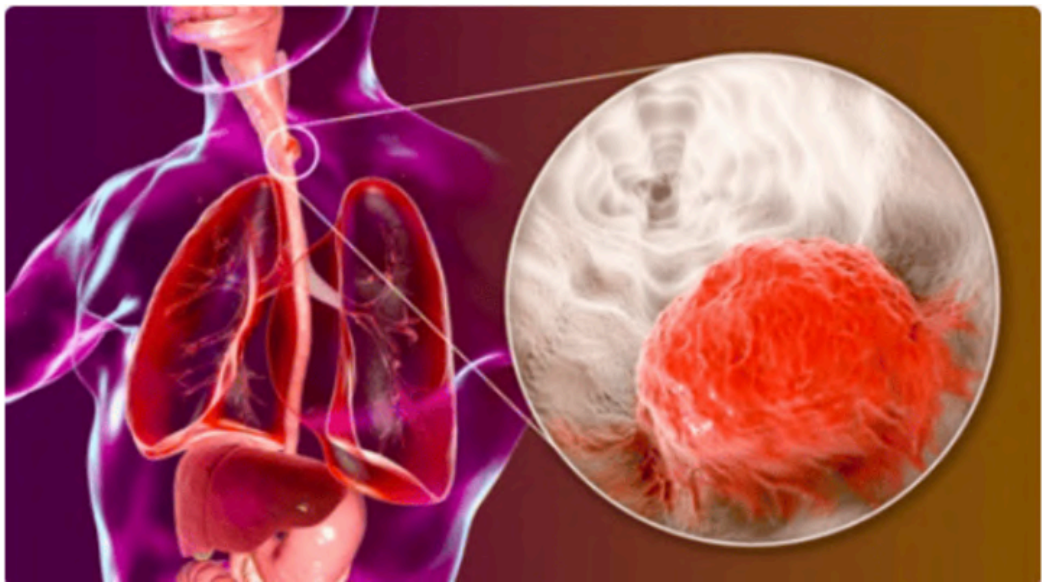
ESOPHAGEAL CANCER PREDICTION



Introduction

Esophageal cancer remains one of the most aggressive cancers with a high mortality rate worldwide, presenting significant challenges for early detection and effective treatment. To support the global fight against this disease, we introduce a comprehensive clinical dataset on esophageal cancer, available on Kaggle. This dataset includes patient demographics, clinical data, and cancer-specific attributes that can be leveraged to develop AI models for detection, prognosis, and treatment planning.

Scientific Overview

This dataset is a valuable resource for healthcare professionals and researchers working on cancer detection, personalized treatments, and prognosis models. It includes:

- **Patient demographics** (e.g., age, gender)
- **Tumor histology and staging information**
- **Treatment history**
- **Lymph node examination results**

These real-world clinical attributes provide a robust foundation for AI-driven solutions in the diagnosis and treatment of esophageal cancer.

Dataset Composition

1. Patient Demographics

- **Patient Barcode**: Unique patient identifier.
- **Tissue Source Site**: Code indicating the site from which the tissue sample was sourced.
- **Age at Diagnosis**: Facilitates age-based studies on incidence and outcomes.
- **Gender**: Enables gender-specific analysis of disease progression.
- **Informed Consent Verified**: Indicates whether informed consent was obtained.

2. Medical and Clinical History

- **ICD-10 and ICD-O-3 Codes**: Provides International Classification of Diseases codes for the site and histology, essential for understanding tumor characteristics (e.g., squamous cell carcinoma, adenocarcinoma).
- **Comorbidities**: Includes information on the presence of other chronic diseases like Gastroesophageal Reflux Disease (GERD) that could impact treatment outcomes.
- **Smoking Status**: Critical for evaluating the impact of smoking on esophageal cancer risk and prognosis.

3. Cancer-Specific Data

- **Tumor Location**: Identifies the part of the esophagus affected (e.g., upper, middle, or lower).
- **Histology**: Details the type of cancer (e.g., squamous cell carcinoma, adenocarcinoma).
- **Cancer Stage**: Describes the stage of cancer at diagnosis (Stages 0 to IV).
- **Residual Tumor Status**: Indicates whether any tumors remained post-surgery (e.g., R0, R1).
- **Lymph Node Examination**: Information such as the number of lymph nodes examined and those positive for metastasis.
- **Radiation Therapy and Postoperative Treatment**: Indicates whether the patient received radiation therapy and additional postoperative treatments.

4. Clinical Outcome Data

- **Karnofsky Performance Score**: Assesses the patient's ability to perform daily activities.
- **Eastern Cooperative Oncology Group (ECOG) Performance Status**: Evaluates the functional status of cancer patients.

Implementation Guide

1. Data Preprocessing

- **Data Cleaning**:
  - Remove irrelevant or redundant entries and ensure consistency across the dataset (e.g., handling missing values in performance scores and treatment history).
- **Normalization**:
  - Standardize clinical data for model input, especially for numerical variables like age, lymph node count, and performance scores.

2. Model Training

- **Frameworks**:
  - Use machine learning or deep learning frameworks such as TensorFlow, PyTorch, or scikit-learn.
- **Model Selection**:
  - Depending on dataset complexity, models like Decision Trees, Random Forests, or Neural Networks can be used.
- **Evaluation**:
  - Measure model performance using metrics like accuracy, precision, recall, and F1-score.

3. Deployment

- **Clinical Decision Support**:
  - Integrate the trained model into tools for medical professionals, offering predictions or insights to support diagnosis and treatment planning for esophageal cancer.
- **Testing and Feedback**:
  - Test the model for accuracy and usability, incorporating a feedback loop to continuously improve model performance.

Potential Applications

1. Machine Learning Models

- Ideal for developing algorithms for early detection, personalized treatment plans, and prognosis prediction.

2. Healthcare Insights

- Assists clinicians in optimizing patient care strategies and treatment protocols.

3. Academic Research

- Facilitates studies on the pathophysiology of esophageal cancer, risk factor assessment, and the effectiveness of various treatments.

Conclusion

The Esophageal Cancer Dataset provides high-quality, comprehensive clinical data, essential for advancing research in esophageal cancer detection, treatment, and prognosis. We encourage the research community to utilize this dataset to drive innovation and improve patient outcomes.

EXPLORATORY DATA ANALYSIS (EDA):

In [189…

```
import pandas as pd

df = pd.read_csv('https://raw.githubusercontent.com/baala-saravanan/DSML_Fir
df.head(10)
```

Out[189…

	Unnamed: 0	patient_barcode	tissue_source_site	patient_id	bcr_patient_uuid
0	0	TCGA-2H-A9GF	2H	A9GF	0500F1A6-A528 43F3-B035 12D3B7C99C0
1	1	TCGA-2H-A9GG	2H	A9GG	70084008-697D 442D-8F74 C12F8F59857
2	2	TCGA-2H-A9GH	2H	A9GH	606DC5B8-7625 42A6-A936 504EF25623A
3	3	TCGA-2H-A9GI	2H	A9GI	CEAF98F8-517E 457A-BF29 ACFE22893D4
4	4	TCGA-2H-A9GJ	2H	A9GJ	EE47CD59-C8D8 4B1E-96DB 91C679E4106
5	5	TCGA-2H-A9GK	2H	A9GK	61DF8A4B-95F8 40AB-A252 D00C4300C29
6	6	TCGA-2H-A9GL	2H	A9GL	AB2755D2-5BD9 4E2F-B255 E813AFC8D26
7	7	TCGA-2H-A9GM	2H	A9GM	6584FA8F-B4F4 4844-A71E 3BFB731AD44
8	8	TCGA-2H-A9GN	2H	A9GN	078DC5F1-D2DC 4408-B785 27703C7813F
9	9	TCGA-2H-A9GO	2H	A9GO	CA400EA1-3E4E 437E-A54C 446431B741D

10 rows × 85 columns

In [190…

```
df.tail(10)
```

Out[190…

	Unnamed: 0	patient_barcode	tissue_source_site	patient_id	bcr_patient_
3975	3990	1dfe0a1e-66c5-43ba-9a7f-645fbf395058	VR	AA7I	A34C2EDA-3 4EB8-9 A5CCC819I
3976	3991	4a1d4c25-3a08-49c5-8027-ae0a4ed8bd1a	X8	AAAR	CAF9B681-A 4A6D-A C4592622(
3977	3992	be9897e8-ff79-49ec-81d6-cd720c212dd8	XP	A8T6	F4CB24E9-E 4245-9 7E093403
3978	3993	68cb164e-f556-4e4e-bcce-7eab08793605	XP	A8T7	59DD907E-C 46C2-B 63517D5A
3979	3994	5ea1ef83-6efb-4974-8495-ea93592ef976	XP	A8T8	8D3CCAF0-8 4EE3-B 847180FE(
3980	3995	677b83fe-4dbd-410e-aea8-62d68a80f652	Z6	A8JD	B997D486-8 4926-9 D2AFDAF2
3981	3996	a4faa9ff-b9a1-4a4c-9929-bb0154030067	Z6	A8JE	1116DDAE-7 48D6-8 BE65D8B0
3982	3997	6bdc4fc8-8d76-4886-bf13-e282f4b1476b	Z6	A9VB	1C2837D4-B 46F7-9 683B82A1
3983	3998	d61e44e1-06ed-4849-85d7-3b360dd03721	Z6	AAPN	2659BB79-9 4476-A F3800536
3984	3999	20459cd1-73f5-4b54-8f86-406247c575f7	ZR	A9CJ	FDCDF592-6 4027-9 A64D49BE

10 rows × 85 columns

In [191…

```
df.shape
```

Out[191…

```
(3985, 85)
```

In [192…

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3985 entries, 0 to 3984
Data columns (total 85 columns):
 #   Column                                                      Non-Null
Count  Dtype
---  ------                                                      --------
------  -----
 0   Unnamed: 0                                                  3985 non
-null   int64
 1   patient_barcode                                             3985 non
-null   object
 2   tissue_source_site                                          3985 non
-null   object
 3   patient_id                                                  3985 non
-null   object
 4   bcr_patient_uuid                                            3985 non
-null   object
 5   informed_consent_verified                                   3985 non
-null   object
 6   icd_o_3_site                                                3985 non
-null   object
 7   icd_o_3_histology                                           3985 non
-null   object
 8   icd_10                                                      3985 non
-null   object
 9   tissue_prospective_collection_indicator                     3945 non
-null   object
 10  tissue_retrospective_collection_indicator                   3945 non
-null   object
 11  days_to_birth                                               3985 non
-null   int64
 12  country_of_birth                                            2058 non
-null   object
 13  gender                                                      3985 non
-null   object
 14  height                                                      3766 non
-null   float64
 15  weight                                                      3945 non
-null   float64
 16  country_of_procurement                                      3945 non
-null   object
 17  state_province_of_procurement                               2705 non
-null   object
 18  city_of_procurement                                         3125 non
-null   object
 19  race_list                                                   3566 non
-null   object
 20  ethnicity                                                   1937 non
-null   object
 21  other_dx                                                    3985 non
-null   object
 22  history_of_neoadjuvant_treatment                            3985 non
-null   object
 23  person_neoplasm_cancer_status                               3650 non
-null   object
 24  vital_status                                                3985 non
```

```
-null   object
 25  days_to_last_followup                                          2788 non
-null   float64
 26  days_to_death                                                  1197 non
-null   float64
 27  tobacco_smoking_history                                        3605 non
-null   float64
 28  age_began_smoking_in_years                                     1732 non
-null   float64
 29  stopped_smoking_year                                           1608 non
-null   float64
 30  number_pack_years_smoked                                       2169 non
-null   float64
 31  alcohol_history_documented                                     3925 non
-null   object
 32  frequency_of_alcohol_consumption                               2469 non
-null   float64
 33  amount_of_alcohol_consumption_per_day                          2108 non
-null   float64
 34  reflux_history                                                 3308 non
-null   object
 35  antireflux_treatment_types                                     997 non-
null    object
 36  h_pylori_infection                                             1557 non
-null   object
 37  initial_diagnosis_by                                           3247 non
-null   object
 38  barretts_esophagus                                             3167 non
-null   object
 39  goblet_cells_present                                           419 non-
null    object
 40  history_of_esophageal_cancer                                   3148 non
-null   object
 41  number_of_relatives_diagnosed                                  839 non-
null    float64
 42  has_new_tumor_events_information                               3985 non
-null   object
 43  day_of_form_completion                                         3985 non
-null   int64
 44  month_of_form_completion                                       3985 non
-null   int64
 45  year_of_form_completion                                        3985 non
-null   int64
 46  has_follow_ups_information                                     3985 non
-null   object
 47  has_drugs_information                                          3985 non
-null   object
 48  has_radiations_information                                     3985 non
-null   object
 49  project                                                        3985 non
-null   object
 50  stage_event_system_version                                     3985 non
-null   object
 51  stage_event_clinical_stage                                     1318 non
-null   object
 52  stage_event_pathologic_stage                                   3487 non
```

```
-null   object
 53  stage_event_tnm_categories                                      3985 non
-null   object
 54  stage_event_psa                                                 0 non-nu
ll      float64
 55  stage_event_gleason_grading                                     0 non-nu
ll      float64
 56  stage_event_ann_arbor                                           0 non-nu
ll      float64
 57  stage_event_serum_markers                                       0 non-nu
ll      float64
 58  stage_event_igcccg_stage                                        0 non-nu
ll      float64
 59  stage_event_masaoka_stage                                       0 non-nu
ll      float64
 60  primary_pathology_tumor_tissue_site                             3985 non
-null   object
 61  primary_pathology_esophageal_tumor_cental_location              3965 non
-null   object
 62  primary_pathology_esophageal_tumor_involvement_sites            3965 non
-null   object
 63  primary_pathology_histological_type                             3985 non
-null   object
 64  primary_pathology_columnar_metaplasia_present                   2390 non
-null   object
 65  primary_pathology_columnar_mucosa_goblet_cell_present           1811 non
-null   object
 66  primary_pathology_columnar_mucosa_dysplasia                     1750 non
-null   object
 67  primary_pathology_neoplasm_histologic_grade                     3985 non
-null   object
 68  primary_pathology_days_to_initial_pathologic_diagnosis          3985 non
-null   int64
 69  primary_pathology_age_at_initial_pathologic_diagnosis           3985 non
-null   int64
 70  primary_pathology_year_of_initial_pathologic_diagnosis          3845 non
-null   float64
 71  primary_pathology_initial_pathologic_diagnosis_method           3885 non
-null   object
 72  primary_pathology_init_pathology_dx_method_other                879 non-
null    object
 73  primary_pathology_lymph_node_metastasis_radiographic_evidence  3148 non
-null   object
 74  primary_pathology_primary_lymph_node_presentation_assessment   3665 non
-null   object
 75  primary_pathology_lymph_node_examined_count                     2985 non
-null   float64
 76  primary_pathology_number_of_lymphnodes_positive_by_he           2985 non
-null   float64
 77  primary_pathology_number_of_lymphnodes_positive_by_ihc          1452 non
-null   float64
 78  primary_pathology_planned_surgery_status                        1478 non
-null   object
 79  primary_pathology_treatment_prior_to_surgery                    1138 non
-null   object
 80  primary_pathology_residual_tumor                                3465 non
```

```
-null   object
 81  primary_pathology_karnofsky_performance_score                  1360 non
-null   float64
 82  primary_pathology_eastern_cancer_oncology_group                1357 non
-null   float64
 83  primary_pathology_radiation_therapy                            3347 non
-null   object
 84  primary_pathology_postoperative_rx_tx                          3327 non
-null   object
dtypes: float64(23), int64(7), object(55)
memory usage: 2.6+ MB
```

In [193…

```
categorical_columns = df.select_dtypes(include='object')
categorical_columns.head(10)
```

Out[193…

	patient_barcode	tissue_source_site	patient_id	bcr_patient_uuid	informed_
0	TCGA-2H-A9GF	2H	A9GF	0500F1A6-A528-43F3-B035-12D3B7C99C0F	
1	TCGA-2H-A9GG	2H	A9GG	70084008-697D-442D-8F74-C12F8F598570	
2	TCGA-2H-A9GH	2H	A9GH	606DC5B8-7625-42A6-A936-504EF25623A4	
3	TCGA-2H-A9GI	2H	A9GI	CEAF98F8-517E-457A-BF29-ACFE22893D49	
4	TCGA-2H-A9GJ	2H	A9GJ	EE47CD59-C8D8-4B1E-96DB-91C679E4106F	
5	TCGA-2H-A9GK	2H	A9GK	61DF8A4B-95F8-40AB-A252-D00C4300C290	
6	TCGA-2H-A9GL	2H	A9GL	AB2755D2-5BD9-4E2F-B255-E813AFC8D268	
7	TCGA-2H-A9GM	2H	A9GM	6584FA8F-B4F4-4844-A71E-3BFB731AD445	
8	TCGA-2H-A9GN	2H	A9GN	078DC5F1-D2DC-4408-B785-27703C7813F1	
9	TCGA-2H-A9GO	2H	A9GO	CA400EA1-3E4E-437E-A54C-446431B741DA	

10 rows × 55 columns

In [194…

```
categorical_columns.tail(10)
```

Out[194…

	patient_barcode	tissue_source_site	patient_id	bcr_patient_uuid	inform
3975	1dfe0a1e-66c5-43ba-9a7f-645fbf395058	VR	AA7I	A34C2EDA-3E24-4EB8-94CC-A5CCC819D771	
3976	4a1d4c25-3a08-49c5-8027-ae0a4ed8bd1a	X8	AAAR	CAF9B681-AF70-4A6D-A871-C45926220DE5	
3977	be9897e8-ff79-49ec-81d6-cd720c212dd8	XP	A8T6	F4CB24E9-E7FD-4245-9C9B-7E0934038446	
3978	68cb164e-f556-4e4e-bcce-7eab08793605	XP	A8T7	59DD907E-C674-46C2-BCE7-63517D5AE7A7	
3979	5ea1ef83-6efb-4974-8495-ea93592ef976	XP	A8T8	8D3CCAF0-872A-4EE3-B4B7-847180FEC3AB	
3980	677b83fe-4dbd-410e-aea8-62d68a80f652	Z6	A8JD	B997D486-8C71-4926-9DF1-D2AFDAF2785F	
3981	a4faa9ff-b9a1-4a4c-9929-bb0154030067	Z6	A8JE	1116DDAE-76B0-48D6-869C-BE65D8B09D35	
3982	6bdc4fc8-8d76-4886-bf13-e282f4b1476b	Z6	A9VB	1C2837D4-BD2C-46F7-9E22-683B82A16350	
3983	d61e44e1-06ed-4849-85d7-3b360dd03721	Z6	AAPN	2659BB79-95F9-4476-A516-F3800536422D	
3984	20459cd1-73f5-4b54-8f86-406247c575f7	ZR	A9CJ	FDCDF592-66F1-4027-962F-A64D49BE474F	

10 rows × 55 columns

In [195…

```
numerical_columns = df.select_dtypes(include='number')
numerical_columns.head(10)
```

Out[195…

	Unnamed: 0	days_to_birth	height	weight	days_to_last_followup	days_to_de
0	0	-24487	183.0	95.0	NaN	7
1	1	-24328	178.0	74.0	NaN	6
2	2	-16197	183.0	91.0	NaN	9
3	3	-25097	188.0	100.0	NaN	4
4	4	-21180	189.0	70.0	NaN	17
5	5	-16067	180.0	80.0	NaN	2
6	6	-27115	173.0	85.0	NaN	1
7	7	-19484	179.0	77.0	NaN	4
8	8	-25664	185.0	82.0	NaN	2
9	9	-21486	170.0	83.0	NaN	4

10 rows × 30 columns

In [196…

```
numerical_columns.tail(10)
```

Out[196…

	Unnamed: 0	days_to_birth	height	weight	days_to_last_followup	days_t
3975	3990	-25857	166.0	55.0	NaN	
3976	3991	-25431	187.0	105.0	309.0	
3977	3992	-19797	NaN	72.0	NaN	
3978	3993	-23337	NaN	55.0	1254.0	
3979	3994	-18077	NaN	64.0	437.0	
3980	3995	-19505	169.0	67.0	20.0	
3981	3996	-20861	165.0	65.0	0.0	
3982	3997	-19438	162.0	57.0	15.0	
3983	3998	-20850	161.0	69.0	18.0	
3984	3999	-23820	NaN	NaN	551.0	

10 rows × 30 columns

In [197…

```
categorical_columns.describe()
```

Out[197…

	patient_barcode	tissue_source_site	patient_id	bcr_patient_uuid	info
count	3985	3985	3985	3985	
unique	3985	19	185	185	
top	TCGA-2H-A9GF	L5	A88Y	FD43A93A-A26D-427B-BE04-466630F3D949	
freq	1	1150	39	39	

4 rows × 55 columns

In [198…

