      |  | 1     | Immunodeficiency-associated, adult     |  |  |
|  |                                     |                                      |  | 2     | Immunodeficiency-associated, pediatric |  |  |
|  |                                     |                                      |  | 3     | Sporadic, adult                        |  |  |
|  |                                     |                                      |  | 4     | Sporadic, pediatric                    |  |  |
|  |                                     |                                      |  | -9    | Unknown                                |  |  |
|  |                                     |                                      |  | -99   | Not Reported                           |  |  |
|  | 94                                  | breslow_thickness                    | The number that describes the distance, in millimeters, between the upper layer of the epidermis and the deepest point of tumor penetration. | text  |  |  |  |
|  |                                     |                                      | point of turnor perietration.  |       |  |  |  |

|   |         |                                 | Octionics mailand registry   INE  | '   |
|---|---------|---------------------------------|---|---|
|   | 96 cira | ild_pugh_classification         | Section Header: Child Pugh Classification The classification used in the prognosis of chronic liver disease, mainly cirrhosis.  Section Header: Rectum Cancer   | radio  0  |
|   | gin     | 1                               | The number that represents the area of non-peritonealised bare area of rectum, comprising anterior and posterior segments, when submitted as a surgical specimen resulting from excision of cancer of the rectum. |   |
| Ğ | 97 со   | g_liver_stage                   | The staging classification of liver tumors, as defined by the Children's Oncology Group (COG). This staging system specifically describes the extent of the primary tumor prior to treatment.                     | radio  0 Stage I  1 Stage II  2 Stage III  3 Stage IV  -9 Unknown  -99 Not Reported |
| Ğ | 98 cos  | g_neuroblastoma_risk_grou       | The categorization of patients on the basis of prognostic factors per a system developed by Children's Oncology Group (COG). Risk level is used to assign treatment intensity.                                    | radio  3 High Risk  2 Intermediate Risk  1 Low Risk  -9 Unknown  -99 Not Reported   |
| ğ | 99 cog  | g_renal_stage                   | The staging classification of renal tumors, as defined by the Children's Oncology Group (COG).  | radio  0 Stage I  1 Stage II  2 Stage III  3 Stage IV  -9 Unknown  -99 Not Reported |
| 1 |         | g_rhabdomyosarcoma_risk_<br>oup | The classification of rhabdomyosarcoma, as defined by the Children's Oncology Group (COG).  | radio  3 High Risk  2 Intermediate Risk  1 Low Risk  -9 Unknown  -99 Not Reported   |
|   |         | neking_msts_grade               | The surgical grade of the musculoskeletal sarcoma, using the Enneking staging system approved by the Musculoskeletal Tumor Society (MSTS).  | radio  2 High Grade (G2)  1 Low Grade (G1)  -9 Unknown  -99 Not Reported            |
| 1 | 02 en   | neking_msts_metastasis          | The metastatic stage of the musculoskeletal sarcoma, using the Enneking staging system approved by the Musculoskeletal Tumor Society (MSTS).  | text  |
| 1 | 03 dia  | agnosis_info_gdc_complete       | Section Header: Form Status  Complete?  | dropdown  0 Incomplete  1 Unverified  2 Complete                                    |