Demographic Data

Database Record ID	
Participant ID (Get this from the Participant Registry Database) Input the whole ID e.g. SI-00001	([S][1]-[_][_][_][_][_])
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.]	○ Female○ Male○ Unknown○ Unspecified/Not reported
Birthday (DD-MM-YYYY)	
Date the consent was obtained and participant recruited	
The current project that the patient is enrolled in Genomics Thailand	○ Cancer○ Rare disease○ Pharmacogenomics○ NCD○ Infectious Diseases
Is this patient the index case? Answer "No" if this is the relatives of the index case.	
Relationship to the index case	○ Uncle/Aunt○ Grandparents○ Parents○ Siblings
For cancer and rare disesae, do the patient have a family history?	○ No○ Yes○ None cancer○ Not rare disease○ Unkonwn
Hospital that recruited the patient	Referred from other hospitalSiriraj HospitalUnknown
Hospital Name	
Health policy used by the patient	 Universal Coverage Social Security Government Healthcare Private/Insurance No coverage



Biospecimens obtained from the patient	☐ Blood☐ Surgical tissues☐ Buccal swab☐ Skin biopsy
Has the patient received any genetic test before	 No Yes but positive result not related to the current disesae Yes but got negative result Yes with positive result for the current condition
For rare disease, do you know the diagnosis of your condition?	○ No○ Yes○ Not related to the current condition
How many years have you been given the diagnosis (rounding months up to the nearest year)	
Treatment status of the patient	 Never receive treatment Complete treatment Targeted treatment specific to the disease Paliative care Treatment is not applicable

Choose the organ with disease manifestation	Brain Eyes Head and neck Lungs or respiratory track Esophagus Stomach Small intestine Large bowel and anus Liver and bile ducts Pancreas Uterus or Prostate Ovary or Testis Other internal reproductive organ Other exteral reproductive organ Kidney Urinary track Breast Heart muscle Heart valve Cardiac conduction system Arterial disease Venous system Lymphatic vessels Lymph node Connective tissue Red Blood Cells White Blood Cells Platelets Bone marrow Skeletal muscles Bone and joint Immune system Peripheral nervous system Spinal cord Vertebrae Ears/Hearing Skiin
Demographics	
An individual's self-described social and cultural grouping, specifically whether an individual describes themselves as Hispanic or Latino. The provided values are based on the categories defined by the U.S. Office of Management and Business and used by the U.S. Census Bureau.	○ Hispanic or Latino○ Not Hispanic or Latino○ Unknown○ Not reported/Not allowed to collect
An arbitrary classification of a taxonomic group that is a division of a species. It usually arises as a consequence of geographical isolation within a species and is characterized by shared heredity, physical attributes and behavior, and in the case of humans, by common history, nationality, or geographic distribution. The provided values are based on the categories defined by the U.S. Office of Management and Business and used by the U.S. Census Bureau.	 ○ Asian ○ White ○ American Indian or Alaska native ○ Black or African American ○ Native Hawaiian or Other Pacific Islanders ○ Other ○ Unknown/not reported ○ Not allowed to collect
The type of obtained consent from the subject for participation in the study	Consent by DeathConsent ExemptionConsent WaiverInformed Consent

Number of days between the date used for index and the date the subject consent was obtained for participation in the study.	
The number of days between the date used for index and to the date the patient was lost to follow-up.	
Indexed Date	
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.	
A numeric value representing the calendar year in which an individual was born. (Christian Era: 1900 - 2100)	(Christian Era = Buddhist Era - 543)
The yes/no/unknown indicator used to describe whether the patient was premature (less than 37 weeks gestation) at birth.	YesNoUnknownNot Reported
Numeric value used to describe the number of weeks starting from the approximate date of the biological mother's last menstrual period and ending with the birth of the patient.	(Integer only (0-45))