```
numerical_columns.describe()
```

Out[198…

	Unnamed: 0	days_to_birth	height	weight	days_to_last_follc
count	3985.000000	3985.000000	3766.000000	3945.000000	2788.00
mean	2006.742785	-23367.341782	172.128518	75.622560	306.20
std	1150.951742	4441.493885	9.080075	18.997044	506.17
min	0.000000	-32972.000000	145.000000	41.000000	-4.00
25%	1011.000000	-27075.000000	166.000000	62.000000	3.00
50%	2007.000000	-22812.000000	173.000000	72.000000	105.00
75%	3003.000000	-19925.000000	178.000000	86.000000	408.00
max	3999.000000	-10143.000000	202.000000	198.000000	3714.00

8 rows × 30 columns

In [ ]:

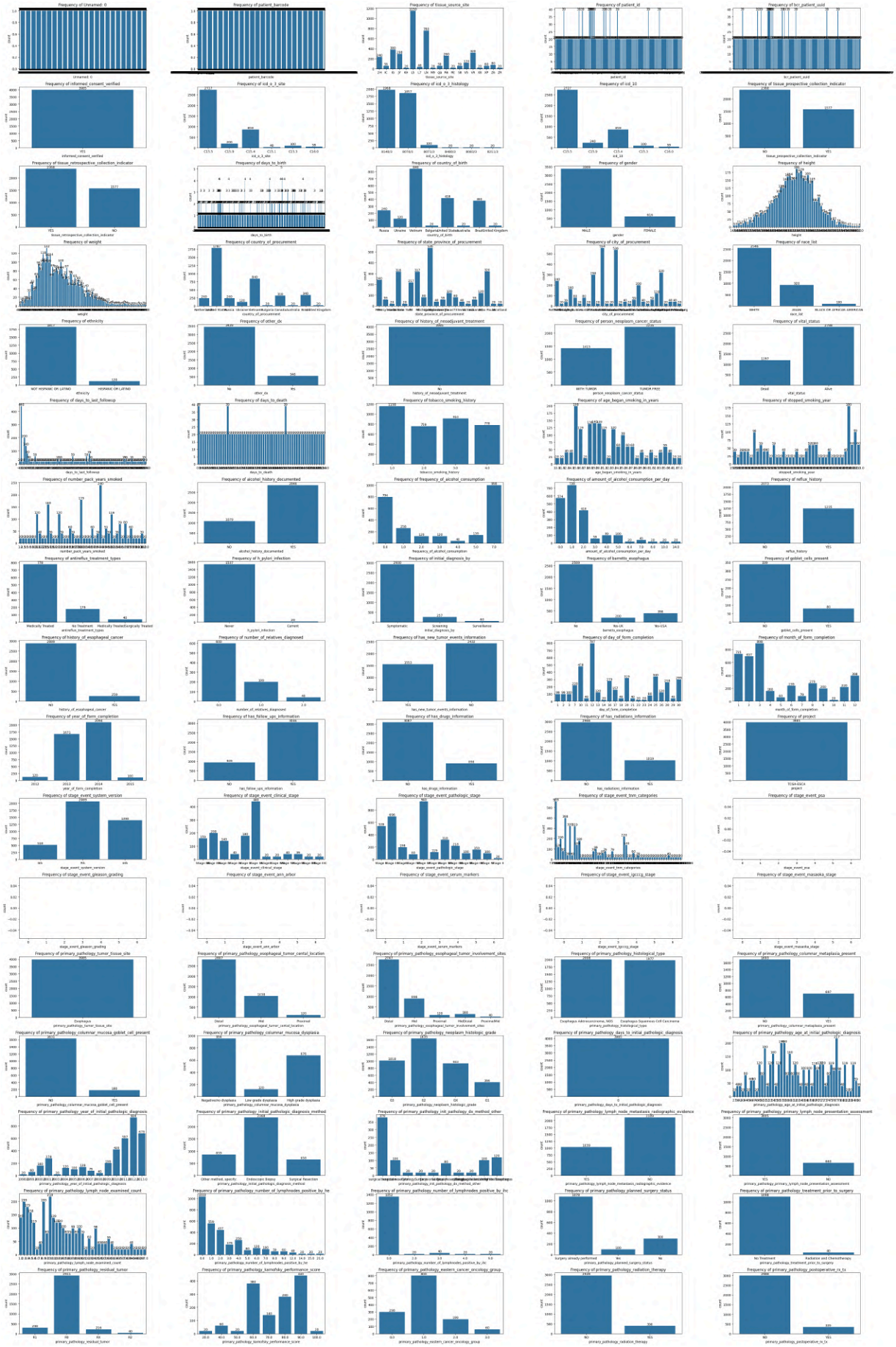
```
import matplotlib.pyplot as plt
import seaborn as sns
import warnings

warnings.filterwarnings('ignore')

fig, axes = plt.subplots(nrows=17, ncols=5, figsize=(40, 60))
axes = axes.flatten()

for i, cols in enumerate(df):
    sns.countplot(x=cols, data=df, ax=axes[i]).set_title(f'Frequency of {col
    for container in axes[i].containers:
        axes[i].bar_label(container)

plt.tight_layout()
plt.show()
```


Frequency of Unnamed: 0
Frequency of patient_barcode
Frequency of tissue_source_site
Frequency of patient_id
Frequency of bcr_patient_uuid
Frequency of informed_consent_verified
Frequency of icd_o_3_site
Frequency of icd_o_3_histology
Frequency of icd_10
Frequency of tissue_prospective_collection_indicator
Frequency of tissue_retrospective_collection_indicator
Frequency of days_to_birth
Frequency of country_of_birth
Frequency of gender
Frequency of height
Frequency of weight
Frequency of country_of_procurement
Frequency of state_province_of_procurement
Frequency of city_of_procurement
Frequency of race_list
Frequency of ethnicity
Frequency of other_dx
Frequency of history_of_neoadjuvant_treatment
Frequency of person_neoplasm_cancer_status
Frequency of vital_status
Frequency of days_to_last_followup
Frequency of days_to_death
Frequency of tobacco_smoking_history
Frequency of age_began_smoking_in_years
Frequency of stopped_smoking_year
Frequency of number_pack_years_smoked
Frequency of alcohol_history_documented
Frequency of frequency_of_alcohol_consumption
Frequency of amount_of_alcohol_consumption_per_day
Frequency of reflux_history
Frequency of antireflux_treatment_types
Frequency of h_pylori_infection
Frequency of initial_diagnosis_by
Frequency of barrett's_esophagus
Frequency of goblet_cells_present
Frequency of history_of_esophageal_cancer
Frequency of number_of_relatives_diagnosed
Frequency of has_new_tumor_events_information
Frequency of day_of_form_completion
Frequency of month_of_form_completion
Frequency of year_of_form_completion
Frequency of has_follow_ups_information
Frequency of has_drugs_information
Frequency of has_radiations_information
Frequency of project
Frequency of stage_event_system_version
Frequency of stage_event_clinical_stage
Frequency of stage_event_pathologic_stage
Frequency of stage_event_tnm_categories
Frequency of stage_event_psa
Frequency of stage_event_gleason_grading
Frequency of stage_event_ann_arbor
Frequency of stage_event_serum_markers
Frequency of stage_event_igccg_stage
Frequency of stage_event_masaoka_stage
Frequency of primary_pathology_tumor_tissue_site
Frequency of primary_pathology_esophageal_tumor_cental_location
Frequency of primary_pathology_esophageal_tumor_involvement_sites
Frequency of primary_pathology_histological_type
Frequency of primary_pathology_columnar_metaplasia_present
Frequency of primary_pathology_columnar_mucosa_goblet_cell_present
Frequency of primary_pathology_columnar_mucosa_dysplasia
Frequency of primary_pathology_neoplasm_histologic_grade
Frequency of primary_pathology_days_to_initial_pathologic_diagnosis
Frequency of primary_pathology_age_at_initial_pathologic_diagnosis
Frequency of primary_pathology_year_of_initial_pathologic_diagnosis
Frequency of primary_pathology_initial_pathologic_diagnosis_method
Frequency of primary_pathology_int_pathology_dx_method_other
Frequency of primary_pathology_lymph_node_metastasis_radiographic_evidence
Frequency of primary_pathology_primary_lymph_node_presentation_assessment
Frequency of primary_pathology_lymph_node_examined_count
Frequency of primary_pathology_number_of_lymphnodes_positive_by_he
Frequency of primary_pathology_number_of_lymphnodes_positive_by_ihc
Frequency of primary_pathology_planned_surgery_status
Frequency of primary_pathology_treatment_prior_to_surgery
Frequency of primary_pathology_residual_tumor
Frequency of primary_pathology_karnofsky_performance_score
Frequency of primary_pathology_eastern_cancer_oncology_group
Frequency of primary_pathology_radiation_therapy
Frequency of primary_pathology_postoperative_rx_tx

In [199…

```
null_percentage = (df.isna().sum() / df.shape[0]) * 100

high_null_percentage = null_percentage[null_percentage > 50]
high_null_percentage
```

Out[199…

	0
ethnicity	51.392723
days_to_death	69.962359
age_began_smoking_in_years	56.537014
stopped_smoking_year	59.648683
antireflux_treatment_types	74.981179
h_pylori_infection	60.928482
goblet_cells_present	89.485571
number_of_relatives_diagnosed	78.946048
stage_event_clinical_stage	66.925972
stage_event_psa	100.000000
stage_event_gleason_grading	100.000000
stage_event_ann_arbor	100.000000
stage_event_serum_markers	100.000000
stage_event_igcccg_stage	100.000000
stage_event_masaoka_stage	100.000000
primary_pathology_columnar_mucosa_goblet_cell_present	54.554580
primary_pathology_columnar_mucosa_dysplasia	56.085320
primary_pathology_init_pathology_dx_method_other	77.942284
primary_pathology_number_of_lymphnodes_positive_by_ihc	63.563363
primary_pathology_planned_surgery_status	62.910916
primary_pathology_treatment_prior_to_surgery	71.442911
primary_pathology_karnofsky_performance_score	65.872020
primary_pathology_eastern_cancer_oncology_group	65.947302

dtype: float64

In [200…

```
data = df.copy()
data.drop(columns=high_null_percentage.index.tolist() + ['Unnamed: 0', 'pati
data.head(10)
```

Out[200…

	tissue_source_site	patient_id	bcr_patient_uuid	informed_consent_verified
0	2H	A9GF	0500F1A6-A528-43F3-B035-12D3B7C99C0F	YES
1	2H	A9GG	70084008-697D-442D-8F74-C12F8F598570	YES
2	2H	A9GH	606DC5B8-7625-42A6-A936-504EF25623A4	YES
3	2H	A9GI	CEAF98F8-517E-457A-BF29-ACFE22893D49	YES
4	2H	A9GJ	EE47CD59-C8D8-4B1E-96DB-91C679E4106F	YES
5	2H	A9GK	61DF8A4B-95F8-40AB-A252-D00C4300C290	YES
6	2H	A9GL	AB2755D2-5BD9-4E2F-B255-E813AFC8D268	YES
7	2H	A9GM	6584FA8F-B4F4-4844-A71E-3BFB731AD445	YES
8	2H	A9GN	078DC5F1-D2DC-4408-B785-27703C7813F1	YES
9	2H	A9GO	CA400EA1-3E4E-437E-A54C-446431B741DA	YES

10 rows × 60 columns

In [201…

```
data.tail(10)
```

Out[201…

	tissue_source_site	patient_id	bcr_patient_uuid	informed_consent_verifi
3975	VR	AA7I	A34C2EDA-3E24-4EB8-94CC-A5CCC819D771	Y
3976	X8	AAAR	CAF9B681-AF70-4A6D-A871-C45926220DE5	Y
3977	XP	A8T6	F4CB24E9-E7FD-4245-9C9B-7E0934038446	Y
3978	XP	A8T7	59DD907E-C674-46C2-BCE7-63517D5AE7A7	Y
3979	XP	A8T8	8D3CCAF0-872A-4EE3-B4B7-847180FEC3AB	Y
3980	Z6	A8JD	B997D486-8C71-4926-9DF1-D2AFDAF2785F	Y
3981	Z6	A8JE	1116DDAE-76B0-48D6-869C-BE65D8B09D35	Y
3982	Z6	A9VB	1C2837D4-BD2C-46F7-9E22-683B82A16350	Y
3983	Z6	AAPN	2659BB79-95F9-4476-A516-F3800536422D	Y
3984	ZR	A9CJ	FDCDF592-66F1-4027-962F-A64D49BE474F	Y

10 rows × 60 columns

In [202…

```
data.columns
```

Out[202…

```
Index(['tissue_source_site', 'patient_id', 'bcr_patient_uuid',
       'informed_consent_verified', 'icd_o_3_site', 'icd_o_3_histology',
       'icd_10', 'tissue_prospective_collection_indicator',
       'tissue_retrospective_collection_indicator', 'days_to_birth',
       'country_of_birth', 'gender', 'height', 'weight',
       'country_of_procurement', 'state_province_of_procurement',
       'city_of_procurement', 'race_list', 'other_dx',
       'history_of_neoadjuvant_treatment', 'person_neoplasm_cancer_status',
       'vital_status', 'days_to_last_followup', 'tobacco_smoking_history',
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       'frequency_of_alcohol_consumption',
       'amount_of_alcohol_consumption_per_day', 'reflux_history',
       'initial_diagnosis_by', 'barretts_esophagus',
       'history_of_esophageal_cancer', 'has_new_tumor_events_information',
       'day_of_form_completion', 'month_of_form_completion',
       'year_of_form_completion', 'has_follow_ups_information',
       'has_drugs_information', 'has_radiations_information', 'project',
       'stage_event_system_version', 'stage_event_pathologic_stage',
       'stage_event_tnm_categories', 'primary_pathology_tumor_tissue_site',
       'primary_pathology_esophageal_tumor_cental_location',
       'primary_pathology_esophageal_tumor_involvement_sites',
       'primary_pathology_histological_type',
       'primary_pathology_columnar_metaplasia_present',
       'primary_pathology_neoplasm_histologic_grade',
       'primary_pathology_days_to_initial_pathologic_diagnosis',
       'primary_pathology_age_at_initial_pathologic_diagnosis',
       'primary_pathology_year_of_initial_pathologic_diagnosis',
       'primary_pathology_initial_pathologic_diagnosis_method',
       'primary_pathology_lymph_node_metastasis_radiographic_evidence',
       'primary_pathology_primary_lymph_node_presentation_assessment',
       'primary_pathology_lymph_node_examined_count',
       'primary_pathology_number_of_lymphnodes_positive_by_he',
       'primary_pathology_residual_tumor',
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       'primary_pathology_postoperative_rx_tx'],
      dtype='object')
```

In [203…

```python
for col in data.columns:
    print(f'\n{col}: {data[col].unique()}')
```

```
tissue_source_site: ['2H' 'IC' 'IG' 'JY' 'KH' 'L5' 'L7' 'LN' 'M9' 'Q9' 'R6'
'RE' 'S8' 'V5'
 'VR' 'X8' 'XP' 'Z6' 'ZR']

patient_id: ['A9GF' 'A9GG' 'A9GH' 'A9GI' 'A9GJ' 'A9GK' 'A9GL' 'A9GM' 'A9GN'
'A9GO'
 'A9GQ' 'A9GR' 'A6RE' 'A6RF' 'A3I8' 'A3QL' 'A3Y9' 'A3YA' 'A3YB' 'A3YC'
 'A4P3' 'A4QS' 'A4QT' 'A50L' 'A51D' 'A5B8' 'A5S3' 'A625' 'A6QS' 'A7DP'
 'A8O2' 'A97H' 'A97I' 'A6F8' 'A6FA' 'A6FB' 'A6FD' 'A6FE' 'A6FG' 'A6FH'
 'A938' 'A939' 'A93C' 'A93D' 'A93E' 'A93F' 'A6WC' 'A43C' 'A43E' 'A43H'
 'A43I' 'A43J' 'A43M' 'A4OE' 'A4OF' 'A4OG' 'A4OH' 'A4OI' 'A4OJ' 'A4OM'
 'A4ON' 'A4OO' 'A4OP' 'A4OQ' 'A4OR' 'A4OS' 'A4OT' 'A4OU' 'A4OW' 'A4OX'
 'A88S' 'A88T' 'A88V' 'A88W' 'A88Y' 'A88Z' 'A891' 'A893' 'A8NE' 'A8NF'
 'A8NG' 'A8NH' 'A8NI' 'A8NJ' 'A8NK' 'A8NL' 'A8NM' 'A8NN' 'A8NQ' 'A8NR'
 'A8NS' 'A8NT' 'A8NU' 'A8NV' 'A8NW' 'A56G' 'A6VZ' 'A49K' 'A49L' 'A49M'
 'A49N' 'A49O' 'A49P' 'A49R' 'A49S' 'A49U' 'A49V' 'A49W' 'A49X' 'A49Y'
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 'A5U5' 'A5U6' 'A5U7' 'A7HV' 'A7HW' 'A7HX' 'A7HY' 'A7HZ' 'A8HZ' 'A8I0'
 'A8I1' 'A9FO' 'A9FP' 'A9FQ' 'A9FR' 'A5M8' 'A6FU' 'A6FW' 'A6DN' 'A6DQ'
 'A6KZ' 'A6L4' 'A6L6' 'A6XG' 'A6XQ' 'A6Y0' 'A6Y2' 'A8W5' 'A8W8' 'A8WC'
 'A8WG' 'A7BO' 'A6BV' 'A6BW' 'A7RB' 'A7RC' 'A7RE' 'AASV' 'AASW' 'AASX'
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 '0B831729-8C3F-472B-9D76-50BBB4AEAB0E'
 'C305AA0C-430C-4E3F-93AC-E611B32DB30A'
 'FD62F7B4-A2DA-4ACD-8A85-8FA8F91521CB'
 '2795BADD-5C70-442D-8780-8F458539D506'
 '02D98B0A-8360-49B9-BBD6-B70C79CBD32D'
 'DF5BD25C-D70B-4126-89CB-6C838044AE3B'
 '91F9AD2E-E32E-43BB-AEF8-5845C398606A'
 '484B7B36-15DC-43A9-801D-580216A8CFCB'
 'A34C2EDA-3E24-4EB8-94CC-A5CCC819D771'
 'CAF9B681-AF70-4A6D-A871-C45926220DE5'
 'F4CB24E9-E7FD-4245-9C9B-7E0934038446'
 '59DD907E-C674-46C2-BCE7-63517D5AE7A7'
 '8D3CCAF0-872A-4EE3-B4B7-847180FEC3AB'
 'B997D486-8C71-4926-9DF1-D2AFDAF2785F'
 '1116DDAE-76B0-48D6-869C-BE65D8B09D35'
 '1C2837D4-BD2C-46F7-9E22-683B82A16350'
 '2659BB79-95F9-4476-A516-F3800536422D'
 'FDCDF592-66F1-4027-962F-A64D49BE474F']

informed_consent_verified: ['YES']

icd_o_3_site: ['C15.5' 'C15.9' 'C15.4' 'C15.1' 'C15.3' 'C16.0']

icd_o_3_histology: ['8140/3' '8070/3' '8071/3' '8480/3' '8083/3' '8211/3']

icd_10: ['C15.5' 'C15.9' 'C15.4' 'C15.3' 'C16.0']

tissue_prospective_collection_indicator: ['NO' 'YES' nan]

tissue_retrospective_collection_indicator: ['YES' 'NO' nan]

days_to_birth: [-24487 -24328 -16197 ... -20861 -19438 -23820]
```

```
country_of_birth: [nan 'Russia' 'Ukraine' 'Vietnam' 'Bulgaria' 'United State
s' 'Australia'
 'Brazil' 'United Kingdom']

gender: ['MALE' 'FEMALE']

height: [183. 178. 188. 189. 180. 173. 179. 185. 170. 168. 165. 176. 169. 18
2.
 172. 174. 162. 166. 177. 152. 197. 155. 175. 164.  nan 163. 150. 157.
 161. 158. 160. 167. 171. 151. 192. 184. 159. 187. 181. 149. 153. 186.
 147. 154. 190. 191. 156. 199. 146. 193. 200. 145. 202. 196. 148. 194.
 195. 201.]

weight: [ 95.  74.  91. 100.  70.  80.  85.  77.  82.  83.  67. 102.  48.  7
3.
  76.  66.  86.  78.  61.  63.  64.  69.  50.  58.  53.  59.  62.  90.
  65. 110.  72.  89.  52. 121.  88. 193. 127. 114. 111.  71.  84.  98.
  81.  94.  96.  60.  87.  97. 103.  57.  54.  nan  68.  56.  47.  49.
  51.  79. 106. 133.  55.  75.  46. 105. 107.  99. 117. 116.  93.  92.
 192. 132. 112. 104. 113. 101. 137.  44.  43. 118. 126. 109. 138. 123.
 195. 122. 131. 119. 197. 128. 120. 188. 130. 108.  45. 191. 115.  42.
 124. 129.  41. 125. 196. 135. 194. 198. 136. 189. 134.]

country_of_procurement: ['Netherlands' 'United States' 'Russia' 'Ukraine' 'V
ietnam' 'Bulgaria'
 'Canada' 'Australia' 'Brazil' nan 'United Kingdom']

state_province_of_procurement: ['ZH' 'Pennsylvania' nan 'Hanoi' 'Ontario' 'N
ew York' 'MI' 'Mi' 'Michigan'
 'michigan' 'Delaware' 'Georgia' 'Texas' 'TX' 'texas' 'Victoria' 'Indiana'
 'NC' 'Sao Paulo' 'az' 'Scotland']

city_of_procurement: ['Rotterdam' 'Piitsburgh' 'Pittsburgh' 'Tver' 'Lviv' 'K
iev' 'Hanoi' 'LVIV'
 nan 'Toronto' 'New York' 'Ann Arbor' 'ANn Arbor' 'Ann arbor' 'ann arbor'
 'ann Arbor' 'Newark' 'London' 'Atlanta' 'Houston' 'houston' 'Melbourne'
 'Indianapolis' 'Durham' 'Barretos' 'phoenix' 'Saint petersburg'
 'Saint Petersburg' 'Dundee']

race_list: [nan 'WHITE' 'ASIAN' 'BLACK OR AFRICAN AMERICAN']

other_dx: ['No' 'Yes']

history_of_neoadjuvant_treatment: ['No']

person_neoplasm_cancer_status: ['WITH TUMOR' 'TUMOR FREE' nan]

vital_status: ['Dead' 'Alive']

days_to_last_followup: [       nan  2.340e+02  1.890e+02  0.000e+00  1.000e+
00  8.000e+00
  3.000e+01  1.600e+01  1.100e+01  4.000e+00  3.400e+01  1.400e+01
  1.300e+01 -4.000e+00  3.714e+03  1.837e+03  1.638e+03  1.098e+03
  7.730e+02  4.710e+02  7.050e+02  7.690e+02  5.500e+02  5.350e+02
  9.600e+01  1.050e+02  2.720e+02  1.070e+02  1.120e+02  1.020e+02
```

```
  5.930e+02  2.670e+02  1.950e+02  1.240e+02  1.010e+02  2.180e+02
  9.350e+02  8.820e+02  2.110e+02  2.650e+02  7.900e+01  2.250e+02
  1.140e+02  9.200e+01  1.688e+03  1.094e+03  5.010e+02  4.120e+02
  4.020e+02  1.650e+02  4.080e+02  8.250e+02  2.450e+02  2.660e+02
  2.000e+00  5.000e+00  1.000e+01  3.000e+00  6.000e+00  3.600e+01
  5.360e+02  1.150e+02  4.470e+02  9.000e+02  1.641e+03  2.200e+01
  4.260e+02  1.460e+02  2.580e+02  2.480e+02  1.350e+02  5.090e+02
  4.740e+02  7.240e+02  1.117e+03  1.378e+03  3.660e+02  3.420e+02
  3.090e+02  1.254e+03  4.370e+02  2.000e+01  1.500e+01  1.800e+01
  5.510e+02]

tobacco_smoking_history: [nan  2.  3.  1.  4.]

number_pack_years_smoked: [   nan  40.    22.    30.    50.    37.5   20.
60.    31.    75.
  34.    15.    10.    35.    29.     6.    33.    78.   102.    45.
  54.    38.    48.     2.5   28.75  17.5   52.    58.   100.    25.
  80.    26.    24.    23.    53.     8.    11.    70.    41.    76.
   3.     5.    18.    12.25  13.5   19.     1.  ]

alcohol_history_documented: ['NO' 'YES' nan]

frequency_of_alcohol_consumption: [nan  1.  2.  5.  7.  3.  4.  0.]

amount_of_alcohol_consumption_per_day: [nan  1.  5. 14.  0.  4.  6.  2.  3.
7.  8. 10.]

reflux_history: [nan 'NO' 'YES']

initial_diagnosis_by: ['Symptomatic' nan 'Screening' 'Surveillance']

barretts_esophagus: ['No' 'Yes-UK' 'Yes-USA' nan]

history_of_esophageal_cancer: [nan 'NO' 'YES']

has_new_tumor_events_information: ['YES' 'NO']

day_of_form_completion: [25  3  1 26 14 11 28 23 21 13 18 16 20 17 12 10 29
22  7 30 24  2]

month_of_form_completion: [ 2  4  7  6  8  9  3  5 11 10 12  1]

year_of_form_completion: [2014 2012 2013 2015]

has_follow_ups_information: ['NO' 'YES']

has_drugs_information: ['NO' 'YES']

has_radiations_information: ['NO' 'YES']

project: ['TCGA-ESCA']

stage_event_system_version: ['5th' '7th' '6th']

stage_event_pathologic_stage: ['Stage III' 'Stage IIB' 'Stage I' 'Stage IVA'
'Stage IIA' 'Stage IA'
```

```
 'Stage IIIA' 'Stage IIIB' 'Stage IB' 'Stage IIIC' nan 'Stage IV'
 'Stage II']

stage_event_tnm_categories: ['T3N1M0' 'T1N1M0' 'T1N0M0' 'T3N1M1a' 'T3N0M0'
'T1N1M0T1N0M0' 'T2N0M0'
 'T4N0M0' 'T2N1M0' 'T3N2M0' 'T3N1M0T3N1M0' 'T2NXM1T1N1M0' 'T4aNXMX'
 'T3NXM0' 'T2N3M0' 'T1N0M0T1N0M0' 'T3N1MX' 'T3N0MX' 'T3N2MX' 'T3N2' 'T1N1'
 'T3N3MX' 'T1N0' 'T3N3M0' 'T1N0MX' 'T2N2MX' 'T1N0M1a' 'T1N0M1' 'T2NXM0'
 'T3N0M0T3N0M0' 'T2N0M0T2N0M0' 'T2N1M0T2N1M0' 'T3N1M1' 'TXNXM1' 'T3N1M1b'
 'T2N0MXT3N1MX' 'T2N0MX' 'T2N1MXT0N1MX' 'T4NXM1' 'T3N1M0T1N0M0' 'T3N2M1'
 'T3NXM0T3N2M0' 'T4N1M0T4N1M0' 'T2NXM0T2N0M0' 'T1N1M1T1N1M1'
 'T3N2M0T3N2M0' 'T1N1M1aT1N1M1a' 'T3NXM0T3N0M0' 'T3NXM0T3N3M0'
 'T1NXM0T1N1M0' 'T2N2M0T2N2M0' 'T3NXM0T3N3M1' 'T4N0M0T4N0M0'
 'T1N1M0T1N1M0']

primary_pathology_tumor_tissue_site: ['Esophagus']

primary_pathology_esophageal_tumor_cental_location: ['Distal' 'Mid' 'Proxima
l' nan]

primary_pathology_esophageal_tumor_involvement_sites: ['Distal' 'Mid' 'Proxi
mal' 'MidDistal' 'ProximalMid' nan]

primary_pathology_histological_type: ['Esophagus Adenocarcinoma, NOS' 'Esoph
agus Squamous Cell Carcinoma']

primary_pathology_columnar_metaplasia_present: ['NO' 'YES' nan]

primary_pathology_neoplasm_histologic_grade: ['G3' 'G2' 'GX' 'G1']

primary_pathology_days_to_initial_pathologic_diagnosis: [0]

primary_pathology_age_at_initial_pathologic_diagnosis: [67 66 44 68 57 43 74
53 70 58 80 59 69 51 54 72 61 62 48 71 56 63 60 50
 36 77 49 75 47 82 81 90 84 79 65 83 86 76 55 46 73 52 42 27 64 45]

primary_pathology_year_of_initial_pathologic_diagnosis: [2001. 1999. 1998. 2
000. 2013. 2011. 2012. 2003. 2006. 2007. 2008. 2009.
 2010. 2005. 2004.   nan]

primary_pathology_initial_pathologic_diagnosis_method: ['Other method, speci
fy:' 'Endoscopic Biopsy' 'Surgical Resection' nan]

primary_pathology_lymph_node_metastasis_radiographic_evidence: ['YES' 'NO' n
an]

primary_pathology_primary_lymph_node_presentation_assessment: ['YES' nan 'N
O']

primary_pathology_lymph_node_examined_count: [ 8. 19. 30.  5.  7. 13. 22. 1
4.  3. 38.  2. 12.  4. 15.  6. 17.  1. 10.
 nan 20. 24. 26. 35. 18. 48. 39. 43. 21. 23.  9. 16. 37. 11. 28. 62. 27.
 34. 32. 87. 25.]

primary_pathology_number_of_lymphnodes_positive_by_he: [ 7.  4.  1.  0.  3.
2.  5.  9.  6. nan  8. 14. 12. 21. 15.]
```

```
primary_pathology_residual_tumor: ['R1' 'R0' 'RX' nan 'R2']

primary_pathology_radiation_therapy: ['NO' nan 'YES']

primary_pathology_postoperative_rx_tx: ['NO' 'YES' nan]
```

In [204…

```
data.drop(columns = ['informed_consent_verified', 'history_of_neoadjuvant_tr
```

In [205…

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3985 entries, 0 to 3984
Data columns (total 55 columns):
 #   Column                                                      Non-Null
Count  Dtype
---  ------                                                      --------
------  -----
 0   tissue_source_site                                          3985 non
-null   object
 1   patient_id                                                  3985 non
-null   object
 2   bcr_patient_uuid                                            3985 non
-null   object
 3   icd_o_3_site                                                3985 non
-null   object
 4   icd_o_3_histology                                           3985 non
-null   object
 5   icd_10                                                      3985 non
-null   object
 6   tissue_prospective_collection_indicator                     3945 non
-null   object
 7   tissue_retrospective_collection_indicator                   3945 non
-null   object
 8   days_to_birth                                               3985 non
-null   int64
 9   country_of_birth                                            2058 non
-null   object
 10  gender                                                      3985 non
-null   object
 11  height                                                      3766 non
-null   float64
 12  weight                                                      3945 non
-null   float64
 13  country_of_procurement                                      3945 non
-null   object
 14  state_province_of_procurement                               2705 non
-null   object
 15  city_of_procurement                                         3125 non
-null   object
 16  race_list                                                   3566 non
-null   object
 17  other_dx                                                    3985 non
-null   object
 18  person_neoplasm_cancer_status                               3650 non
-null   object
 19  vital_status                                                3985 non
-null   object
 20  days_to_last_followup                                       2788 non
-null   float64
 21  tobacco_smoking_history                                     3605 non
-null   float64
 22  number_pack_years_smoked                                    2169 non
-null   float64
 23  alcohol_history_documented                                  3925 non
-null   object
 24  frequency_of_alcohol_consumption                            2469 non
```

```
-null   float64
 25  amount_of_alcohol_consumption_per_day                          2108 non
-null   float64
 26  reflux_history                                                 3308 non
-null   object
 27  initial_diagnosis_by                                           3247 non
-null   object
 28  barretts_esophagus                                             3167 non
-null   object
 29  history_of_esophageal_cancer                                   3148 non
-null   object
 30  has_new_tumor_events_information                               3985 non
-null   object
 31  day_of_form_completion                                         3985 non
-null   int64
 32  month_of_form_completion                                       3985 non
-null   int64
 33  year_of_form_completion                                        3985 non
-null   int64
 34  has_follow_ups_information                                     3985 non
-null   object
 35  has_drugs_information                                          3985 non
-null   object
 36  has_radiations_information                                     3985 non
-null   object
 37  stage_event_system_version                                     3985 non
-null   object
 38  stage_event_pathologic_stage                                   3487 non
-null   object
 39  stage_event_tnm_categories                                     3985 non
-null   object
 40  primary_pathology_esophageal_tumor_cental_location             3965 non
-null   object
 41  primary_pathology_esophageal_tumor_involvement_sites           3965 non
-null   object
 42  primary_pathology_histological_type                            3985 non
-null   object
 43  primary_pathology_columnar_metaplasia_present                  2390 non
-null   object
 44  primary_pathology_neoplasm_histologic_grade                    3985 non
-null   object
 45  primary_pathology_age_at_initial_pathologic_diagnosis          3985 non
-null   int64
 46  primary_pathology_year_of_initial_pathologic_diagnosis         3845 non
-null   float64
 47  primary_pathology_initial_pathologic_diagnosis_method          3885 non
-null   object
 48  primary_pathology_lymph_node_metastasis_radiographic_evidence  3148 non
-null   object
 49  primary_pathology_primary_lymph_node_presentation_assessment   3665 non
-null   object
 50  primary_pathology_lymph_node_examined_count                    2985 non
-null   float64
 51  primary_pathology_number_of_lymphnodes_positive_by_he          2985 non
-null   float64
 52  primary_pathology_residual_tumor                               3465 non
```

```
-null   object
 53  primary_pathology_radiation_therapy                          3347 non
-null   object
 54  primary_pathology_postoperative_rx_tx                        3327 non
-null   object
dtypes: float64(10), int64(5), object(40)
memory usage: 1.7+ MB
```

In [206…

```
categorical_columns = data.select_dtypes(include='object')
categorical_columns.head(10)
```

Out[206…

	tissue_source_site	patient_id	bcr_patient_uuid	icd_o_3_site	icd_o_3_histol
0	2H	A9GF	0500F1A6-A528-43F3-B035-12D3B7C99C0F	C15.5	814
1	2H	A9GG	70084008-697D-442D-8F74-C12F8F598570	C15.5	814
2	2H	A9GH	606DC5B8-7625-42A6-A936-504EF25623A4	C15.5	814
3	2H	A9GI	CEAF98F8-517E-457A-BF29-ACFE22893D49	C15.5	814
4	2H	A9GJ	EE47CD59-C8D8-4B1E-96DB-91C679E4106F	C15.5	814
5	2H	A9GK	61DF8A4B-95F8-40AB-A252-D00C4300C290	C15.5	814
6	2H	A9GL	AB2755D2-5BD9-4E2F-B255-E813AFC8D268	C15.5	814
7	2H	A9GM	6584FA8F-B4F4-4844-A71E-3BFB731AD445	C15.5	814
8	2H	A9GN	078DC5F1-D2DC-4408-B785-27703C7813F1	C15.5	814
9	2H	A9GO	CA400EA1-3E4E-437E-A54C-446431B741DA	C15.5	814

10 rows × 40 columns

In [207…

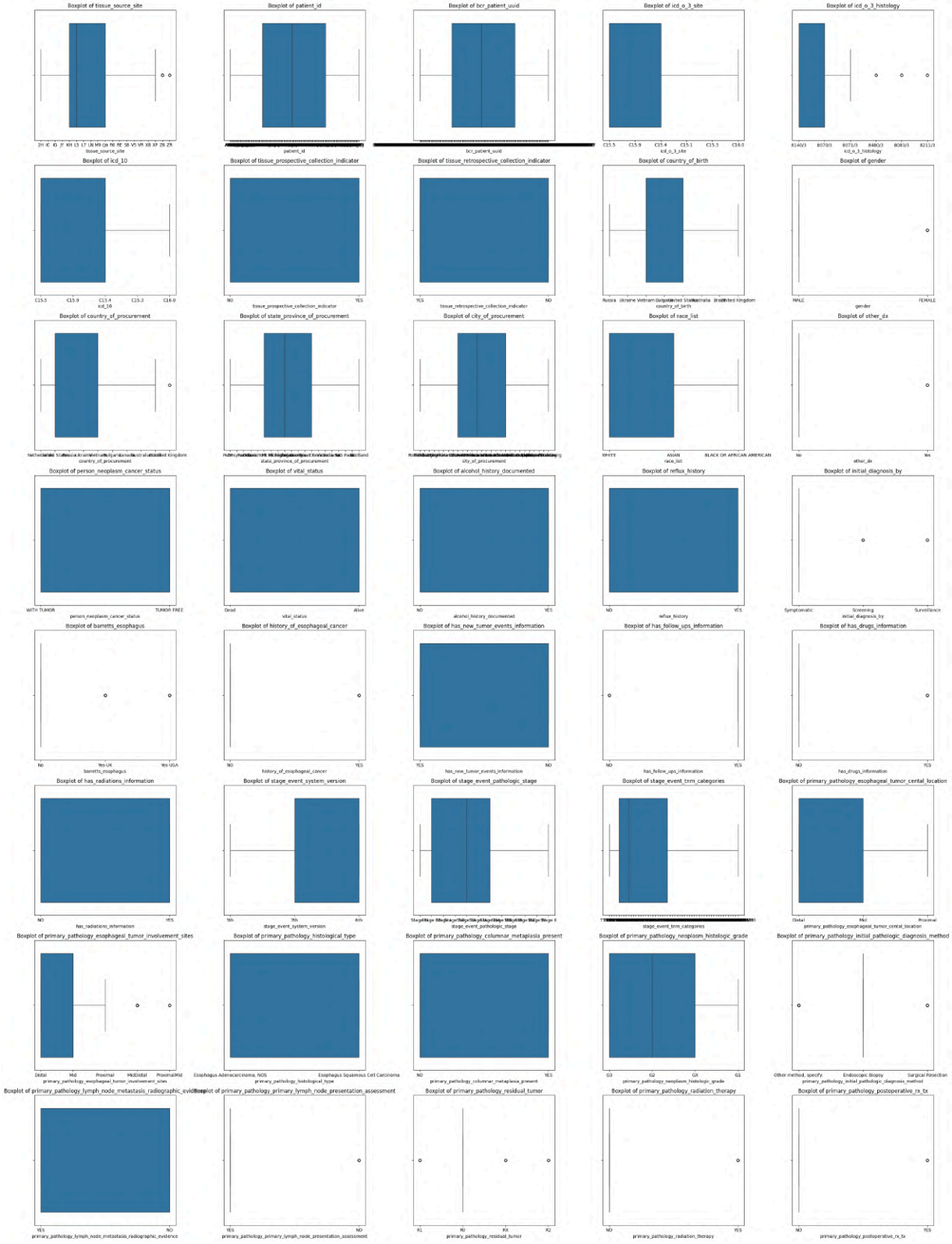
```
numerical_columns = data.select_dtypes(include='number')
numerical_columns.head(10)
```

Out[207…

	days_to_birth	height	weight	days_to_last_followup	tobacco_smoking_histo
0	-24487	183.0	95.0	NaN	N
1	-24328	178.0	74.0	NaN	N
2	-16197	183.0	91.0	NaN	N
3	-25097	188.0	100.0	NaN	N
4	-21180	189.0	70.0	NaN	N
5	-16067	180.0	80.0	NaN	N
6	-27115	173.0	85.0	NaN	N
7	-19484	179.0	77.0	NaN	N
8	-25664	185.0	82.0	NaN	N
9	-21486	170.0	83.0	NaN	N

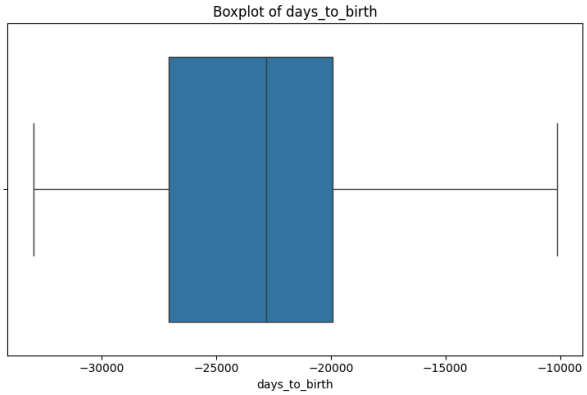
In [ ]:

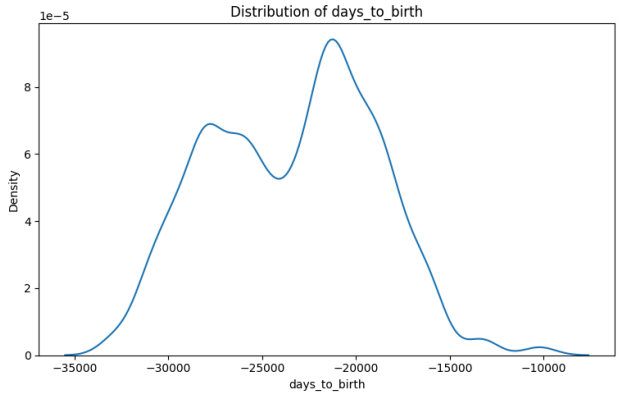
```
fig, axes = plt.subplots(nrows=8, ncols=5, figsize=(30, 40))
axes = axes.flatten()

for i, cols in enumerate(categorical_columns):
    sns.boxplot(x=cols, data=data, ax=axes[i]).set_title(f'Boxplot of {cols}

plt.tight_layout()
plt.show()
```

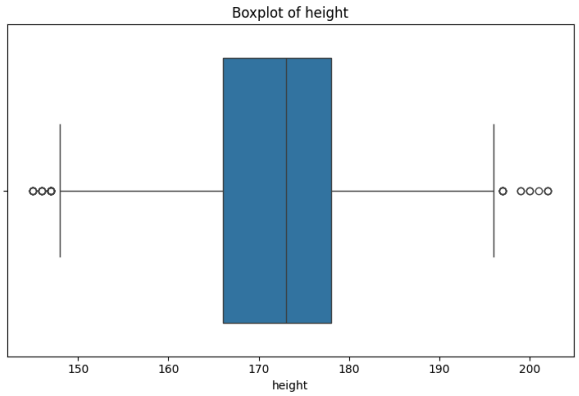


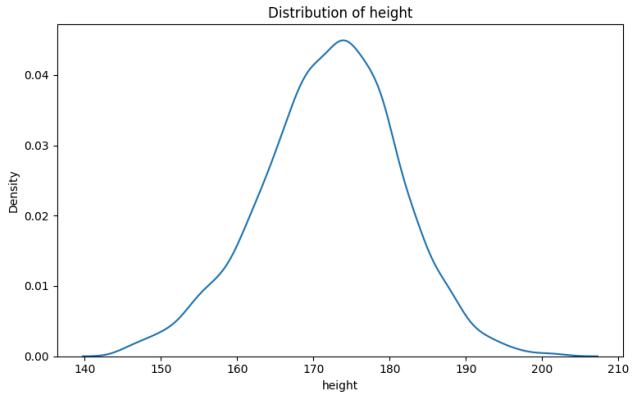
In [ ]:

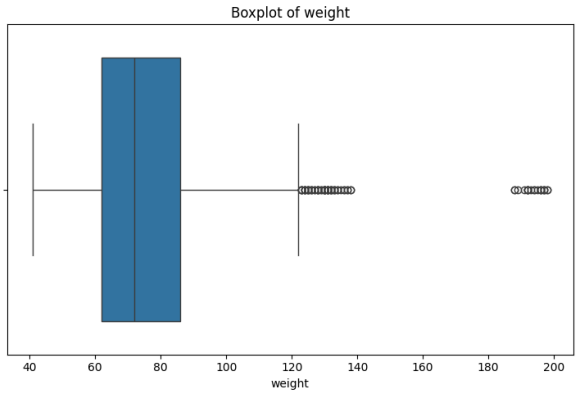
```
for _, cols in enumerate(data.select_dtypes(include='number').columns):
    fig, axes = plt.subplots(nrows=1, ncols=2, figsize=(15, 5))

    sns.boxplot(x=data[cols], ax=axes[0]).set_title(f'Boxplot of {cols}')
    sns.kdeplot(x=data[cols], ax=axes[1]).set_title(f'Distribution of {cols}

    plt.tight_layout()
    plt.show()
```

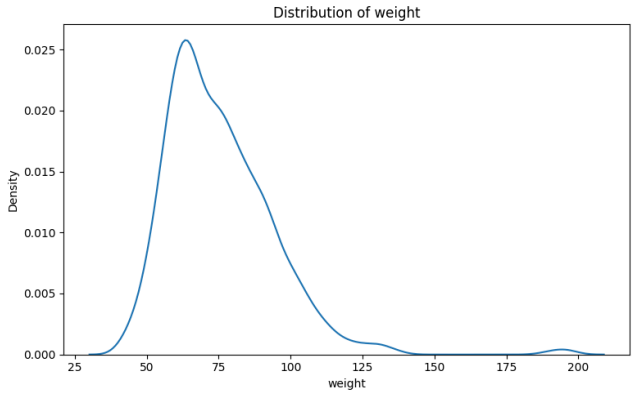

Boxplot of days_to_birth
−30000
−25000
−20000
−15000
−10000
days_to_birth

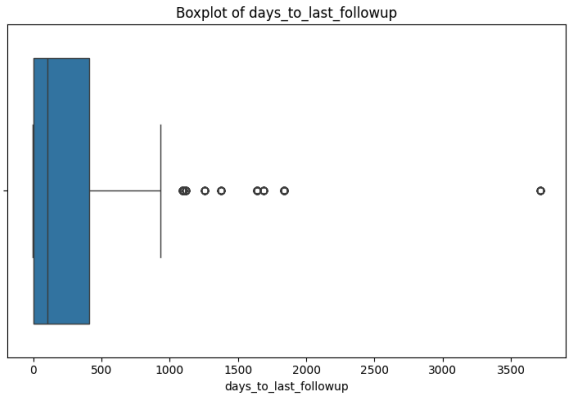

Distribution of days_to_birth
1e−5
Density
0
2
4
6
8
−35000
−30000
−25000
−20000
−15000
−10000
days_to_birth

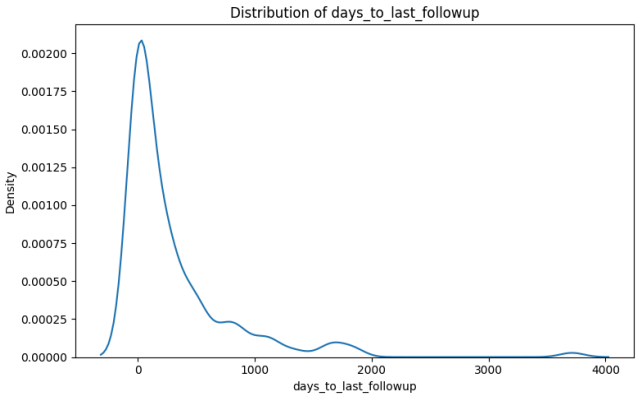

Boxplot of height
150
160
170
180
190
200
height

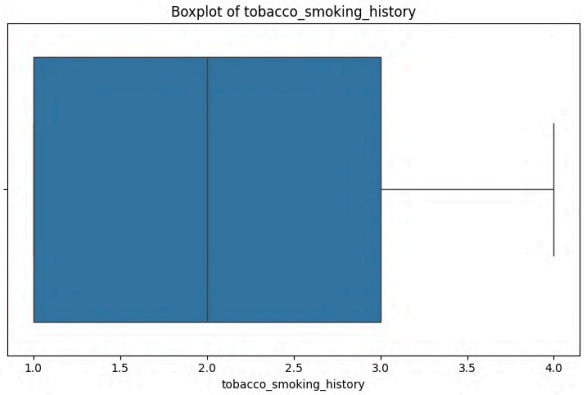

Distribution of height
Density
0.00
0.01
0.02
0.03
0.04
140
150
160
170
180
190
200
210
height