Germline Testing Indication

Cancer Type	 ○ Breast cancer ○ CA Ovary OR Pancreatic Cancer ○ Metastatic Prostate Cancer ○ Adenomatous Polyps > 10 or Harmatoma > 2 ○ Colon cancer or endometrial cancer ○ Multiple cancers or hereditary cancer syndromes ○ Pediatric cancer (< 18 y-o) ○ Rare cancer
Detail of multiple cancers or hereditary cancer syndrome	
Detail of pediatric cancer or rare cancer	
Breast Cancer	
Age with the first breast cancer	
Male breast cancer	
The patient has a triple-negative breast cancer	○ Yes ○ No
Indication for testing in a female patient with breast cancer before the age of 50	 ☐ Second primary breast cancer ☐ History of breast cancer in first-degree relatives ☐ History of pancreatic cancer in first- or second-degree relatives.
Additional criteria for breast cancer germline testing	 □ At least 2 first-degree relatives with breast cancer, pancreatic cancer, or prostate cancer □ At least 1 first-degree relatives with breast cancer before 50-year-old. □ History of "SARCOMA" □ History of OTHER cancers before 45-year-old □ History of adrenocortical cancer, glioma, or choroid plexus cancer □ At least 1 first/second-degree relatives with cancer before 45-year-old
Colon Cancer or Endometrial Cancer	
Additional criteria for germline testing for colon cancer or endometrial cancer	 □ Colon cancer or endometrial cancer before 50-year-old □ History of synchronous/metachronous colon/endometrial cancer □ At least 1 first-degree relative with colon/endometrial cancer before 50-year-old □ Abnormal MMR protein or MSI-H in cancer tissue



Survival Status

Vital Status	
The survival state of the person registered on the protocol.	○ Alive○ Dead○ Unknown○ Not Reported
Death Date (DD-MM-YYYY AD)	
Cause of Death	
Text term to identify the cause of death for a patient.	 Cancer Related Cardiovascular Disorder, NOS End-stage Renal Disease Infection Not Cancer Related Renal Disorder, NOS Spinal Muscular Atrophy Surgical Complications Toxicity Not Reported Unknown
The source used to determine the patient's cause of death.	 Autopsy Death Certificate Medical Record Social Security Death Index Unknown Not Reported
Number of days between the date used for index and the date from a person's date of death represented as a calculated number of days.	
Numeric value to represent the year of the death of an individual.	



Treatment Info

Treatment	
Treatment received by the patients	 No Treatment Unkown Resection Paliative Surgery Single agent chemotherapy Multiple chemotherapy Bone marrow transplant Targeted therapy Immune checkpoint blockade cellular therapy external radiation internal or radionuclide ablation
The best improvement achieved throughout the entire course of protocol treatment.	 J-Adjuvant Therapy CPD-Clinical Progression CR-Complete Response CRU-Complete Response Unconfirmed DU-Disease Unchanged IMR-Immunoresponse IPD-Immunoprogression MR-Minimal/Marginal Response MX-Mixed Response Non-CR/Non-PD-Non-CR/Non-PD NPB-No Palliative Benefit NR-No Response PA-Palliative Therapy PB-Palliative Benefit PD-Progressive Disease PPD-Pseudoprogression PR-Partial Response RP-Response RP-Response RP-Response SCR-Stringent Complete Response SD-Stable Disease SPD-Surgical Progression TE-Too Early VGPR-Very Good Partial Response
Regimen used including dose and cycles	
Detail of radiation therapy received by the patients	



Follow Up Info - GDC

The patient was unable to be contacted or seen for follow-up information.	YesNoUnknown	
Date Last Follow Up		
		
The last known state or condition of an individual's neoplasm	 With tumor Distant met recurrence/progression Loco-regional recurrence/progression Biochemical evidence of disease without structura correlate Tumor free Unknown tumor status not reported/Not Allowed To Collect 	
Date of the last known status: [last_known_disease_status]		
Evidence supporting progression	X-rayBoon scanCT/MRIPET/PET-CTOthers	
Last Follow Up		
Time interval from the date of last follow up to the date of initial pathologic diagnosis, represented as a calculated number of days.		
Time interval from the date of last follow up to the date of initial pathologic diagnosis, represented as a calculated number of days.		
Response		
Did the patient has had a new tumor event after initial treatment?	YesNo∪ unknown∪ not reported/Not Allowed To Collect	
Date of the first recurrence or progression		
Number of days between the date used for index and the date the patient's disease recurred		
The date that the best response was recorded (DD-MM-YYYY)		
Number of days between the date used for index and the date of the patient was thought to have the best overall response to their disease.		