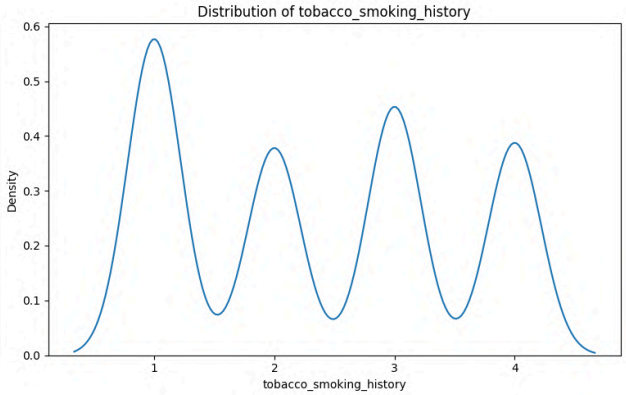

Boxplot of weight
40
60
80
100
120
140
160
180
200
weight

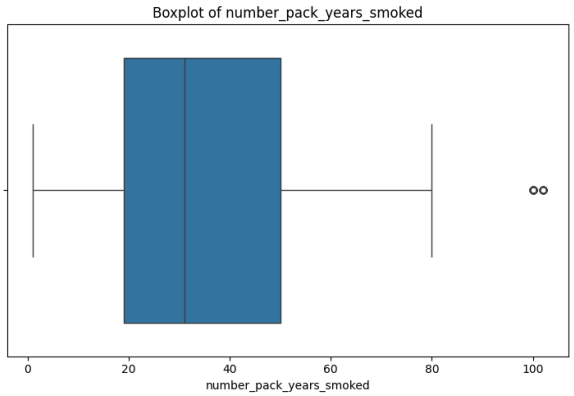

Distribution of weight
Density
0.000
0.005
0.010
0.015
0.020
0.025
25
50
75
100
125
150
175
200
weight

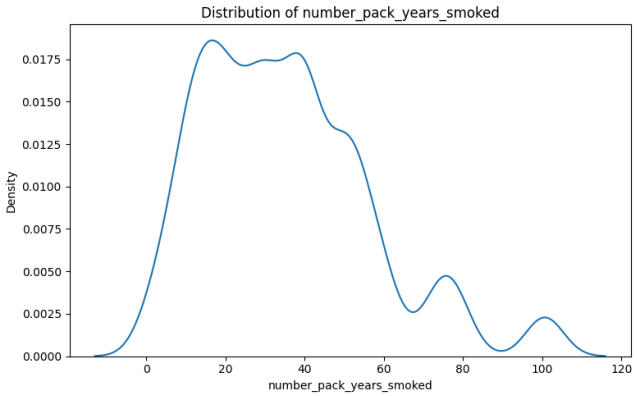

Boxplot of days_to_last_followup
0
500
1000
1500
2000
2500
3000
3500
days_to_last_followup

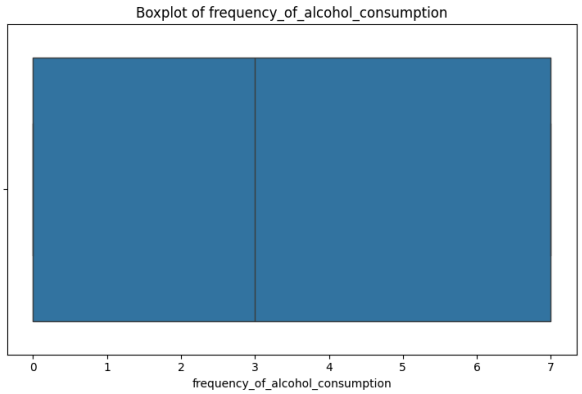

Distribution of days_to_last_followup
Density
0.00000
0.00025
0.00050
0.00075
0.00100
0.00125
0.00150
0.00175
0.00200
0
1000
2000
3000
4000
days_to_last_followup

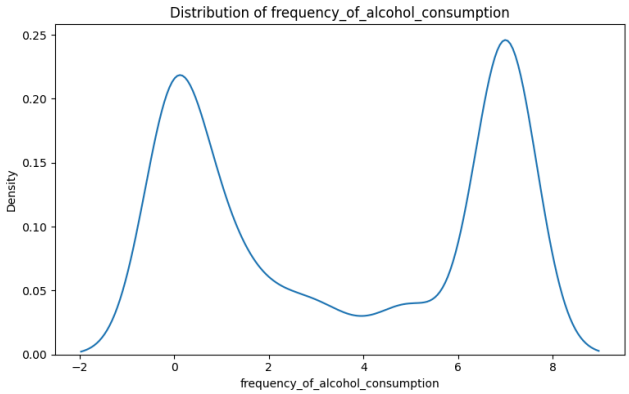

Boxplot of tobacco_smoking_history
1.0
1.5
2.0
2.5
3.0
3.5
4.0
tobacco_smoking_history

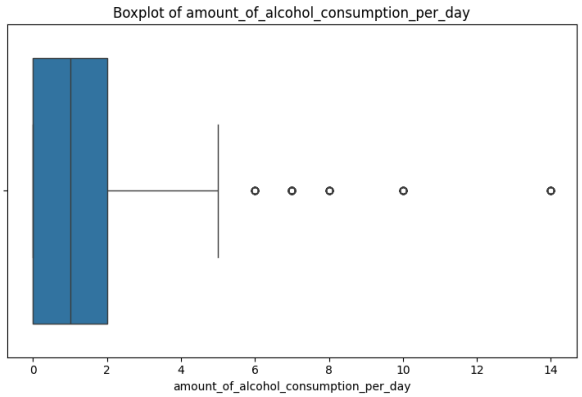

Distribution of tobacco_smoking_history
Density
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1
2
3
4
tobacco_smoking_history

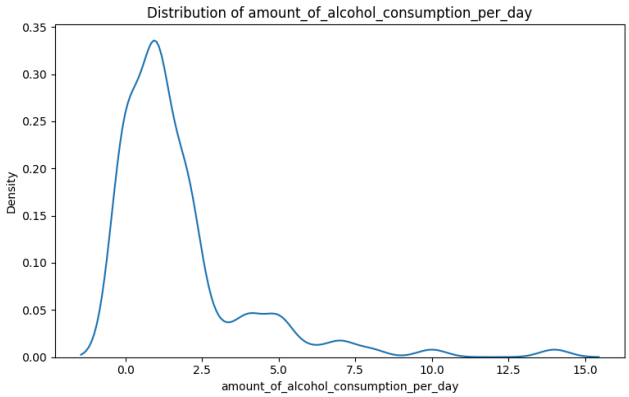

Boxplot of number_pack_years_smoked
0
20
40
60
80
100
number_pack_years_smoked

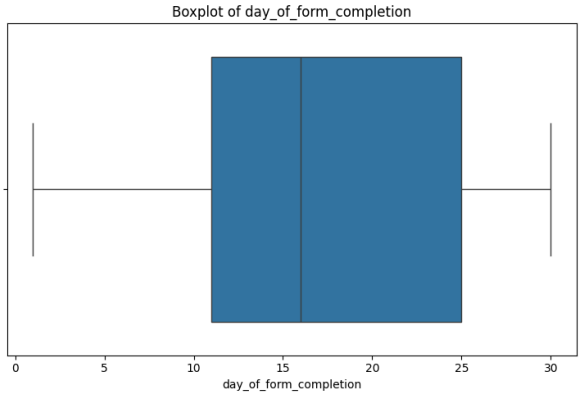

Distribution of number_pack_years_smoked
Density
0.0000
0.0025
0.0050
0.0075
0.0100
0.0125
0.0150
0.0175
0
20
40
60
80
100
120
number_pack_years_smoked

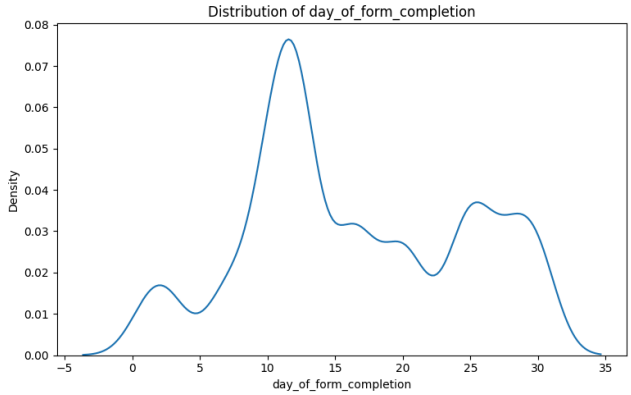

Boxplot of frequency_of_alcohol_consumption
0
1
2
3
4
5
6
7
frequency_of_alcohol_consumption

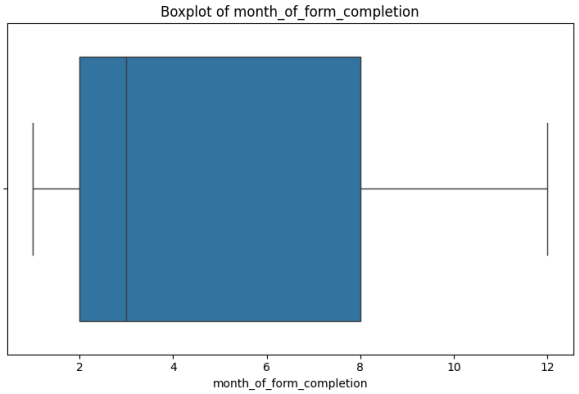

Distribution of frequency_of_alcohol_consumption
Density
0.00
0.05
0.10
0.15
0.20
0.25
−2
0
2
4
6
8
frequency_of_alcohol_consumption

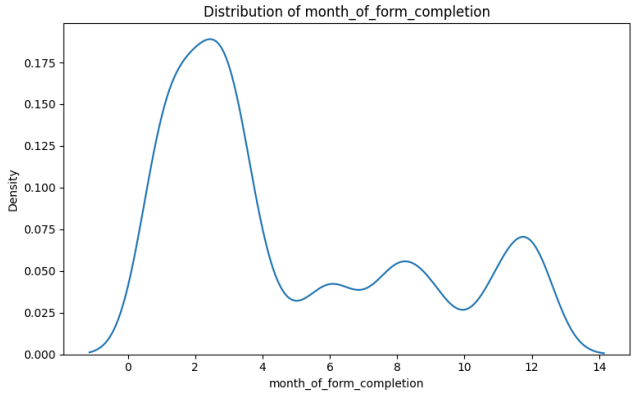

Boxplot of amount_of_alcohol_consumption_per_day
0
2
4
6
8
10
12
14
amount_of_alcohol_consumption_per_day

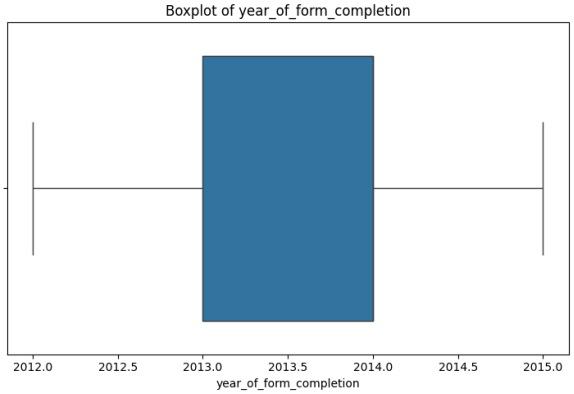

Distribution of amount_of_alcohol_consumption_per_day
Density
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.0
2.5
5.0
7.5
10.0
12.5
15.0
amount_of_alcohol_consumption_per_day

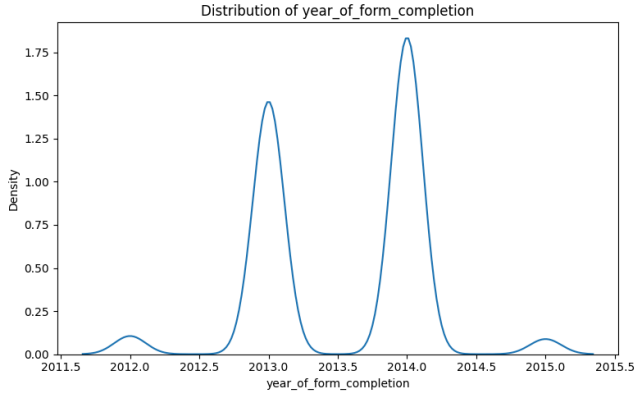

Boxplot of day_of_form_completion
0
5
10
15
20
25
30
day_of_form_completion

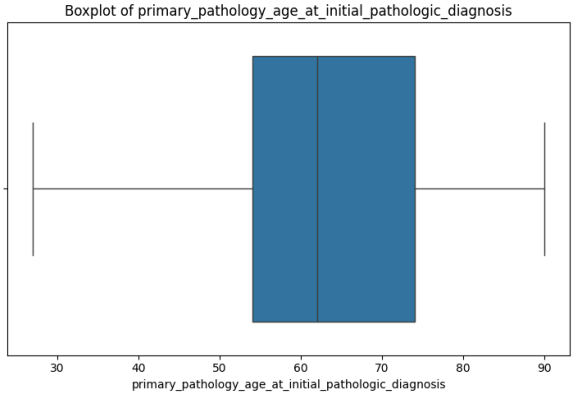

Distribution of day_of_form_completion
Density
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
−5
0
5
10
15
20
25
30
35
day_of_form_completion

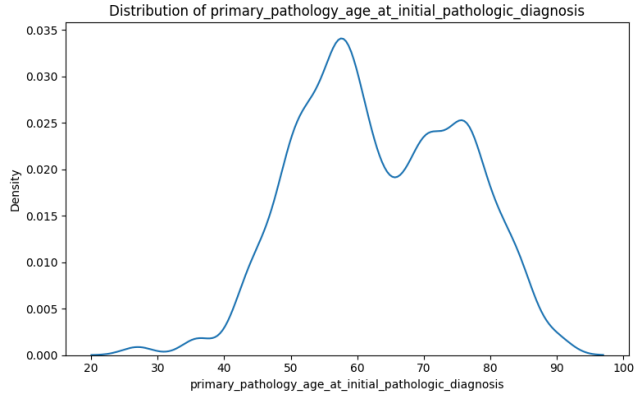

Boxplot of month_of_form_completion
2
4
6
8
10
12
month_of_form_completion

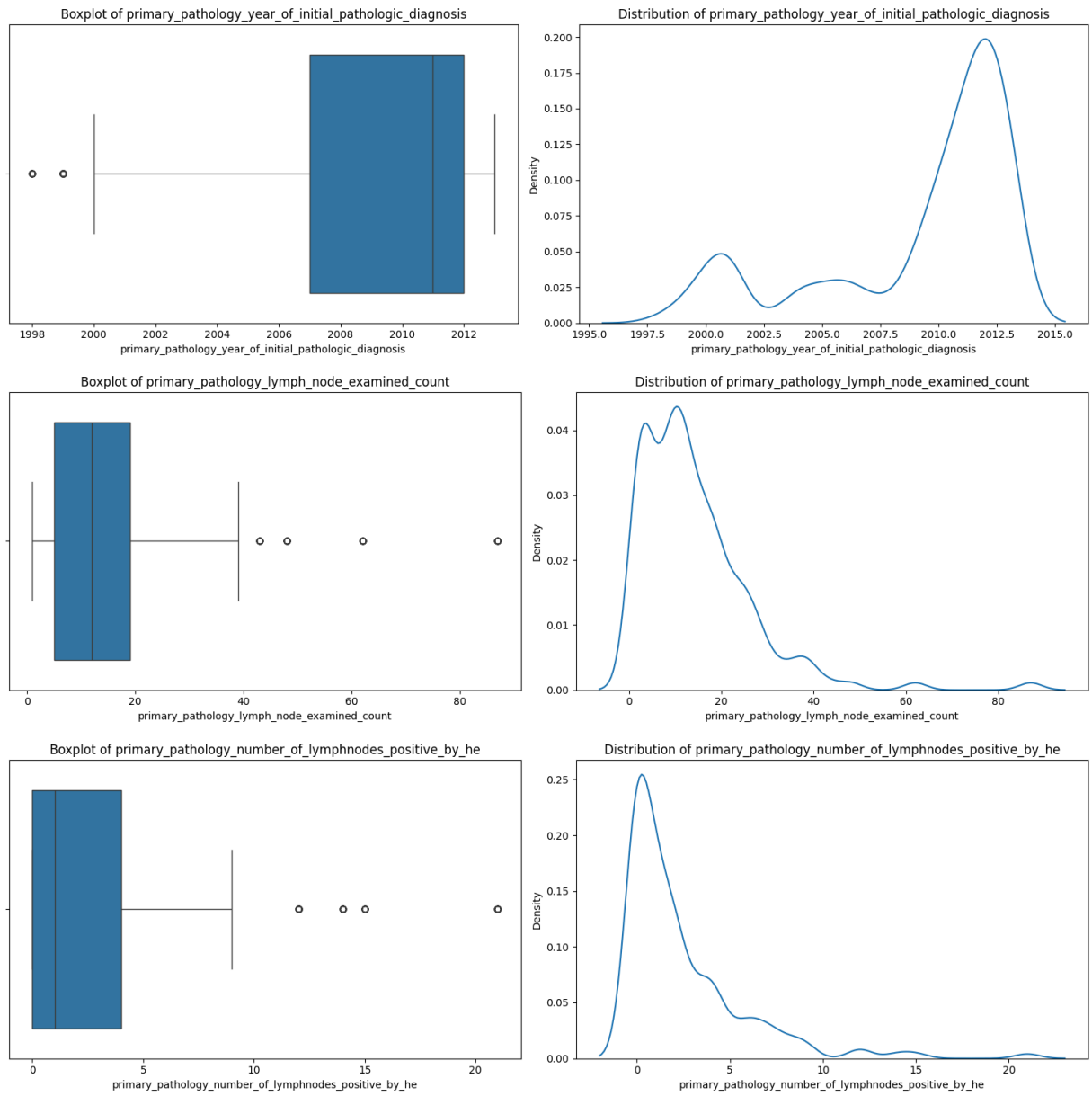

Distribution of month_of_form_completion
Density
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0
2
4
6
8
10
12
14
month_of_form_completion


Boxplot of year_of_form_completion
2012.0
2012.5
2013.0
2013.5
2014.0
2014.5
2015.0
year_of_form_completion


Distribution of year_of_form_completion
Density
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
2011.5
2012.0
2012.5
2013.0
2013.5
2014.0
2014.5
2015.0
2015.5
year_of_form_completion


Boxplot of primary_pathology_age_at_initial_pathologic_diagnosis
30
40
50
60
70
80
90
primary_pathology_age_at_initial_pathologic_diagnosis

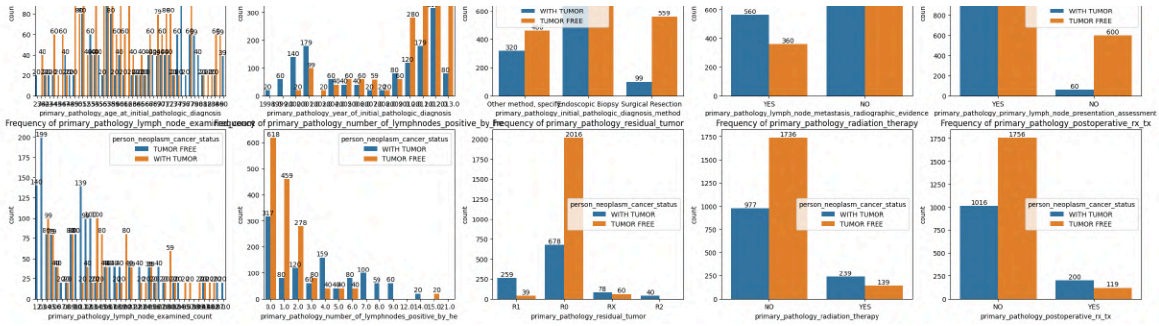

Distribution of primary_pathology_age_at_initial_pathologic_diagnosis
Density
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
20
30
40
50
60
70
80
90
100
primary_pathology_age_at_initial_pathologic_diagnosis



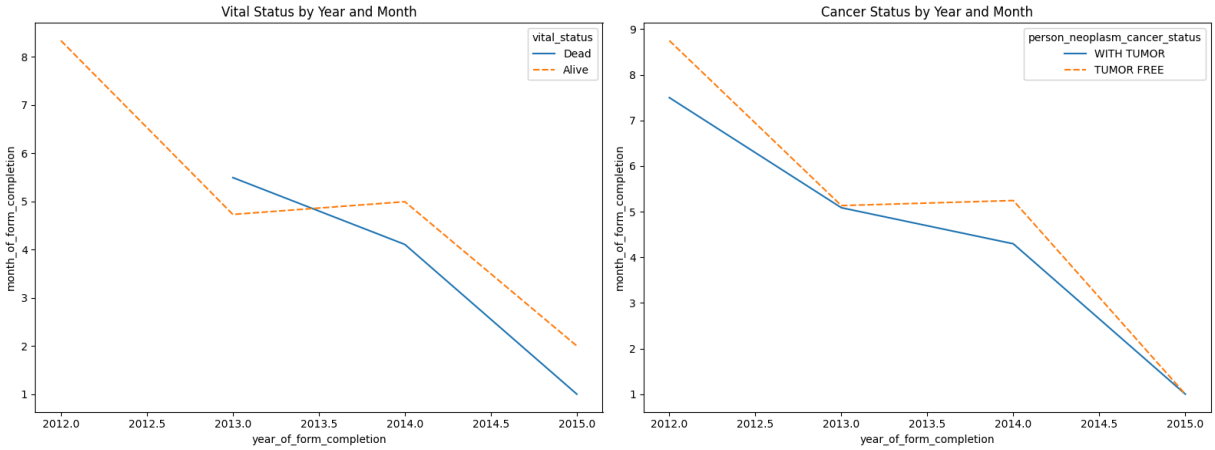
In [ ]:

```
fig, axes = plt.subplots(nrows=11, ncols=5, figsize=(30, 60))
axes = axes.flatten()

for i, cols in enumerate(data):
    sns.countplot(x=cols, data=data, hue='person_neoplasm_cancer_status', ax
    for container in axes[i].containers:
        axes[i].bar_label(container)

plt.tight_layout
plt.show()
```

Frequency of tissue_source_site
Frequency of patient_id
Frequency of bcr_patient_uuid
Frequency of icd_o_3_site
Frequency of icd_o_3_histology
Frequency of icd_10
Frequency of tissue_prospective_collection_indicator
Frequency of tissue_retrospective_collection_indicator
Frequency of days_to_birth
Frequency of country_of_birth
Frequency of gender
Frequency of height
Frequency of weight
Frequency of country_of_procurement
Frequency of state_province_of_procurement
Frequency of city_of_procurement
Frequency of race_list
Frequency of other_dx
Frequency of person_neoplasm_cancer_status
Frequency of vital_status
Frequency of days_to_last_followup
Frequency of tobacco_smoking_history
Frequency of number_pack_years_smoked
Frequency of alcohol_history_documented
Frequency of frequency_of_alcohol_consumption
Frequency of amount_of_alcohol_consumption_per_day
Frequency of reflux_history
Frequency of initial_diagnosis_by
Frequency of barretts_esophagus
Frequency of history_of_esophageal_cancer
Frequency of has_new_tumor_events_information
Frequency of day_of_form_completion
Frequency of month_of_form_completion
Frequency of year_of_form_completion
Frequency of has_follow_ups_information
Frequency of has_drugs_information
Frequency of has_radiations_information
Frequency of stage_event_system_version
Frequency of stage_event_pathologic_stage
Frequency of stage_event_tnm_categories
Frequency of primary_pathology_esophageal_tumor_cental_location
Frequency of primary_pathology_esophageal_tumor_involvement_sites
Frequency of primary_pathology_histological_type
Frequency of primary_pathology_columnar_metaplasia_present
Frequency of primary_pathology_neoplasm_histologic_grade
Frequency of primary_pathology_age_at_initial_pathologic_diagnosis
Frequency of primary_pathology_year_of_initial_pathologic_diagnosis
Frequency of primary_pathology_initial_pathologic_diagnosis_method
Frequency of primary_pathology_lymph_node_metastasis_findings_of_primary
Frequency of primary_pathology_lymph_node_presentation_assessment
person_neoplasm_cancer_status
WITH TUMOR
TUMOR FREE

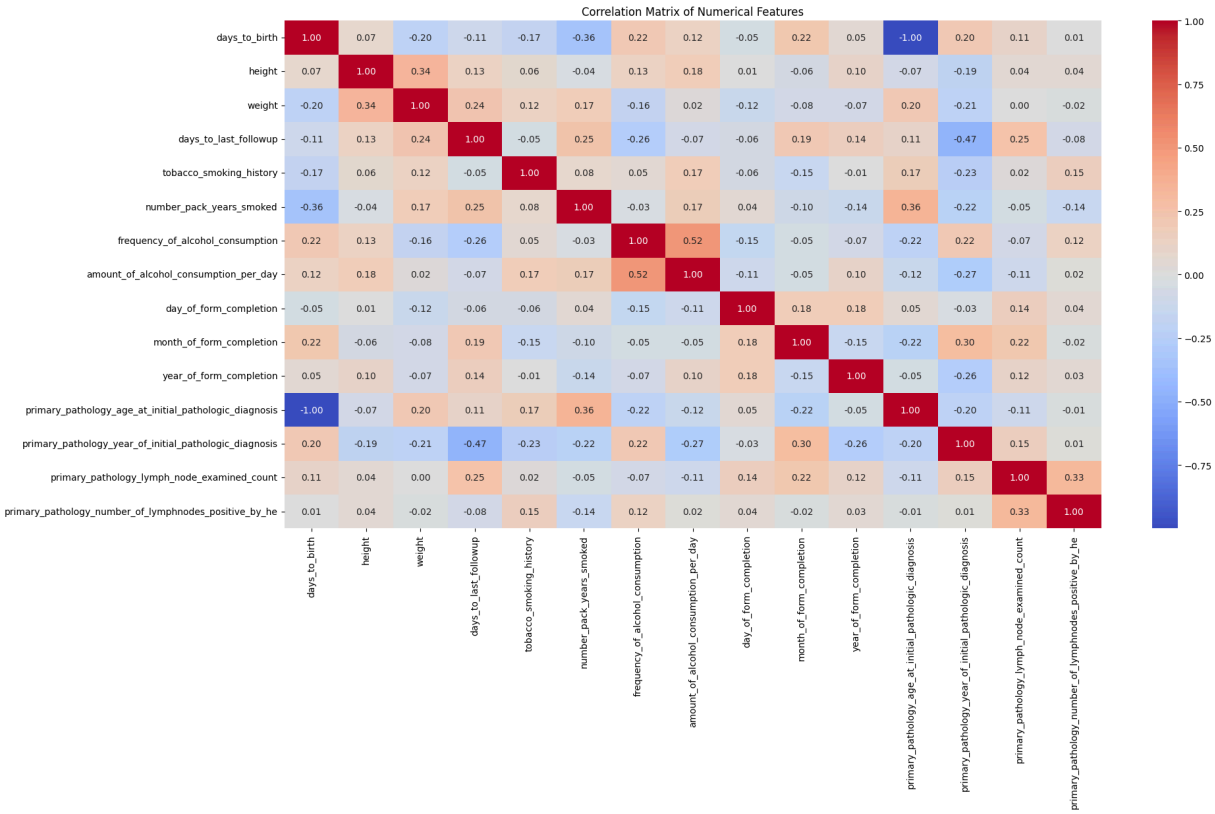


In [ ]:
```
fig, axes = plt.subplots(nrows=1, ncols=2, figsize=(16, 6))

sns.lineplot(
    x='year_of_form_completion',
    y='month_of_form_completion',
    hue='vital_status',
    style='vital_status',
    data=data,
    errorbar=None,
    ax=axes[0]
)
axes[0].set_title('Vital Status by Year and Month')

sns.lineplot(
    x='year_of_form_completion',
    y='month_of_form_completion',
    hue='person_neoplasm_cancer_status',
    style='person_neoplasm_cancer_status',
    data=data,
    errorbar=None,
    ax=axes[1]
)
axes[1].set_title('Cancer Status by Year and Month')

plt.tight_layout()
plt.show()
```



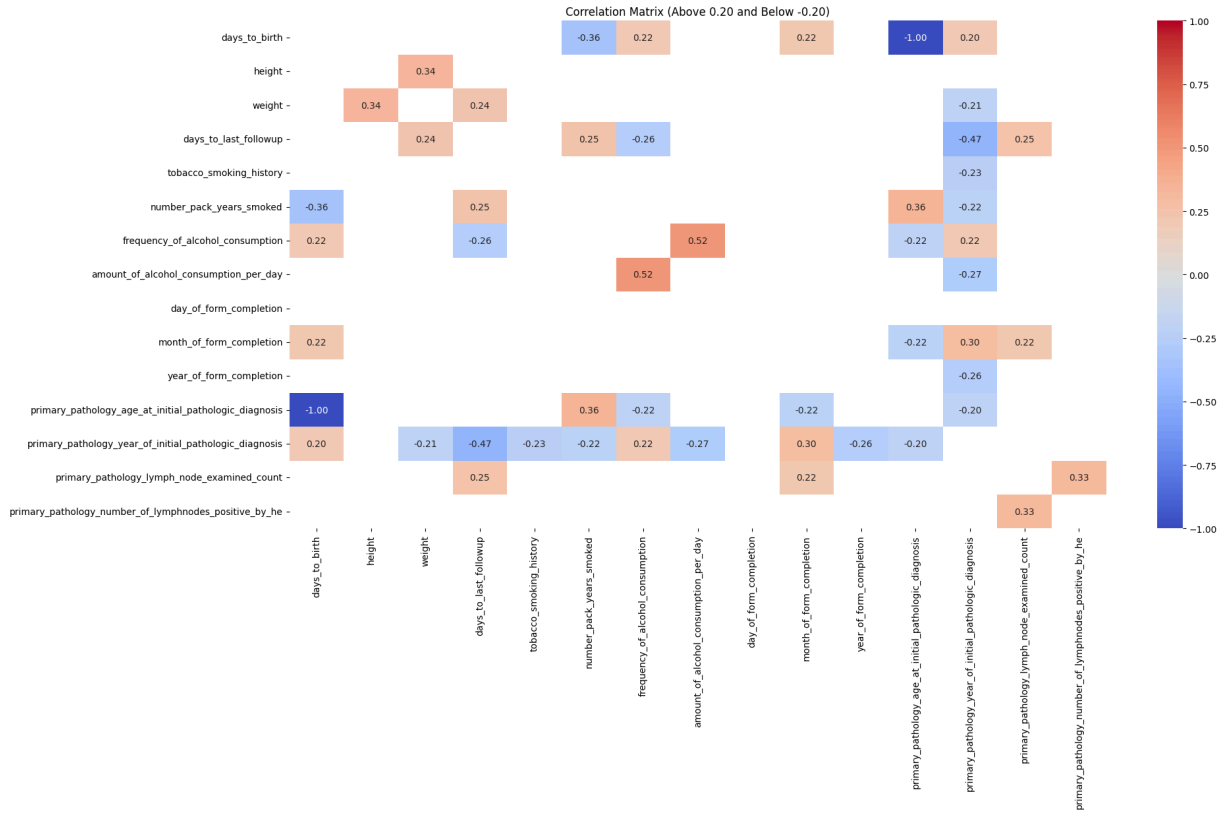
In [ ]:
```
plt.figure(figsize=(20, 10))
correlation_matrix = data[numerical_columns.columns].corr()
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', fmt=".2f")
```

```
plt.title('Correlation Matrix of Numerical Features')
plt.show()
```



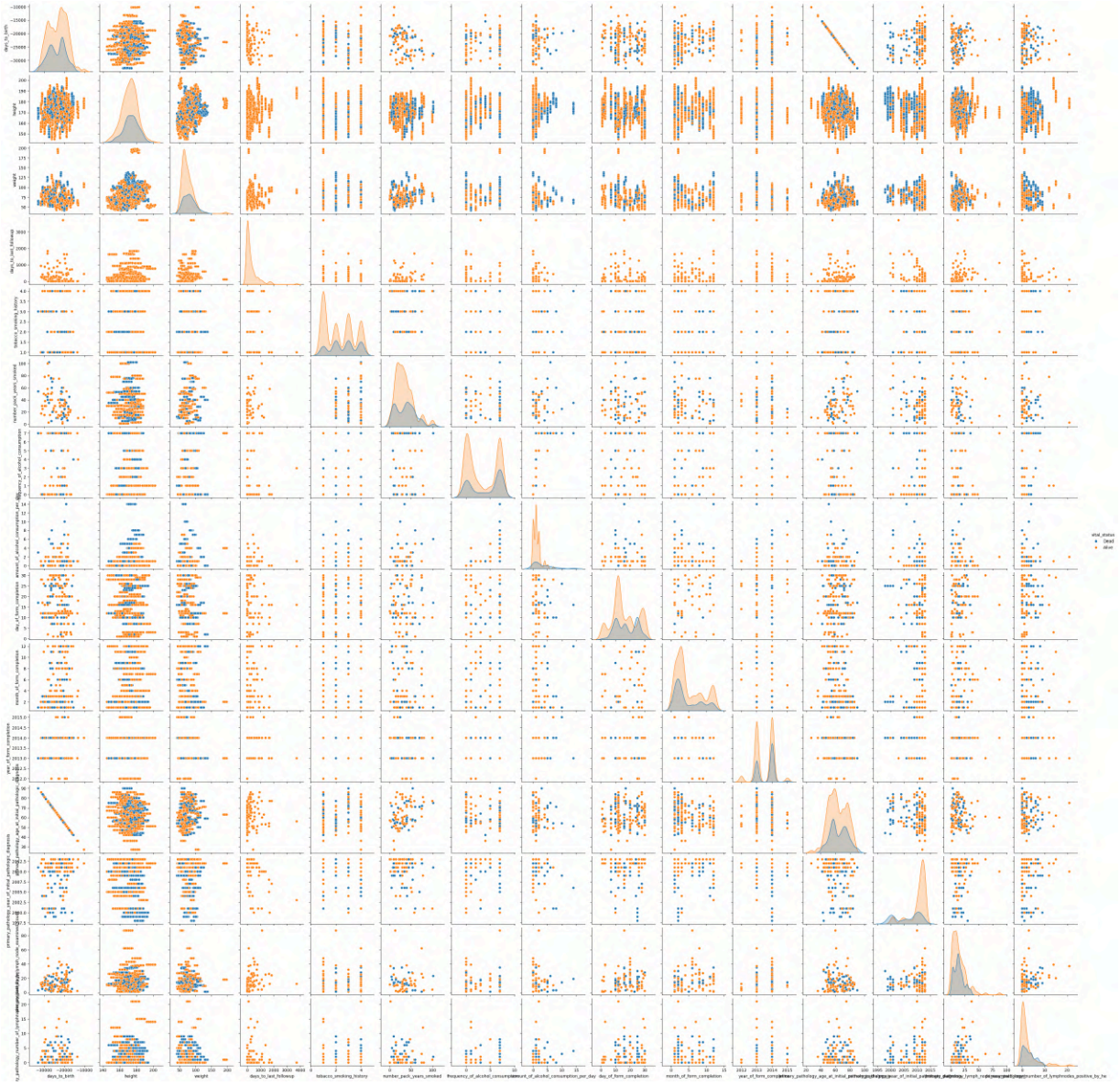
In [ ]:

```
plt.figure(figsize=(20, 10))

filtered_correlation = correlation_matrix[
    ((correlation_matrix >= 0.20) | (correlation_matrix <= -0.20)) & (correl
]

sns.heatmap(filtered_correlation, annot=True, cmap='coolwarm', fmt=".2f", vm
plt.title('Correlation Matrix (Above 0.20 and Below -0.20)')
plt.show()
```

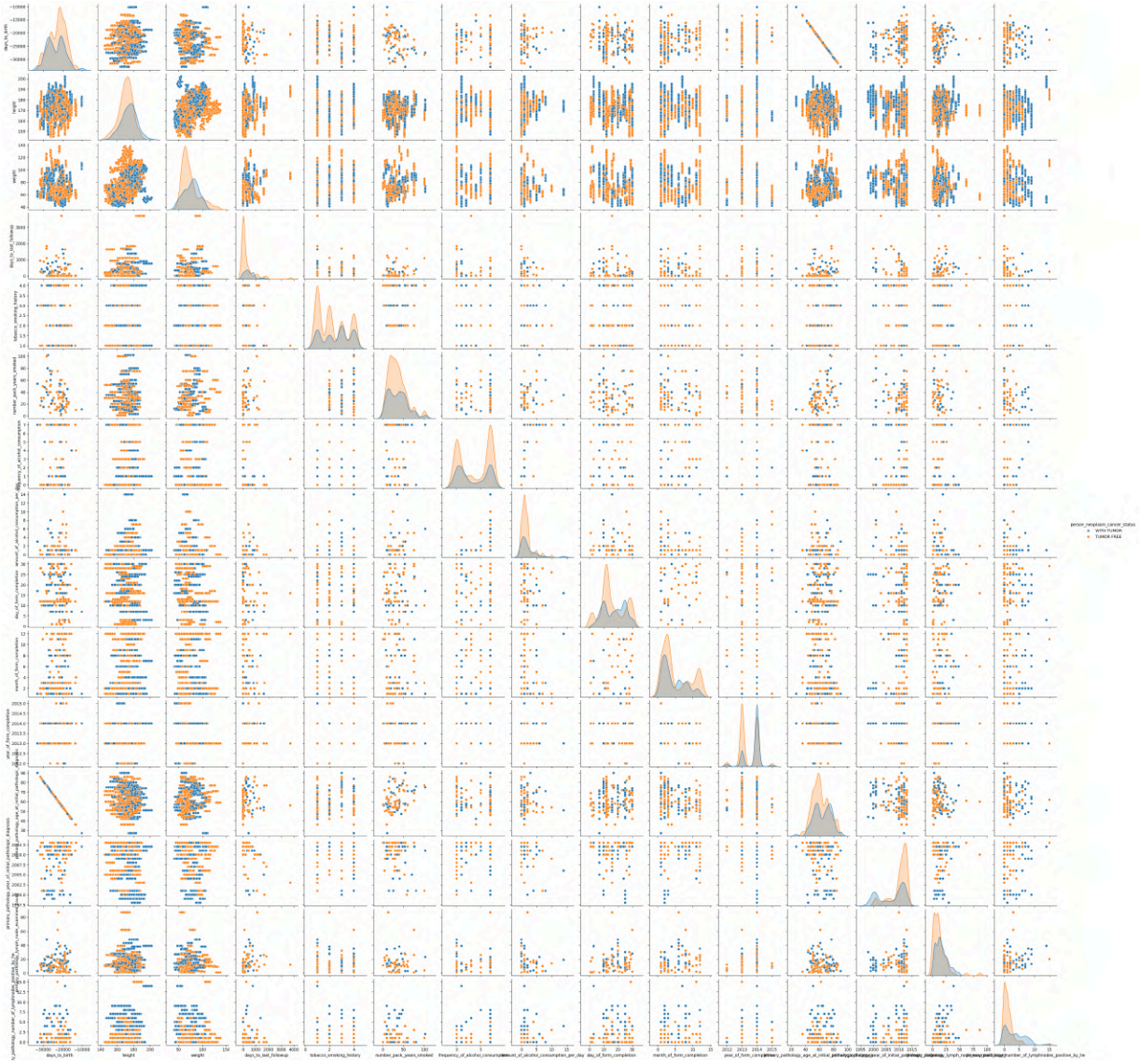


In [ ]:

```
numerical_columns_with_hue = numerical_columns.columns.tolist()
if 'vital_status' in data.columns:
    numerical_columns_with_hue.append('vital_status')

sns.pairplot(data[numerical_columns_with_hue], hue='vital_status')
plt.show()
```



In [ ]:
```
numerical_columns_with_hue = numerical_columns.columns.tolist()
if 'person_neoplasm_cancer_status' in data.columns:
    numerical_columns_with_hue.append('person_neoplasm_cancer_status')

sns.pairplot(data[numerical_columns_with_hue], hue='person_neoplasm_cancer_s
plt.show()
```



PRE-PROCESSING:

- **Feature Engineering - Label Encoder**
- **Handling Missing Values [NaN] - Traditional Method**
- **Select Features Importance - CatBoostClassifier**
- **Handling Outliers - IQR**

In [208…

```
data.isna().sum()
```

Out[208…

	0
tissue_source_site	0
patient_id	0
bcr_patient_uuid	0
icd_o_3_site	0
icd_o_3_histology	0
icd_10	0
tissue_prospective_collection_indicator	40
tissue_retrospective_collection_indicator	40
days_to_birth	0
country_of_birth	1927
gender	0
height	219
weight	40
country_of_procurement	40
state_province_of_procurement	1280
city_of_procurement	860
race_list	419
other_dx	0
person_neoplasm_cancer_status	335
vital_status	0
days_to_last_followup	1197
tobacco_smoking_history	380
number_pack_years_smoked	1816
alcohol_history_documented	60
frequency_of_alcohol_consumption	1516
amount_of_alcohol_consumption_per_day	1877
reflux_history	677
initial_diagnosis_by	738
barretts_esophagus	818
history_of_esophageal_cancer	837
has_new_tumor_events_information	0
day_of_form_completion	0
month_of_form_completion	0

	0
year_of_form_completion	0
has_follow_ups_information	0
has_drugs_information	0
has_radiations_information	0
stage_event_system_version	0
stage_event_pathologic_stage	498
stage_event_tnm_categories	0
primary_pathology_esophageal_tumor_cental_location	20
primary_pathology_esophageal_tumor_involvement_sites	20
primary_pathology_histological_type	0
primary_pathology_columnar_metaplasia_present	1595
primary_pathology_neoplasm_histologic_grade	0
primary_pathology_age_at_initial_pathologic_diagnosis	0
primary_pathology_year_of_initial_pathologic_diagnosis	140
primary_pathology_initial_pathologic_diagnosis_method	100
primary_pathology_lymph_node_metastasis_radiographic_evidence	837
primary_pathology_primary_lymph_node_presentation_assessment	320
primary_pathology_lymph_node_examined_count	1000
primary_pathology_number_of_lymphnodes_positive_by_he	1000
primary_pathology_residual_tumor	520
primary_pathology_radiation_therapy	638
primary_pathology_postoperative_rx_tx	658

dtype: int64

In [209…

```
from sklearn.preprocessing import LabelEncoder
label_encoders = {le_col: LabelEncoder() for le_col in categorical_columns}

for le_col in categorical_columns:
    non_nan_values = df[le_col].dropna()
    encoded_values = label_encoders[le_col].fit_transform(non_nan_values)
    data.loc[non_nan_values.index, le_col] = encoded_values
```

In [210…

```
data[categorical_columns.columns].head(10)
```

Out[210…

	tissue_source_site	patient_id	bcr_patient_uuid	icd_o_3_site	icd_o_3_histol
0	0	162	2	3	
1	0	163	76	3	
2	0	164	62	3	
3	0	165	153	3	
4	0	166	173	3	
5	0	167	64	3	
6	0	168	122	3	
7	0	169	67	3	
8	0	170	4	3	
9	0	171	144	3	

10 rows × 40 columns

In [211…

```
data[categorical_columns.columns].tail(10)
```

Out[211…

	tissue_source_site	patient_id	bcr_patient_uuid	icd_o_3_site	icd_o_3_his
3975	14	179	114	2	
3976	15	180	147	3	
3977	16	142	178	3	
3978	16	143	58	2	
3979	16	144	94	3	
3980	17	121	134	4	
3981	17	122	15	1	
3982	17	174	20	3	
3983	17	181	24	3	
3984	18	157	183	3	

10 rows × 40 columns

In [212…

```
for col in categorical_columns:
    data[col].fillna(data[col].mode()[0], inplace=True)

for col in numerical_columns:
    data[col].fillna(data[col].median(), inplace=True)
```

In [213…

```
data.isna().sum()
```

Out[213…

	0
tissue_source_site	0
patient_id	0
bcr_patient_uuid	0
icd_o_3_site	0
icd_o_3_histology	0
icd_10	0
tissue_prospective_collection_indicator	0
tissue_retrospective_collection_indicator	0
days_to_birth	0
country_of_birth	0
gender	0
height	0
weight	0
country_of_procurement	0
state_province_of_procurement	0
city_of_procurement	0
race_list	0
other_dx	0
person_neoplasm_cancer_status	0
vital_status	0
days_to_last_followup	0
tobacco_smoking_history	0
number_pack_years_smoked	0
alcohol_history_documented	0
frequency_of_alcohol_consumption	0
amount_of_alcohol_consumption_per_day	0
reflux_history	0
initial_diagnosis_by	0
barretts_esophagus	0
history_of_esophageal_cancer	0
has_new_tumor_events_information	0
day_of_form_completion	0
month_of_form_completion	0