Diagnosis Info - GDC



The type of malignant disease (cellular morphology), as categorized by the World Health Organization's (WHO) International Classification of Diseases for Oncology (ICD-O).	 Acinar Cell Neoplasms Adenomas and Adenocarcinomas Adnexal and Skin Appendage Neoplasms Basal Cell Neoplasms Blood Vessel Tumors Chronic Myeloproliferative Disorders Complex Epithelial Neoplasms
	 Complex Mixed and Stromal Neoplasms Cystic, Mucinous and Serous Neoplasms Ductal and Lobular Neoplasms Epithelial Neoplasms, NOS Fibroepithelial Neoplasms
	Fibromatous NeoplasmsGerm Cell NeoplasmsGiant Cell TumorsGliomas
	 Granular Cell Tumors and Alveolar Soft Part Sarcomas Hodgkin Lymphoma Immunoproliferative Diseases Leukemias, NOS
	 Lipomatous Neoplasms Lymphatic Vessel Tumors Lymphoid Leukemias Malignant Lymphomas, NOS or Diffuse
	Mast Cell TumorsMature B-Cell LymphomasMature T- and NK-Cell LymphomasMeningiomas
	MesonephromasMesothelial NeoplasmsMiscellaneous Bone TumorsMiscellaneous Tumors
	 Mucoepidermoid Neoplasms Myelodysplastic Syndromes Myeloid Leukemias Myomatous Neoplasms
	 Myxomatous Neoplasms Neoplasms, NOS Neoplasms of Histiocytes and Accessory Lymphoid Cells
	 Nerve Sheath Tumors Neuroepitheliomatous Neoplasms Nevi and Melanomas Odontogenic Tumors
	 Osseous and Chondromatous Neoplasms Other Hematologic Disorders Other Leukemias Paragangliomas and Glomus Tumors
	 Plasma Cell Tumors Precursor Cell Lymphoblastic Lymphoma Soft Tissue Tumors and Sarcomas, NOS Specialized Gonadal Neoplasms
	 Squamous Cell Neoplasms Synovial-like Neoplasms Thymic Epithelial Neoplasms Transitional Cell Papillomas and Carcinomas
	 Trophoblastic neoplasms Unknown Not Reported or Not Applicable



The primary site of disease, as categorized by the World Health Organization's (WHO) International Classification of Diseases for Oncology (ICD-O). This categorization groups cases into general categories. Reference tissue_or_organ_of_origin on the diagnosis node for more specific primary sites of disease.

(Accessory sinus	ses	
	Adrenal gland		
	Anus and anal o	canal	
	Base of tongue		
) Bladder		
	🔵 Bones, joints ar	nd articular cartila	age of limbs
	🔵 Bones, joints ar	nd articular cartila	age of other and
	unspecified site	·S	
_) Brain		
_) Breast		
	Bronchus and lu	ıng	
	Cervix uteri		
_	Colon		
	Connective, sub	ocutaneous and o	ther soft tissues
	Corpus uteri		
	Esophagus		
	Eye and adnexa	a e e e e e e e e e e e e e e e e e e e	
	Floor of mouth		
_	Gallbladder		
	Gum		
	Heart, mediasti		bla ali ali avi akaina a
	Hematopoietic	and reticuloendo	ineliai systems
	Hypopharynx		
_	Kidney		
_)Larynx)Lip		
) Liver and intrah	enatic hile ducts	
	Lymph nodes	iepatic blie ducts	
) Meninges		
	Nasal cavity and	d middle ear	
	Nasopharynx		
	Oropharynx		
	Other and ill-de	fined digestive o	rgans
	Other and ill-de		
	Other and ill-de	fined sites in lip,	oral cavity
	and pharynx		-
	Other and ill-de	fined sites within	respiratory
		athoracic organs	
	Other and unsp	ecified female ge	enital organs
(Other and unsp		
(ecified male geni	
	Other and unsp		
_	Other endocrine	e giarius ariu reia	tea structures
)Ovary)Palate		
) Pancreas		
	Parotid gland		
>	Penis		
		es and autonomic	nervous system
) Placenta		
_	Prostate gland		
	Pyriform sinus		
	Rectosigmoid ju	ınction	
	Rectum		
	Renal pelvis		
	Retroperitoneur	m and peritoneur	n
	Skin		
	Small intestine		
(Spinal cord, cra		other parts of
	central nervous	system	
	Stomach		
	Testis		
	Thymus Thyroid gland		
	Thyroid gland Tonsil		
(Trachea	projectredcap.org	REDCap
-		, -,	