	0
year_of_form_completion	0
has_follow_ups_information	0
has_drugs_information	0
has_radiations_information	0
stage_event_system_version	0
stage_event_pathologic_stage	0
stage_event_tnm_categories	0
primary_pathology_esophageal_tumor_cental_location	0
primary_pathology_esophageal_tumor_involvement_sites	0
primary_pathology_histological_type	0
primary_pathology_columnar_metaplasia_present	0
primary_pathology_neoplasm_histologic_grade	0
primary_pathology_age_at_initial_pathologic_diagnosis	0
primary_pathology_year_of_initial_pathologic_diagnosis	0
primary_pathology_initial_pathologic_diagnosis_method	0
primary_pathology_lymph_node_metastasis_radiographic_evidence	0
primary_pathology_primary_lymph_node_presentation_assessment	0
primary_pathology_lymph_node_examined_count	0
primary_pathology_number_of_lymphnodes_positive_by_he	0
primary_pathology_residual_tumor	0
primary_pathology_radiation_therapy	0
primary_pathology_postoperative_rx_tx	0

dtype: int64

In [214…

```
data.info()
```

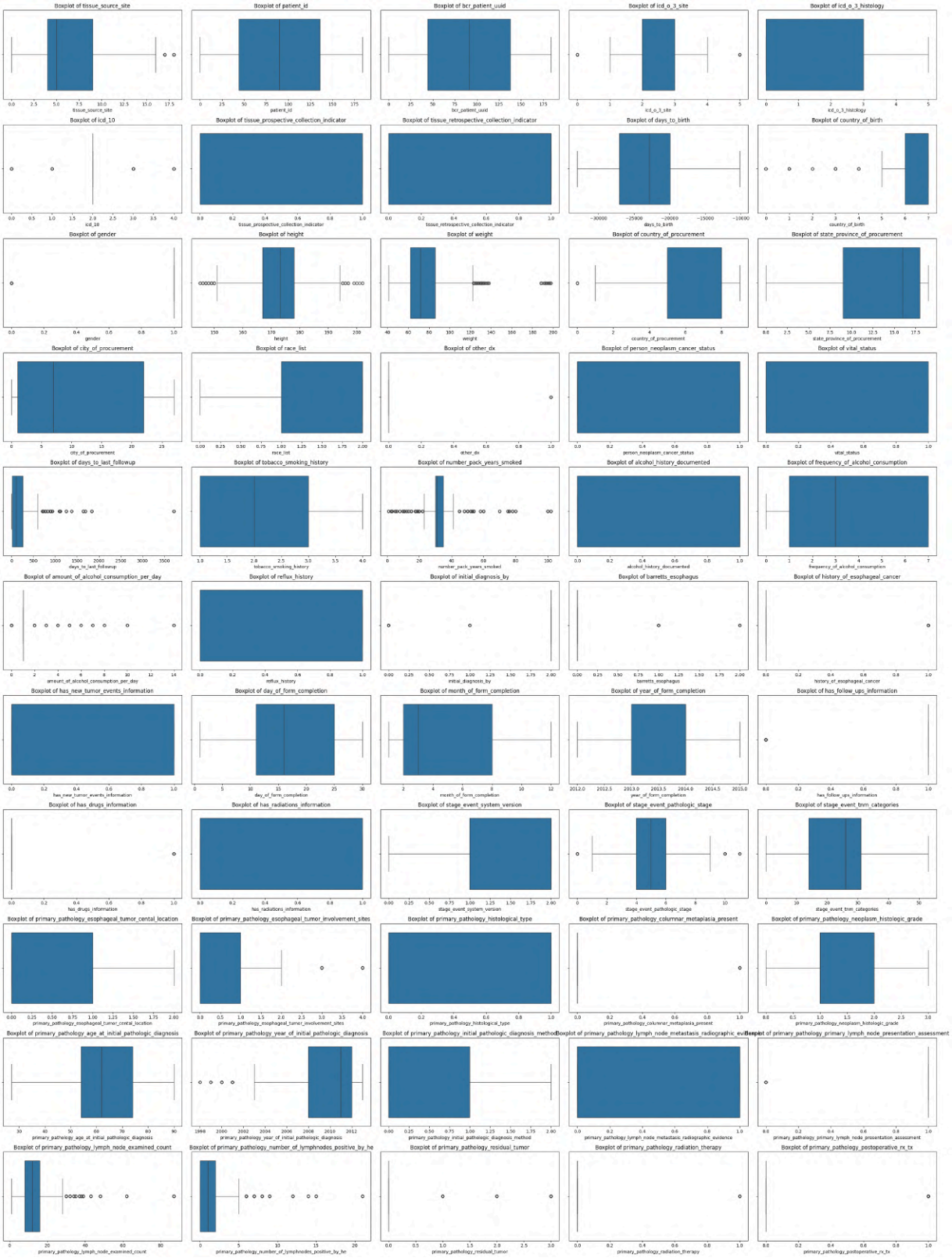
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3985 entries, 0 to 3984
Data columns (total 55 columns):
 #   Column                                                      Non-Null
Count  Dtype
---  ------                                                      --------
------  -----
 0   tissue_source_site                                          3985 non
-null   object
 1   patient_id                                                  3985 non
-null   object
 2   bcr_patient_uuid                                            3985 non
-null   object
 3   icd_o_3_site                                                3985 non
-null   object
 4   icd_o_3_histology                                           3985 non
-null   object
 5   icd_10                                                      3985 non
-null   object
 6   tissue_prospective_collection_indicator                     3985 non
-null   int64
 7   tissue_retrospective_collection_indicator                   3985 non
-null   int64
 8   days_to_birth                                               3985 non
-null   int64
 9   country_of_birth                                            3985 non
-null   int64
 10  gender                                                      3985 non
-null   object
 11  height                                                      3985 non
-null   float64
 12  weight                                                      3985 non
-null   float64
 13  country_of_procurement                                      3985 non
-null   int64
 14  state_province_of_procurement                               3985 non
-null   int64
 15  city_of_procurement                                         3985 non
-null   int64
 16  race_list                                                   3985 non
-null   int64
 17  other_dx                                                    3985 non
-null   object
 18  person_neoplasm_cancer_status                               3985 non
-null   int64
 19  vital_status                                                3985 non
-null   object
 20  days_to_last_followup                                       3985 non
-null   float64
 21  tobacco_smoking_history                                     3985 non
-null   float64
 22  number_pack_years_smoked                                    3985 non
-null   float64
 23  alcohol_history_documented                                  3985 non
-null   int64
 24  frequency_of_alcohol_consumption                            3985 non
```

```
-null   float64
 25  amount_of_alcohol_consumption_per_day                          3985 non
-null   float64
 26  reflux_history                                                 3985 non
-null   int64
 27  initial_diagnosis_by                                           3985 non
-null   int64
 28  barretts_esophagus                                             3985 non
-null   int64
 29  history_of_esophageal_cancer                                   3985 non
-null   int64
 30  has_new_tumor_events_information                               3985 non
-null   object
 31  day_of_form_completion                                         3985 non
-null   int64
 32  month_of_form_completion                                       3985 non
-null   int64
 33  year_of_form_completion                                        3985 non
-null   int64
 34  has_follow_ups_information                                     3985 non
-null   object
 35  has_drugs_information                                          3985 non
-null   object
 36  has_radiations_information                                     3985 non
-null   object
 37  stage_event_system_version                                     3985 non
-null   object
 38  stage_event_pathologic_stage                                   3985 non
-null   int64
 39  stage_event_tnm_categories                                     3985 non
-null   object
 40  primary_pathology_esophageal_tumor_cental_location             3985 non
-null   int64
 41  primary_pathology_esophageal_tumor_involvement_sites           3985 non
-null   int64
 42  primary_pathology_histological_type                            3985 non
-null   object
 43  primary_pathology_columnar_metaplasia_present                  3985 non
-null   int64
 44  primary_pathology_neoplasm_histologic_grade                    3985 non
-null   object
 45  primary_pathology_age_at_initial_pathologic_diagnosis          3985 non
-null   int64
 46  primary_pathology_year_of_initial_pathologic_diagnosis         3985 non
-null   float64
 47  primary_pathology_initial_pathologic_diagnosis_method          3985 non
-null   int64
 48  primary_pathology_lymph_node_metastasis_radiographic_evidence  3985 non
-null   int64
 49  primary_pathology_primary_lymph_node_presentation_assessment   3985 non
-null   int64
 50  primary_pathology_lymph_node_examined_count                    3985 non
-null   float64
 51  primary_pathology_number_of_lymphnodes_positive_by_he          3985 non
-null   float64
 52  primary_pathology_residual_tumor                               3985 non
```

```
-null   int64
 53  primary_pathology_radiation_therapy                          3985 non
-null   int64
 54  primary_pathology_postoperative_rx_tx                        3985 non
-null   int64
dtypes: float64(10), int64(28), object(17)
memory usage: 1.7+ MB
```

In [ ]:

```
fig, axes = plt.subplots(nrows=11, ncols=5, figsize=(30, 40))
axes = axes.flatten()

for i, cols in enumerate(data):
    sns.boxplot(x=cols, data=data, ax=axes[i]).set_title(f'Boxplot of {cols}

plt.tight_layout()
plt.show()
```



In [215…

```
data.columns
```

Out[215…

```
Index(['tissue_source_site', 'patient_id', 'bcr_patient_uuid', 'icd_o_3_site',
       'icd_o_3_histology', 'icd_10',
       'tissue_prospective_collection_indicator',
       'tissue_retrospective_collection_indicator', 'days_to_birth',
       'country_of_birth', 'gender', 'height', 'weight',
       'country_of_procurement', 'state_province_of_procurement',
       'city_of_procurement', 'race_list', 'other_dx',
       'person_neoplasm_cancer_status', 'vital_status',
       'days_to_last_followup', 'tobacco_smoking_history',
       'number_pack_years_smoked', 'alcohol_history_documented',
       'frequency_of_alcohol_consumption',
       'amount_of_alcohol_consumption_per_day', 'reflux_history',
       'initial_diagnosis_by', 'barretts_esophagus',
       'history_of_esophageal_cancer', 'has_new_tumor_events_information',
       'day_of_form_completion', 'month_of_form_completion',
       'year_of_form_completion', 'has_follow_ups_information',
       'has_drugs_information', 'has_radiations_information',
       'stage_event_system_version', 'stage_event_pathologic_stage',
       'stage_event_tnm_categories',
       'primary_pathology_esophageal_tumor_cental_location',
       'primary_pathology_esophageal_tumor_involvement_sites',
       'primary_pathology_histological_type',
       'primary_pathology_columnar_metaplasia_present',
       'primary_pathology_neoplasm_histologic_grade',
       'primary_pathology_age_at_initial_pathologic_diagnosis',
       'primary_pathology_year_of_initial_pathologic_diagnosis',
       'primary_pathology_initial_pathologic_diagnosis_method',
       'primary_pathology_lymph_node_metastasis_radiographic_evidence',
       'primary_pathology_primary_lymph_node_presentation_assessment',
       'primary_pathology_lymph_node_examined_count',
       'primary_pathology_number_of_lymphnodes_positive_by_he',
       'primary_pathology_residual_tumor',
       'primary_pathology_radiation_therapy',
       'primary_pathology_postoperative_rx_tx'],
      dtype='object')
```

In [ ]:

```
!pip install catboost
```

```
Collecting catboost
  Downloading catboost-1.2.7-cp311-cp311-manylinux2014_x86_64.whl.metadata
(1.2 kB)
Requirement already satisfied: graphviz in /usr/local/lib/python3.11/dist-pa
ckages (from catboost) (0.20.3)
Requirement already satisfied: matplotlib in /usr/local/lib/python3.11/dist-
packages (from catboost) (3.10.0)
Requirement already satisfied: numpy<2.0,>=1.16.0 in /usr/local/lib/python3.
11/dist-packages (from catboost) (1.26.4)
Requirement already satisfied: pandas>=0.24 in /usr/local/lib/python3.11/dis
t-packages (from catboost) (2.2.2)
Requirement already satisfied: scipy in /usr/local/lib/python3.11/dist-packa
ges (from catboost) (1.13.1)
Requirement already satisfied: plotly in /usr/local/lib/python3.11/dist-pack
ages (from catboost) (5.24.1)
Requirement already satisfied: six in /usr/local/lib/python3.11/dist-package
s (from catboost) (1.17.0)
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/pyth
on3.11/dist-packages (from pandas>=0.24->catboost) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dis
t-packages (from pandas>=0.24->catboost) (2024.2)
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.11/d
ist-packages (from pandas>=0.24->catboost) (2024.2)
Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.1
1/dist-packages (from matplotlib->catboost) (1.3.1)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.11/dis
t-packages (from matplotlib->catboost) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.1
1/dist-packages (from matplotlib->catboost) (4.55.3)
Requirement already satisfied: kiwisolver>=1.3.1 in /usr/local/lib/python3.1
1/dist-packages (from matplotlib->catboost) (1.4.8)
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.11/
dist-packages (from matplotlib->catboost) (24.2)
Requirement already satisfied: pillow>=8 in /usr/local/lib/python3.11/dist-p
ackages (from matplotlib->catboost) (11.1.0)
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.1
1/dist-packages (from matplotlib->catboost) (3.2.1)
Requirement already satisfied: tenacity>=6.2.0 in /usr/local/lib/python3.11/
dist-packages (from plotly->catboost) (9.0.0)
Downloading catboost-1.2.7-cp311-cp311-manylinux2014_x86_64.whl (98.7 MB)
   ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 98.7/98.7 MB 5.6 MB/s eta 0:00:0
0
Installing collected packages: catboost
Successfully installed catboost-1.2.7
```

In [ ]:

```python
from catboost import CatBoostClassifier, Pool

X = data.drop('person_neoplasm_cancer_status', axis=1)
y = data['person_neoplasm_cancer_status']

categorical_columns = X.select_dtypes(include=['object', 'category']).columr

train_pool = Pool(data=X, label=y, cat_features=categorical_columns)

model = CatBoostClassifier(
    iterations=100,  # Consider increasing for better results
```

```
    learning_rate=0.1,  # Adjust based on experimentation
    depth=6,  # Adjust based on dataset complexity
    loss_function='Logloss',  # Binary classification task
    eval_metric='F1',  # Use F1-score for imbalanced dataset
    verbose=10,  # Adjust verbosity for logs
    random_seed=42  # For reproducibility
)

model.fit(train_pool)

feature_importances = model.get_feature_importance(train_pool)

feature_importance_df = pd.DataFrame({
    'Feature': X.columns,
    'Importance': feature_importances
})

feature_importance_df = feature_importance_df.sort_values(by='Importance', a

feature_importance_df
```

```
0:      learn: 0.9871795        total: 83.9ms   remaining: 8.3s
10:     learn: 0.9943141        total: 373ms    remaining: 3.01s
20:     learn: 0.9957417        total: 587ms    remaining: 2.21s
30:     learn: 0.9957417        total: 748ms    remaining: 1.66s
40:     learn: 0.9971651        total: 952ms    remaining: 1.37s
50:     learn: 0.9978754        total: 1.28s    remaining: 1.23s
60:     learn: 0.9982301        total: 1.61s    remaining: 1.03s
70:     learn: 0.9985846        total: 1.84s    remaining: 752ms
80:     learn: 0.9992928        total: 2s       remaining: 469ms
90:     learn: 0.9992928        total: 2.3s     remaining: 228ms
99:     learn: 0.9996465        total: 2.57s    remaining: 0us
```

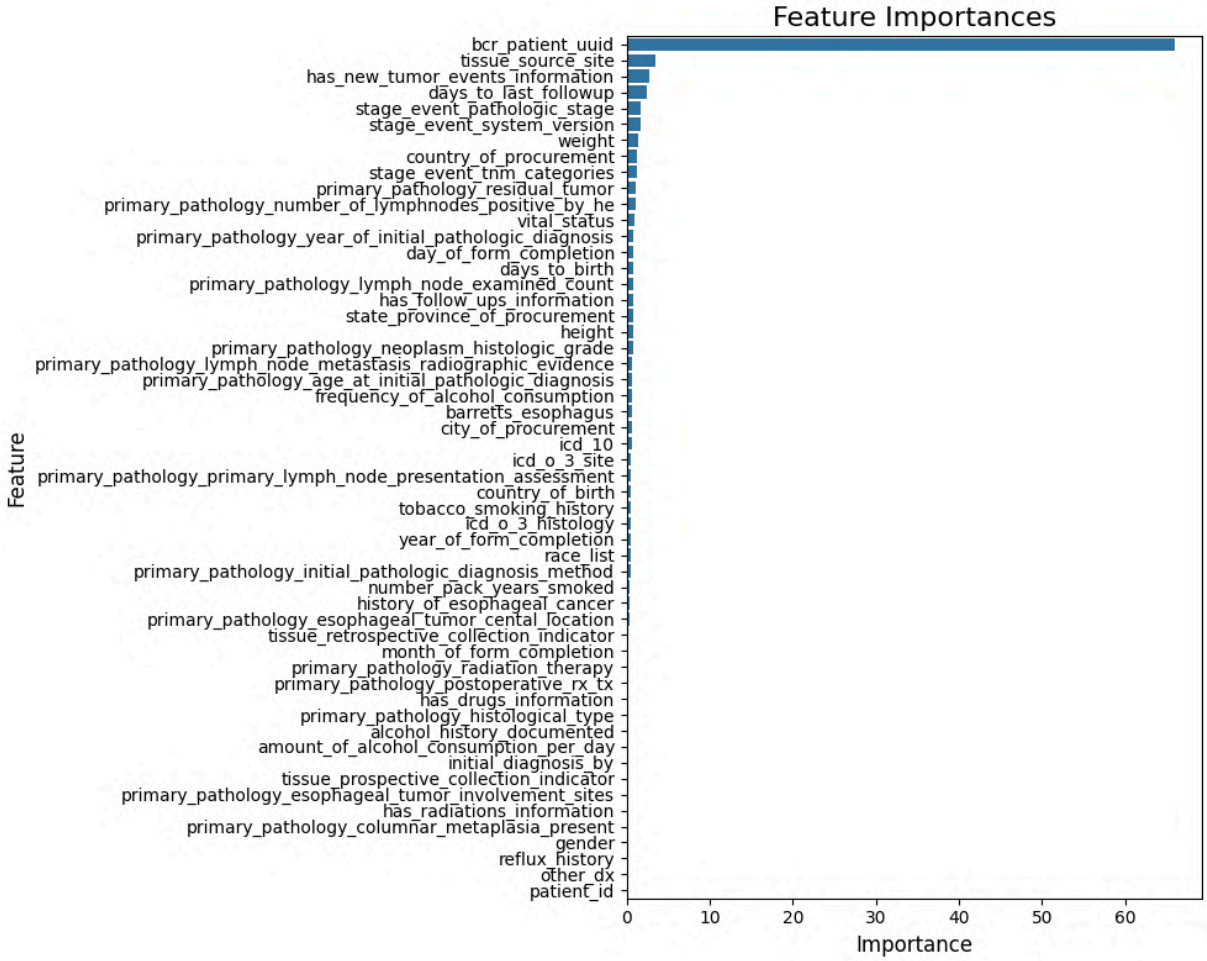
Out[ ]:

	Feature	Importance
2	bcr_patient_uuid	65.982941
0	tissue_source_site	3.385279
29	has_new_tumor_events_information	2.736647
19	days_to_last_followup	2.398561
37	stage_event_pathologic_stage	1.620180
36	stage_event_system_version	1.587486
12	weight	1.305286
13	country_of_procurement	1.150919
38	stage_event_tnm_categories	1.142736
51	primary_pathology_residual_tumor	1.125353
50	primary_pathology_number_of_lymphnodes_positiv...	1.040559
18	vital_status	0.912314
45	primary_pathology_year_of_initial_pathologic_d...	0.815366
30	day_of_form_completion	0.803016
8	days_to_birth	0.789529
49	primary_pathology_lymph_node_examined_count	0.781480
33	has_follow_ups_information	0.745686
14	state_province_of_procurement	0.703738
11	height	0.703255
43	primary_pathology_neoplasm_histologic_grade	0.699897
47	primary_pathology_lymph_node_metastasis_radiog...	0.648949
44	primary_pathology_age_at_initial_pathologic_di...	0.635215
23	frequency_of_alcohol_consumption	0.613959
27	barretts_esophagus	0.609636
15	city_of_procurement	0.590202
5	icd_10	0.558439
3	icd_o_3_site	0.523979
48	primary_pathology_primary_lymph_node_presentat...	0.497994
9	country_of_birth	0.469774
20	tobacco_smoking_history	0.452891
4	icd_o_3_histology	0.449410
32	year_of_form_completion	0.445444
16	race_list	0.418053

	Feature	Importance
46	primary_pathology_initial_pathologic_diagnosis...	0.388375
21	number_pack_years_smoked	0.362561
28	history_of_esophageal_cancer	0.300377
39	primary_pathology_esophageal_tumor_cental_loca...	0.273100
7	tissue_retrospective_collection_indicator	0.227110
31	month_of_form_completion	0.194934
52	primary_pathology_radiation_therapy	0.190047
53	primary_pathology_postoperative_rx_tx	0.169000
34	has_drugs_information	0.136246
41	primary_pathology_histological_type	0.105020
22	alcohol_history_documented	0.078097
24	amount_of_alcohol_consumption_per_day	0.056315
26	initial_diagnosis_by	0.055316
6	tissue_prospective_collection_indicator	0.046950
40	primary_pathology_esophageal_tumor_involvement...	0.041845
35	has_radiations_information	0.030537
42	primary_pathology_columnar_metaplasia_present	0.000000
10	gender	0.000000
25	reflux_history	0.000000
17	other_dx	0.000000
1	patient_id	0.000000

In [ ]:
```
plt.figure(figsize=(10, 8))
sns.barplot(x='Importance', y='Feature', data=feature_importance_df)

plt.title('Feature Importances', fontsize=16)
plt.xlabel('Importance', fontsize=12)
plt.ylabel('Feature', fontsize=12)
plt.tight_layout()
plt.show()
```



In [ ]:
```
feature_importance_df.shape
```

Out[ ]: (54, 2)

In [ ]:
```
feature_importance_df.head(20)
```

Out[ ]:

	Feature	Importance
2	bcr_patient_uuid	65.982941
0	tissue_source_site	3.385279
29	has_new_tumor_events_information	2.736647
19	days_to_last_followup	2.398561
37	stage_event_pathologic_stage	1.620180
36	stage_event_system_version	1.587486
12	weight	1.305286
13	country_of_procurement	1.150919
38	stage_event_tnm_categories	1.142736
51	primary_pathology_residual_tumor	1.125353
50	primary_pathology_number_of_lymphnodes_positiv...	1.040559
18	vital_status	0.912314
45	primary_pathology_year_of_initial_pathologic_d...	0.815366
30	day_of_form_completion	0.803016
8	days_to_birth	0.789529
49	primary_pathology_lymph_node_examined_count	0.781480
33	has_follow_ups_information	0.745686
14	state_province_of_procurement	0.703738
11	height	0.703255
43	primary_pathology_neoplasm_histologic_grade	0.699897

In [ ]:

```
top_20_features = feature_importance_df.head(20)

top_20_feature_names = top_20_features['Feature'].tolist()

print("Top 20 Feature Names:\n")
top_20_feature_names
```

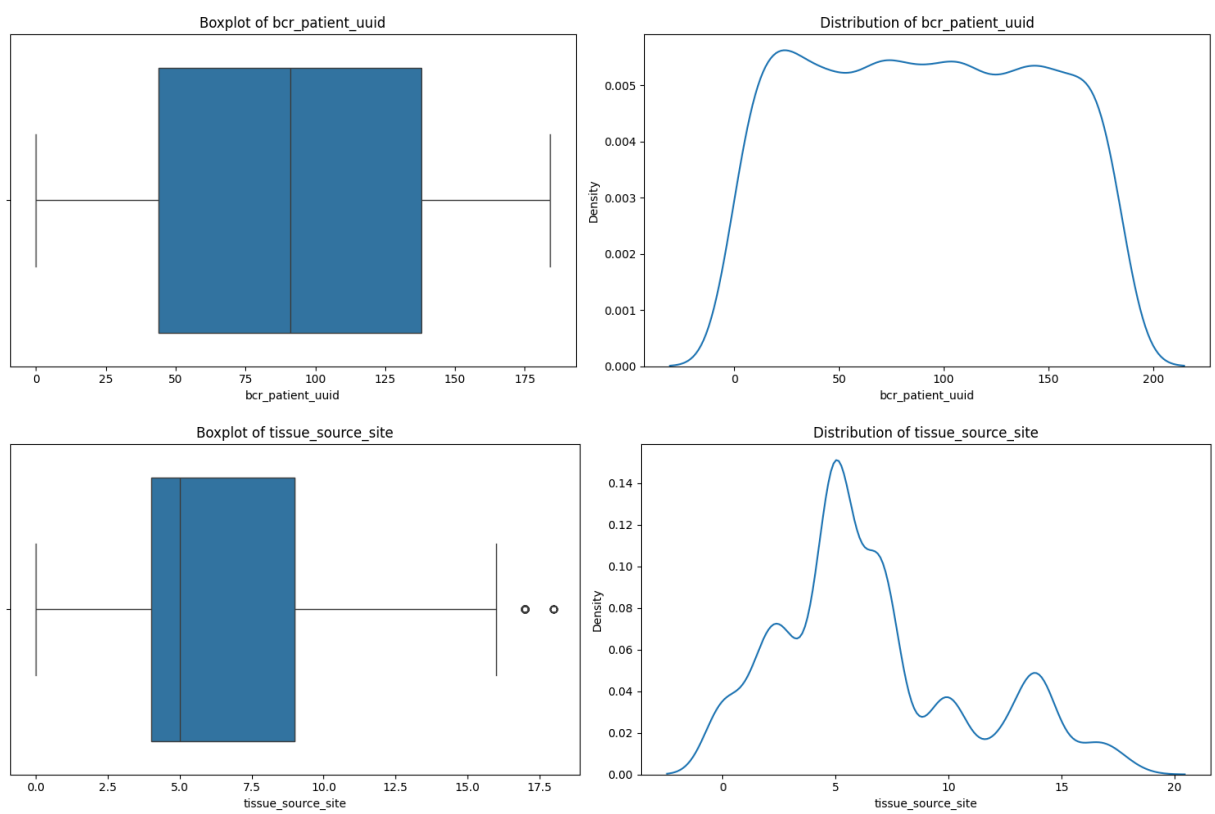
```
Top 20 Feature Names:
```

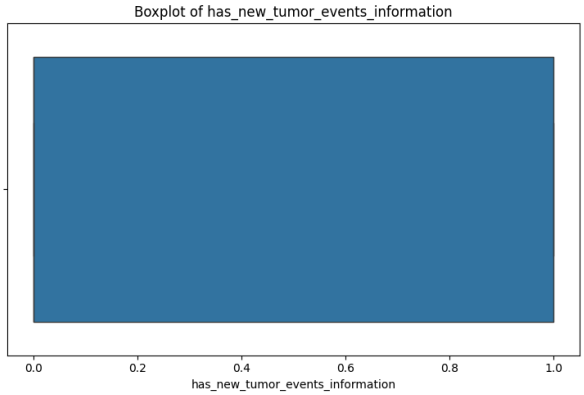
Out[ ]:
```
['bcr_patient_uuid',
 'tissue_source_site',
 'has_new_tumor_events_information',
 'days_to_last_followup',
 'stage_event_pathologic_stage',
 'stage_event_system_version',
 'weight',
 'country_of_procurement',
 'stage_event_tnm_categories',
 'primary_pathology_residual_tumor',
 'primary_pathology_number_of_lymphnodes_positive_by_he',
 'vital_status',
 'primary_pathology_year_of_initial_pathologic_diagnosis',
 'day_of_form_completion',
 'days_to_birth',
 'primary_pathology_lymph_node_examined_count',
 'has_follow_ups_information',
 'state_province_of_procurement',
 'height',
 'primary_pathology_neoplasm_histologic_grade']
```

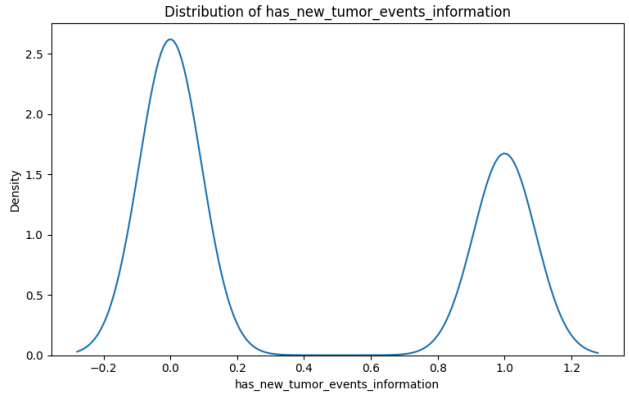
In [ ]:
```
for _, cols in enumerate(top_20_feature_names):
    fig, axes = plt.subplots(nrows=1, ncols=2, figsize=(15, 5))

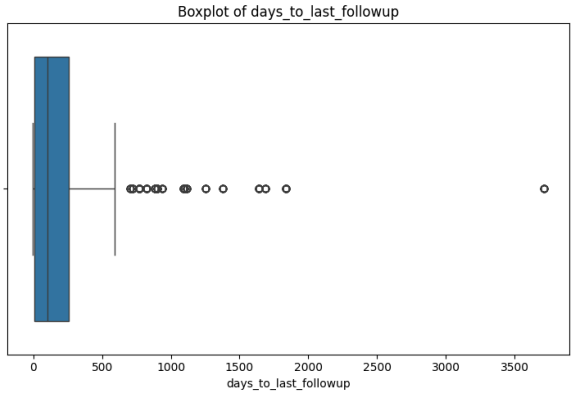
    sns.boxplot(x=data[cols], ax=axes[0]).set_title(f'Boxplot of {cols}')
    sns.kdeplot(x=data[cols], ax=axes[1]).set_title(f'Distribution of {cols}

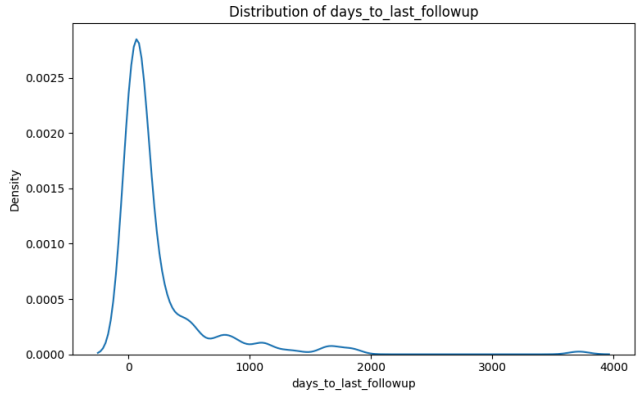
    plt.tight_layout()
    plt.show()
```

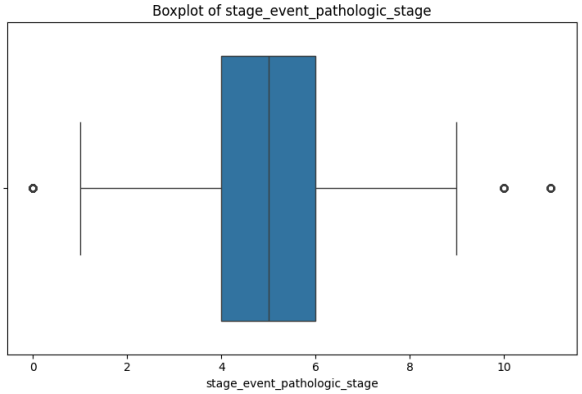


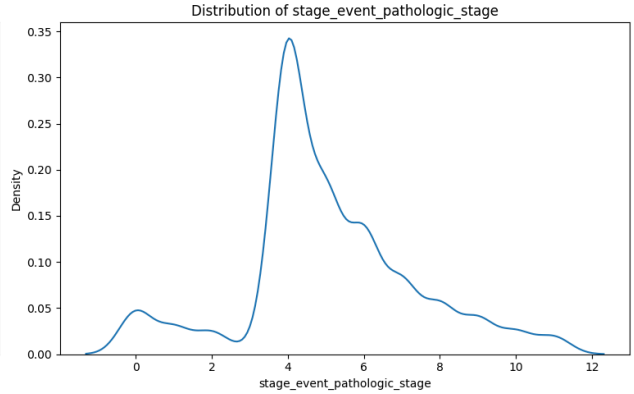

Boxplot of has_new_tumor_events_information
0.0
0.2
0.4
0.6
0.8
1.0
has_new_tumor_events_information

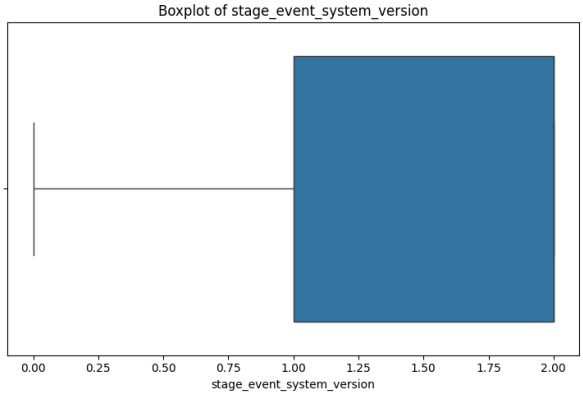

Distribution of has_new_tumor_events_information
Density
0.0
0.5
1.0
1.5
2.0
2.5
−0.2
0.0
0.2
0.4
0.6
0.8
1.0
1.2
has_new_tumor_events_information

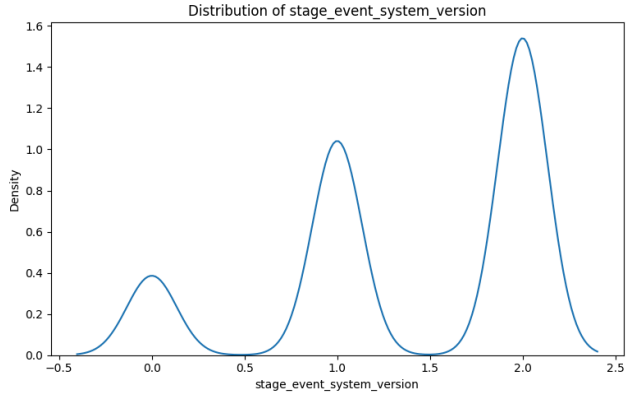

Boxplot of days_to_last_followup
0
500
1000
1500
2000
2500
3000
3500
days_to_last_followup

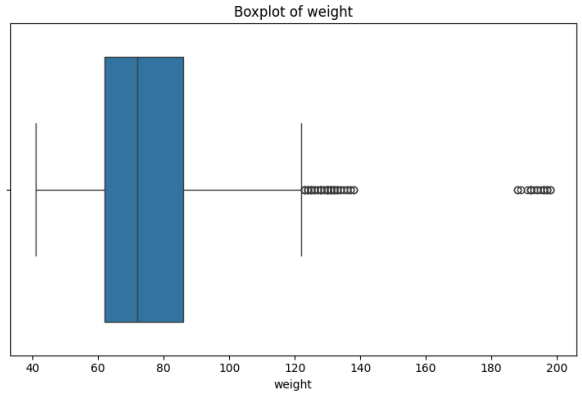

Distribution of days_to_last_followup
Density
0.0000
0.0005
0.0010
0.0015
0.0020
0.0025
0
1000
2000
3000
4000
days_to_last_followup

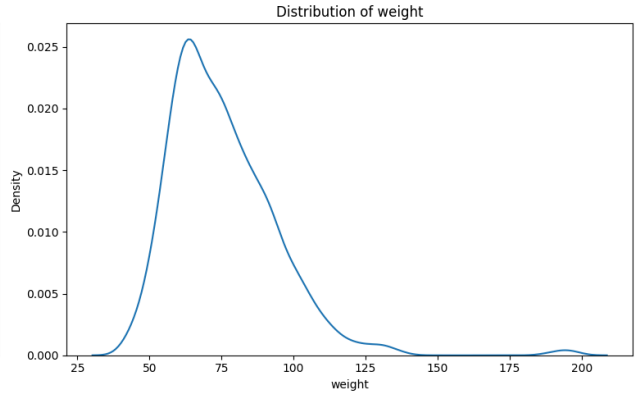

Boxplot of stage_event_pathologic_stage
0
2
4
6
8
10
stage_event_pathologic_stage

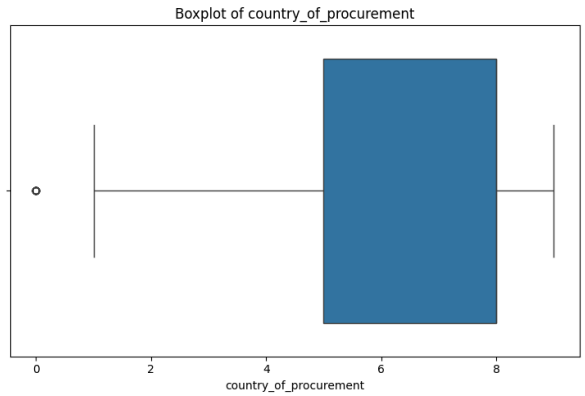

Distribution of stage_event_pathologic_stage
Density
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0
2
4
6
8
10
12
stage_event_pathologic_stage

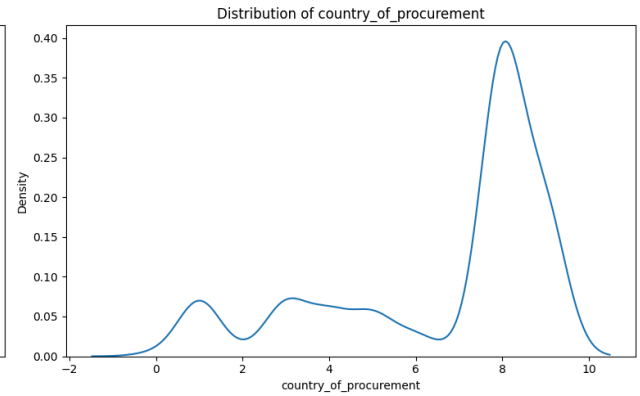

Boxplot of stage_event_system_version
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
2.00
stage_event_system_version

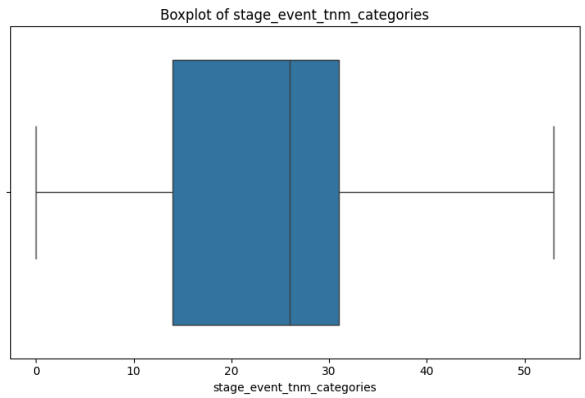

Distribution of stage_event_system_version
Density
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
stage_event_system_version

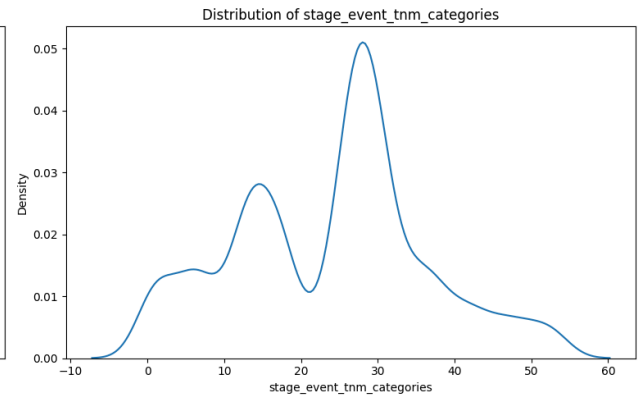

Boxplot of weight
weight

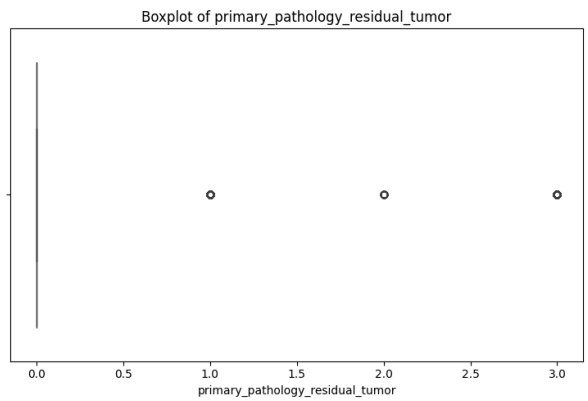

Distribution of weight
Density
weight

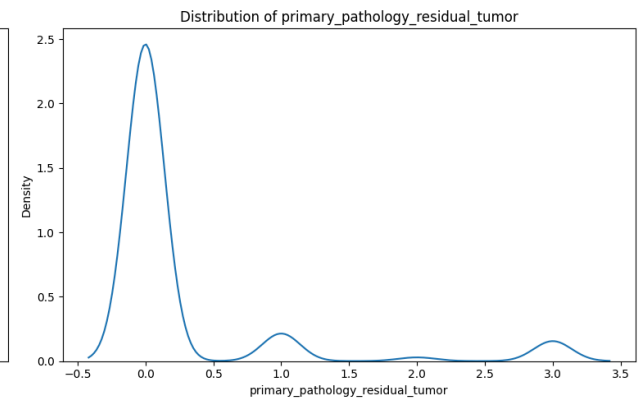

Boxplot of country_of_procurement
country_of_procurement

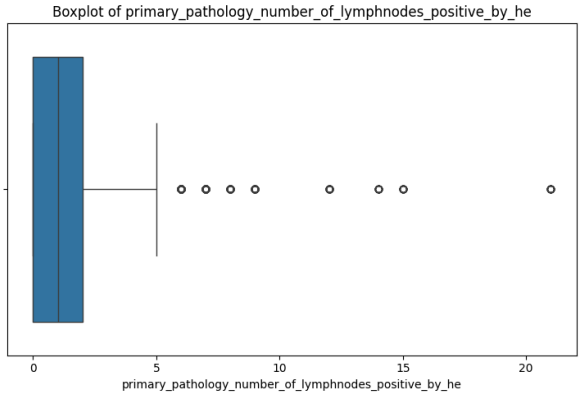

Distribution of country_of_procurement
Density
country_of_procurement

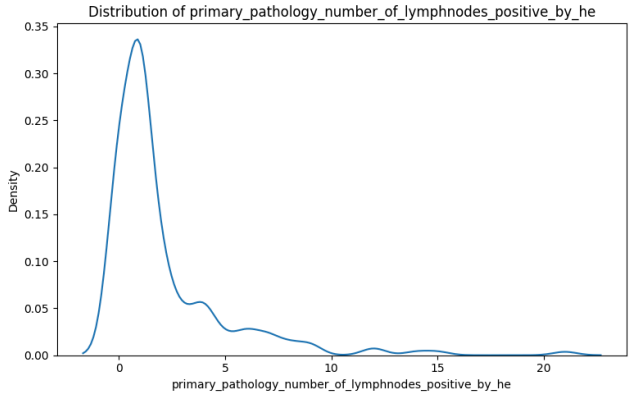

Boxplot of stage_event_tnm_categories
stage_event_tnm_categories

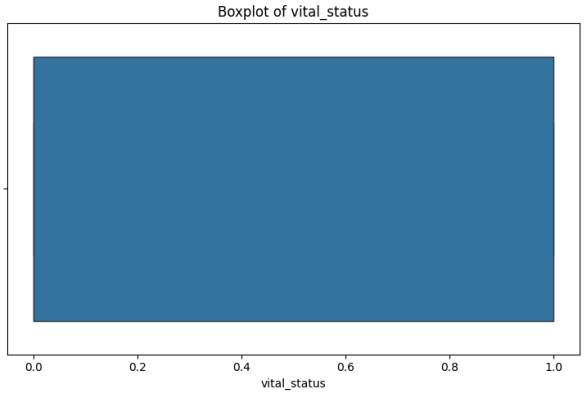

Distribution of stage_event_tnm_categories
Density
stage_event_tnm_categories

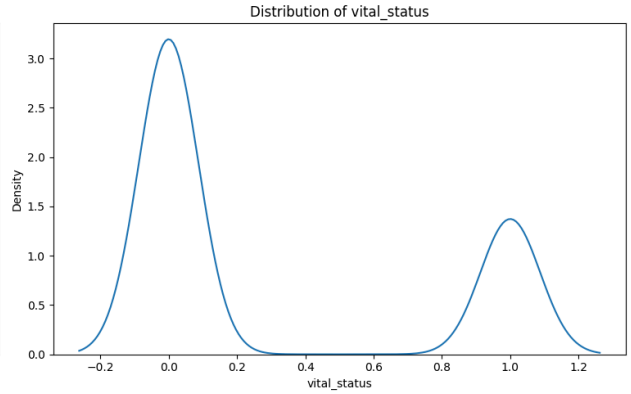

Boxplot of primary_pathology_residual_tumor
primary_pathology_residual_tumor

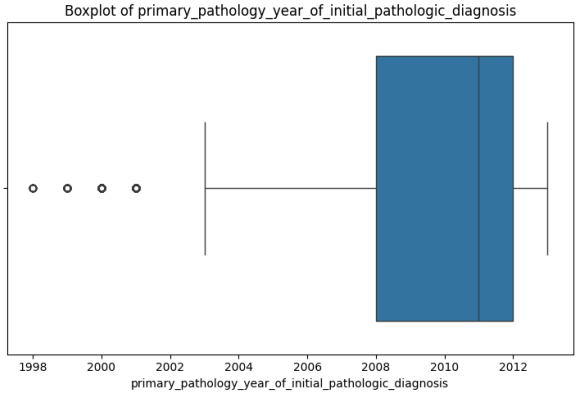

Distribution of primary_pathology_residual_tumor
Density
primary_pathology_residual_tumor

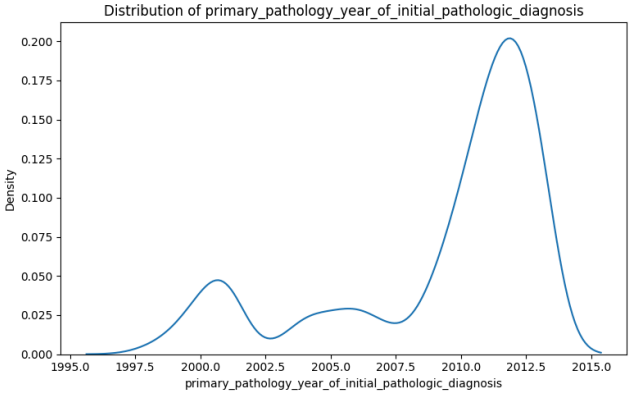

Boxplot of primary_pathology_number_of_lymphnodes_positive_by_he
0
5
10
15
20
primary_pathology_number_of_lymphnodes_positive_by_he

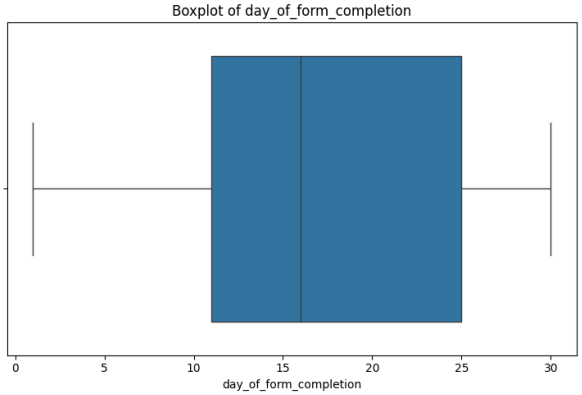

Distribution of primary_pathology_number_of_lymphnodes_positive_by_he
Density
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
5
10
15
20
primary_pathology_number_of_lymphnodes_positive_by_he

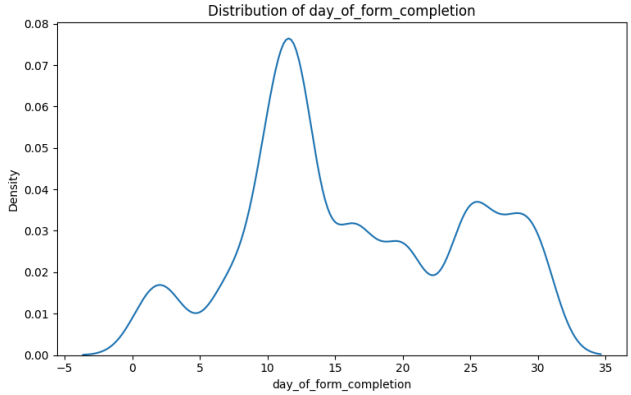

Boxplot of vital_status
0.0
0.2
0.4
0.6
0.8
1.0
vital_status

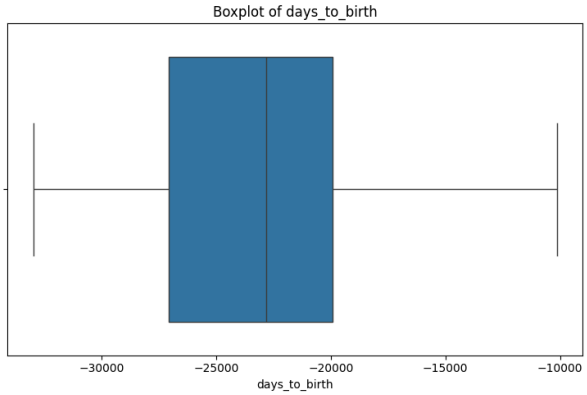

Distribution of vital_status
Density
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−0.2
0.0
0.2
0.4
0.6
0.8
1.0
1.2
vital_status

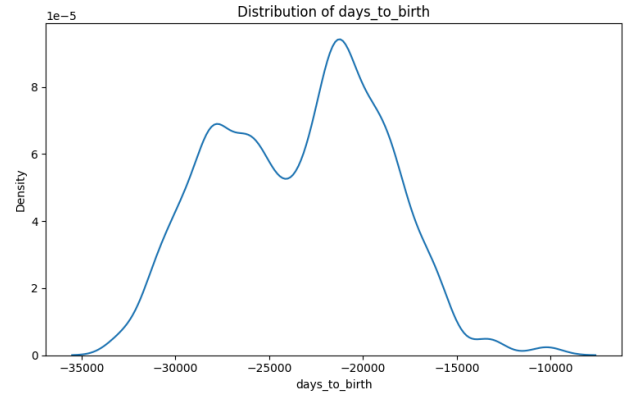

Boxplot of primary_pathology_year_of_initial_pathologic_diagnosis
1998
2000
2002
2004
2006
2008
2010
2012
primary_pathology_year_of_initial_pathologic_diagnosis

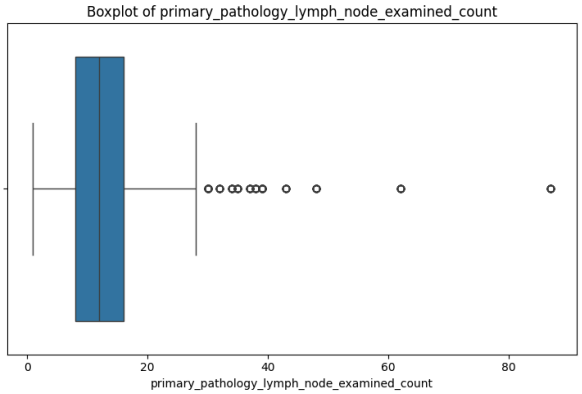

Distribution of primary_pathology_year_of_initial_pathologic_diagnosis
Density
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
1995.0
1997.5
2000.0
2002.5
2005.0
2007.5
2010.0
2012.5
2015.0
primary_pathology_year_of_initial_pathologic_diagnosis

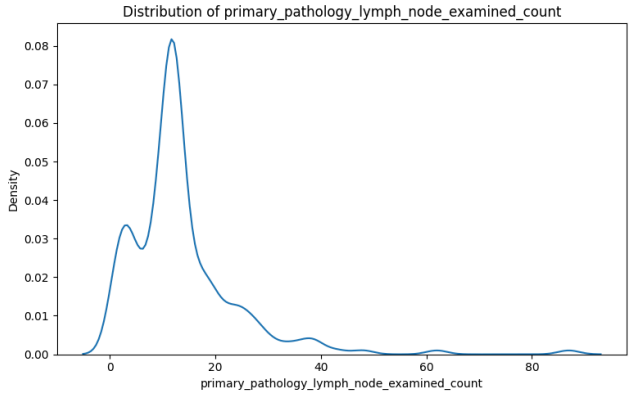

Boxplot of day_of_form_completion
0
5
10
15
20
25
30
day_of_form_completion

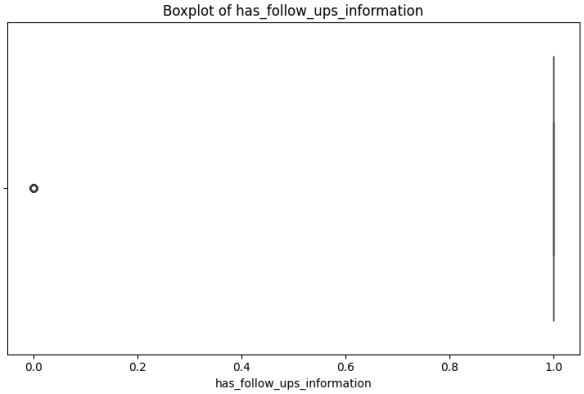

Distribution of day_of_form_completion
Density
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
−5
0
5
10
15
20
25
30
35
day_of_form_completion

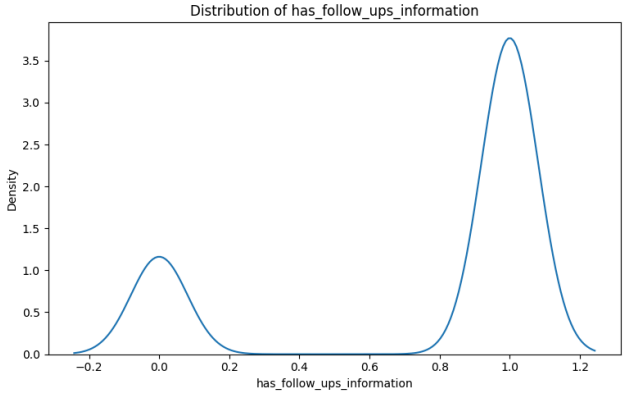

Boxplot of days_to_birth
−30000
−25000
−20000
−15000
−10000
days_to_birth

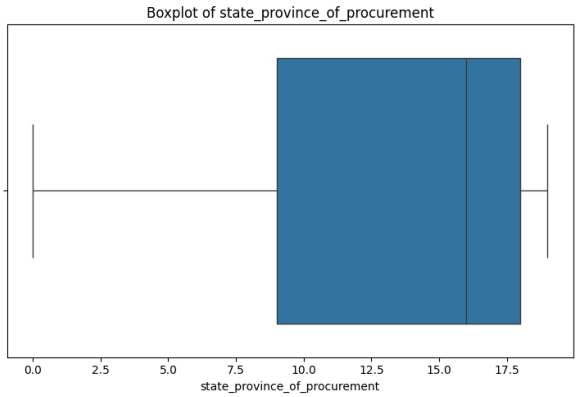

Distribution of days_to_birth
1e−5
Density
0
2
4
6
8
−35000
−30000
−25000
−20000
−15000
−10000
days_to_birth

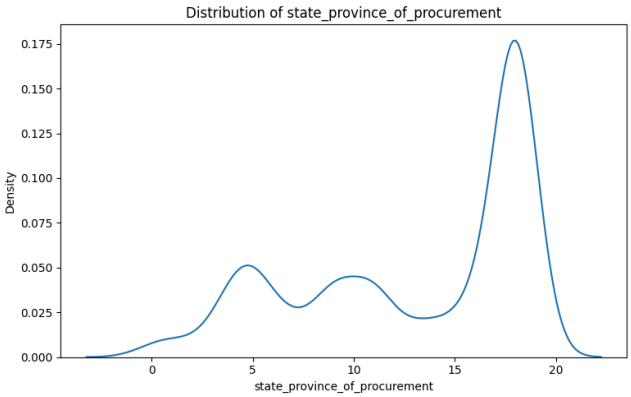

Boxplot of primary_pathology_lymph_node_examined_count
0
20
40
60
80
primary_pathology_lymph_node_examined_count

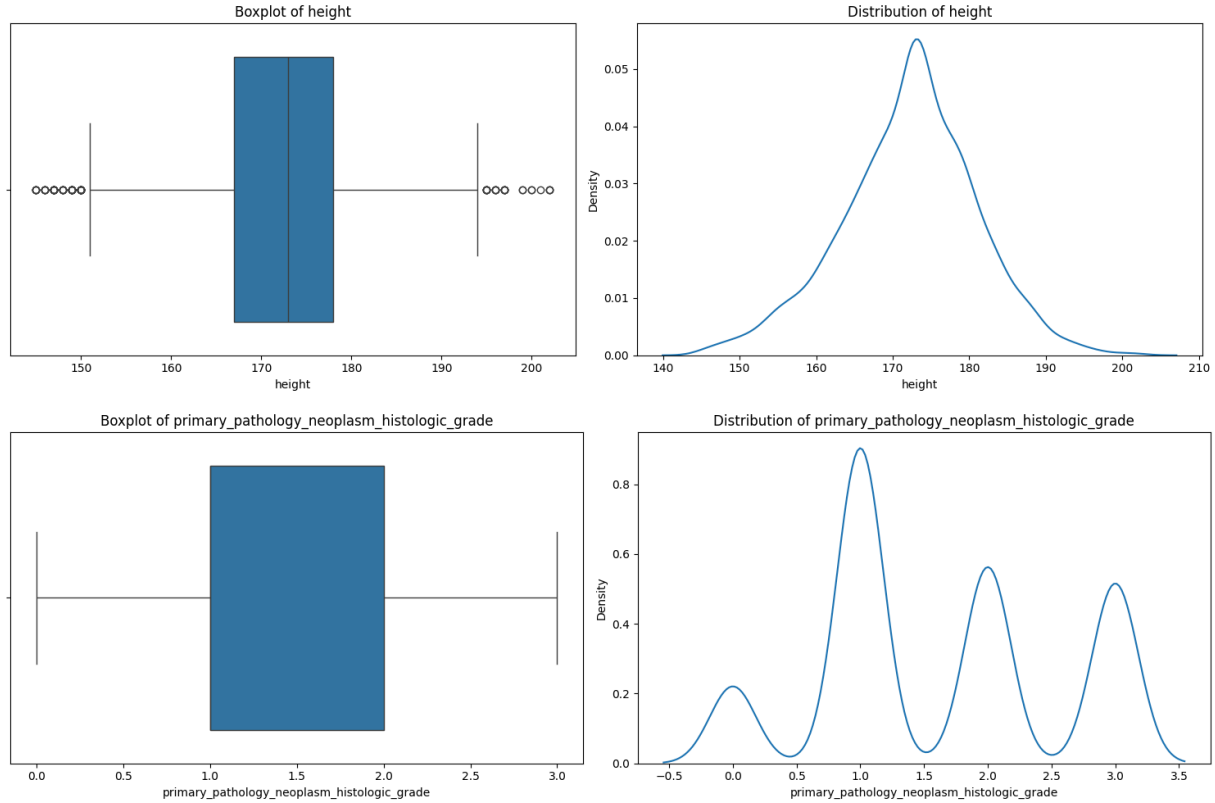

Distribution of primary_pathology_lymph_node_examined_count
Density
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0
20
40
60
80
primary_pathology_lymph_node_examined_count


Boxplot of has_follow_ups_information
0.0
0.2
0.4
0.6
0.8
1.0
has_follow_ups_information


Distribution of has_follow_ups_information
Density
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
−0.2
0.0
0.2
0.4
0.6
0.8
1.0
1.2
has_follow_ups_information


Boxplot of state_province_of_procurement
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
state_province_of_procurement


Distribution of state_province_of_procurement
Density
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0
5
10
15
20
state_province_of_procurement



In [ ]:
```
data.shape
```

Out[ ]: (3985, 55)

In [ ]:
```
columns_to_handle_IQR = ['tissue_source_site', 'days_to_last_followup', 'sta
                         'country_of_procurement', 'primary_pathology_residu
                         'primary_pathology_year_of_initial_pathologic_diagr
                         'has_follow_ups_information', 'height']