O Harton
○ Ureter
○ Uterus, NOS
○ Vagina
○ Vulva
 Unknown or Not Reported

Detail of The Tumor	
Date of Initial Pathological Diagnosis	
Text term used to describe the patient's histologic diagnosis, as described by the World Health Organization's (WHO) International Classification of Diseases for Oncology (ICD-O).	
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	
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)	
Number of days between the date used for index and the date the patient was diagnosed with the malignant disease.	
Age at the time of diagnosis expressed in number of days since birth. integer, null	
The patient's age (in years) on the reference or anchor date date used during date obfuscation.	
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.	○ True○ False
The kind of disease present in the tumor specimen as related to a specific timepoint.	 primary metastasis recurrence other Unknown not reported/Not Allowed To Collect

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	
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	
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)	

AJCC Tumor Clinical Grading



○ T0	
○ T1a	
○ T1a1	
○ T1b	
Tis (DCIS)	
Tis (Paget's)	
	 ⊤1 ⊤1a ⊤1a1 ⊤1a2 ⊤1b

Extent of the regional lymph node involvement for the cancer based on evidence obtained from clinical assessment parameters determined prior to treatment.	N0 N0 (i+) N0 (mol+) N0 (mol-) N1 N1a N1b N1bl N1bll N2c N2a N2b N2c N3 N3a N3b N3c N4 NX Unknown Not Reported
Extent of the distant metastasis for the cancer based on evidence obtained from clinical assessment parameters determined prior to treatment	<pre> M0 M1 M1a M1b M1c MX cM0 (i+) Unknown Not Reported/Less Values</pre>
AJCC Tumor Pathologic Grading	
Numeric value to express the degree of abnormality of cancer cells, a measure of differentiation and aggressiveness	 G1 G2 G3 G4 GX GB High Grade Low Grade Unknown Not Reported



Stage group determined from clinical information on the tumor (T), regional node (N) and metastases (M) and by grouping cases with similar prognosis for cancer.	Stage 0 Stage 0a Stage 0is Stage IA Stage IA Stage IA Stage IA2 Stage IB Stage IB1 Stage IB2 Stage IIA Stage IIA Stage IIA Stage IIA Stage IIA1 Stage IIA1 Stage IIA2 Stage IIB Stage IIIC Stage IV
Code to represent the defined absence or presence of distant spread or metastases (M) to locations via vascular channels or lymphatics beyond the regional lymph nodes, using criteria established by the American Joint Committee on Cancer (AJCC).	 M0 M1 M1a M1b M1c M2 MX cM0 (i+) Unknown Not Reported



the nodes present (N stage) according to criteria based on multiple editions of the AJCC's Cancer Staging Manual.	NO NO (i+) NO (mol+) NO (mol-) N1 N1a N1b N1bI N1bIII N1bIV N1c N1mi N2 N2a N2b N2c N3 N3a N3b N3c N4 NX Unknown Not Reported
The extent of a cancer, especially whether the disease has spread from the original site to other parts of the body based on AJCC staging criteria.	Stage 0 Stage 0is Stage I Stage IA Stage IA Stage IA1 Stage IA2 Stage IB Stage IB1 Stage IB2 Stage IC Stage II Stage IIA Stage IIA1 Stage IIA2 Stage IIIA1 Stage IIIA2 Stage IIIA Stage IIIC1 Stage IIIC1 Stage IIIC1 Stage IIIC1 Stage IIIC1 Stage IVA



Code of pathological T (primary tumor) to define the size or contiguous extension of the primary tumor (T), using staging criteria from the American Joint Committee on Cancer (AJCC).	T0 T1 T1a T1a1 T1a2 T1b T1b1 T1b2 T1c T1mi T2 T2a T2a1 T2a2 T2b T2c T2d T3 T3a T3a T3c T3d T4 T4a T4b T4c T4d T4e TX Ta Tis Tis (LCIS) Tis (Paget's) Unknown Not Reported
The version or edition of the American Joint Committee on Cancer Staging Handbooks, a publication by the group formed for the purpose of developing a system of staging for cancer that is acceptable to the American medical profession and is compatible with other accepted classifications.	 ☐ 1st ☐ 2nd ☐ 3rd ☐ 4th ☐ 5th ☐ 6th ☐ 7th ☐ 8th ☐ Unknown ☐ Not Reported
Anaplasia	
Was anaplasia present at the time of diagnosis?	YesNoUnknownNot Reported

The morphologic findings indicating the presence of a malignant cellular infiltrate characterized by the presence of large pleomorphic cells, necrosis, and high mitotic activity in a tissue sample.	 Absent Diffuse Equivocal Focal Present Sclerosis Unknown Not Reported
Ann Arbor Lymphoma Staging System for Lymphor	na
Text term to signify whether lymphoma B-symptoms are present as noted in the patient's medical record.	YesNoUnknownNot Reported
The clinical classification of lymphoma, as defined by the Ann Arbor Lymphoma Staging System.	Stage IStage IIStage IIIStage IVUnknownNot Reported
Indicator that identifies whether a patient with malignant lymphoma has lymphomatous involvement of an extranodal site.	YesNoUnknownNot Reported
The pathologic classification of lymphoma, as defined by the Ann Arbor Lymphoma Staging System.	Stage IStage IIStage IIIStage IVUnknownNot Reported
Burkitt's lymphoma categorization based on clinical features that differ from other forms of the same disease.	 Endemic Immunodeficiency-associated, adult Immunodeficiency-associated, pediatric Sporadic, adult Sporadic, pediatric Unknown Not Reported
The number that describes the distance, in millimeters, between the upper layer of the epidermis and the deepest point of tumor penetration.	
Child Pugh Classification	



The classification used in the prognosis of chronic liver disease, mainly cirrhosis.	 A A5 A6 B B7 B8 B9 C C10 C11 C12 Unknown Not Reported
Rectum Cancer	
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.	
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.	Stage IStage IIStage IIIStage IVUnknownNot Reported
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.	○ High Risk○ Intermediate Risk○ Low Risk○ Unknown○ Not Reported
The staging classification of renal tumors, as defined by the Children's Oncology Group (COG).	Stage IStage IIStage IIIStage IVUnknownNot Reported
The classification of rhabdomyosarcoma, as defined by the Children's Oncology Group (COG).	○ High Risk○ Intermediate Risk○ Low Risk○ Unknown○ Not Reported
The surgical grade of the musculoskeletal sarcoma, using the Enneking staging system approved by the Musculoskeletal Tumor Society (MSTS).	 High Grade (G2) Low Grade (G1) Unknown Not Reported
The metastatic stage of the musculoskeletal sarcoma, using the Enneking staging system approved by the Musculoskeletal Tumor Society (MSTS).	



Genomics Data

Germline (Blood) Data		
Germline WGS Data	○ Yes ○ No	
Full path location for Germline WGS fastq1 For example (gs://xxxx) or /gnome/[path]		
Full path location for Germline WGS fastq2 For example (gs://xxxx) or /gnome/[path]		
Germline WXS Data	○ Yes ○ No	
Full path location for Germline WXS fastq1 For example (gs://xxxx) or /gnome/[path]		
Full path location for Germline WXS fastq2 For example (gs://xxxx) or /gnome/[path]		
Germline Whole Transcriptome Data	○ Yes ○ No	
Full path location for Germline WTS fastq1 For example (gs://xxxx) or /gnome/[path]		
Full path location for Germline WTS fastq2 For example (gs://xxxx) or /gnome/[path]		
Tumor		
Tumor WGS Data	○ Yes ○ No	
Full path location for Germline WGS fastq1 For example (gs://xxxx) or /gnome/[path]		
Full path location for tumor WGS fastq2 For example (gs://xxxx) or /gnome/[path]		
tumor WXS Data	○ Yes ○ No	
Full path location for tumor WXS fastq1 For example (gs://xxxx) or /gnome/[path]		
Full path location for tumor WXS fastq2 For example (gs://xxxx) or /gnome/[path]		
tumor Whole Transcriptome Data	○ Yes ○ No	



Full path location for tumor WTS fastq1 For example (gs://xxxx) or /gnome/[path]	
Full path location for tumor WTS fastq2 For example (gs://xxxx) or /gnome/[path]	