skewness_score = data[columns_to_handle_IQR].skew()
print('Skewness Score:\n')
skewness_score
```

Skewness Score:

Out[ ]:

	0
tissue_source_site	0.72204
days_to_last_followup	3.949777
stage_event_pathologic_stage	0.189167
weight	1.686083
country_of_procurement	-1.088117
primary_pathology_residual_tumor	3.022336
primary_pathology_number_of_lymphnodes_positive_by_he	2.898227
primary_pathology_year_of_initial_pathologic_diagnosis	-1.279438
primary_pathology_lymph_node_examined_count	2.695571
has_follow_ups_information	-1.246322
height	-0.187804

dtype: object

In [ ]:

```
for col in columns_to_handle_IQR:

    Q1 = data[col].quantile(0.25)
    Q3 = data[col].quantile(0.75)

    IQR = Q3 - Q1

    lower_bound = Q1 - 1.5 * IQR
    upper_bound = Q3 + 1.5 * IQR

    data = data[(data[col] >= lower_bound) & (data[col] <= upper_bound)]

print("Dataset shape after removing outliers:", data.shape)
```

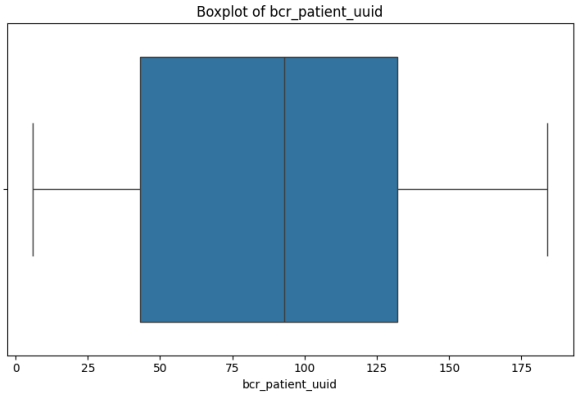
```
Dataset shape after removing outliers: (1333, 55)
```

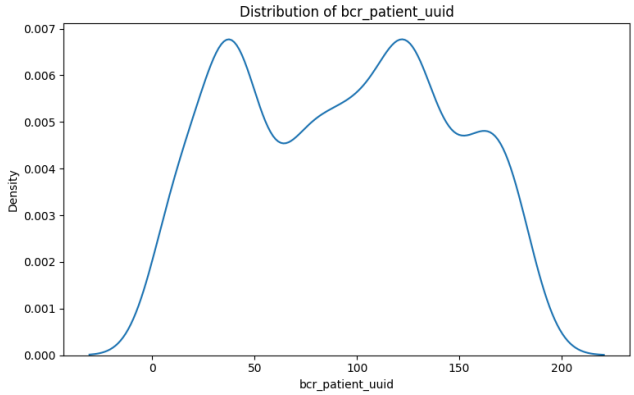
In [ ]:

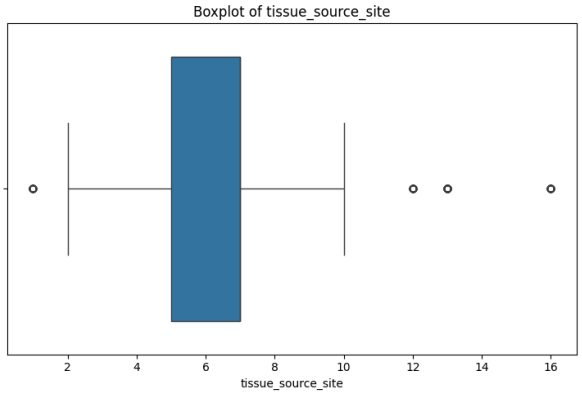
```
for _, cols in enumerate(top_20_feature_names):
    fig, axes = plt.subplots(nrows=1, ncols=2, figsize=(15, 5))

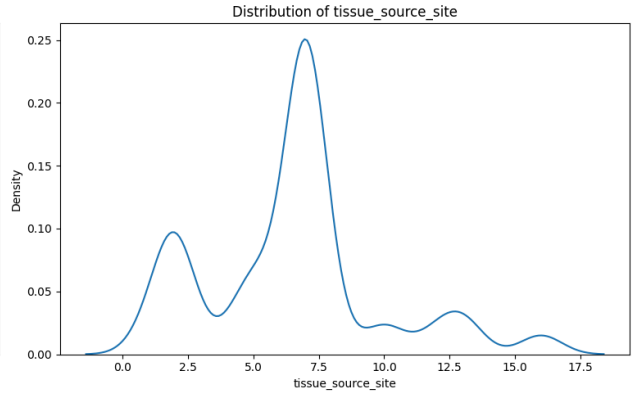
    sns.boxplot(x=data[cols], ax=axes[0]).set_title(f'Boxplot of {cols}')
    sns.kdeplot(x=data[cols], ax=axes[1]).set_title(f'Distribution of {cols}

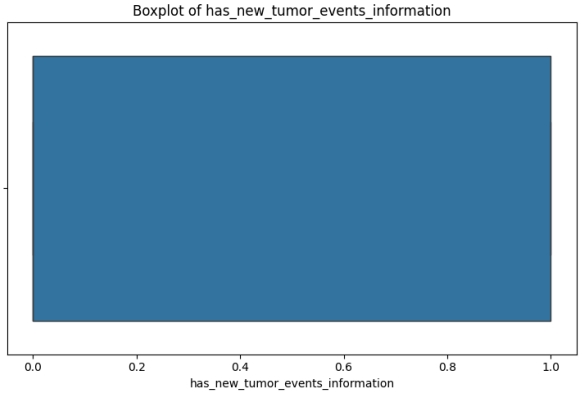
    plt.tight_layout()
    plt.show()
```

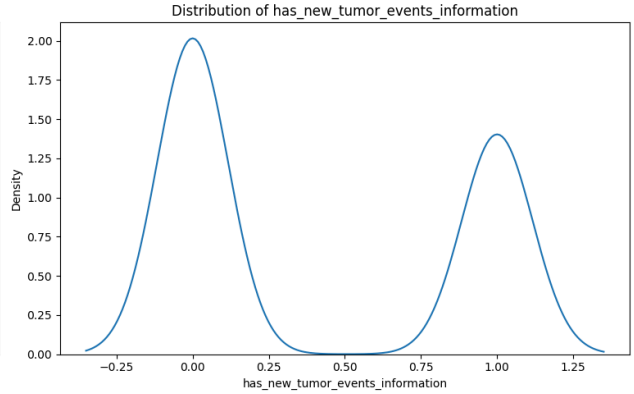

Boxplot of bcr_patient_uuid
0
25
50
75
100
125
150
175
bcr_patient_uuid

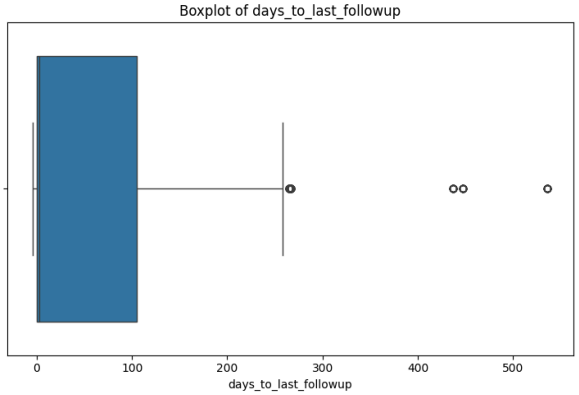

Distribution of bcr_patient_uuid
Density
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
50
100
150
200
bcr_patient_uuid

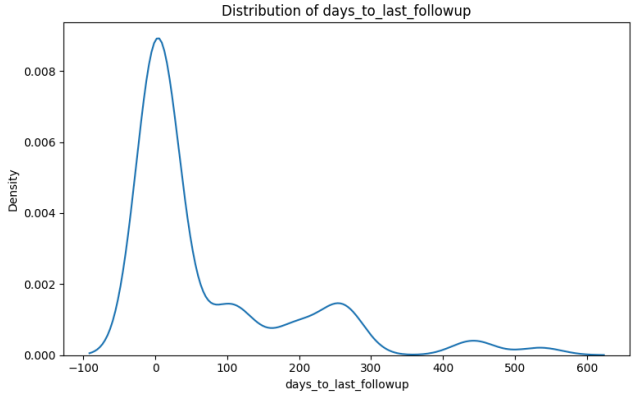

Boxplot of tissue_source_site
2
4
6
8
10
12
14
16
tissue_source_site

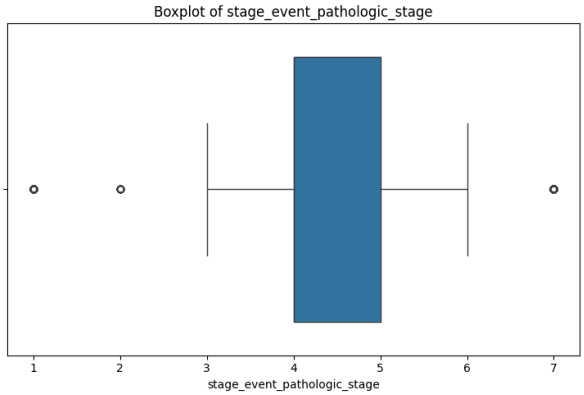

Distribution of tissue_source_site
Density
0.25
0.20
0.15
0.10
0.05
0.00
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
tissue_source_site

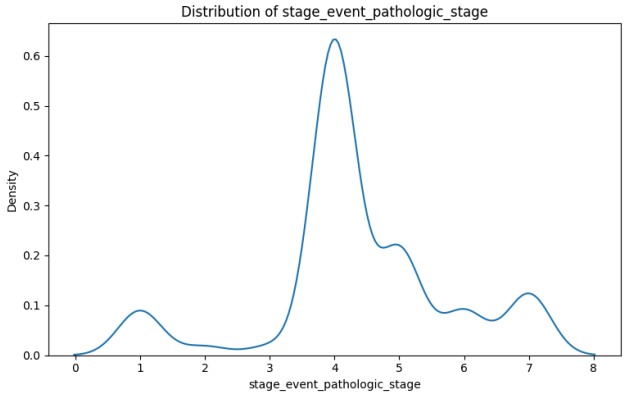

Boxplot of has_new_tumor_events_information
0.0
0.2
0.4
0.6
0.8
1.0
has_new_tumor_events_information

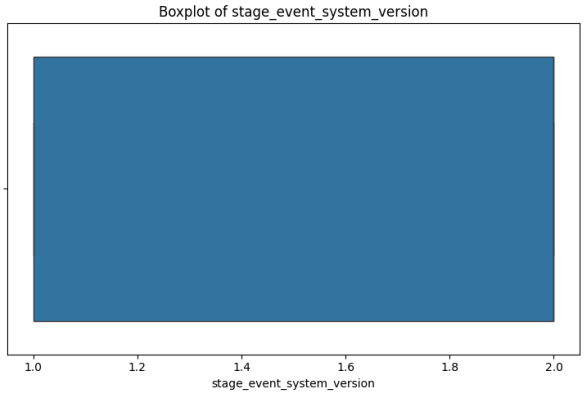

Distribution of has_new_tumor_events_information
Density
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
−0.25
0.00
0.25
0.50
0.75
1.00
1.25
has_new_tumor_events_information

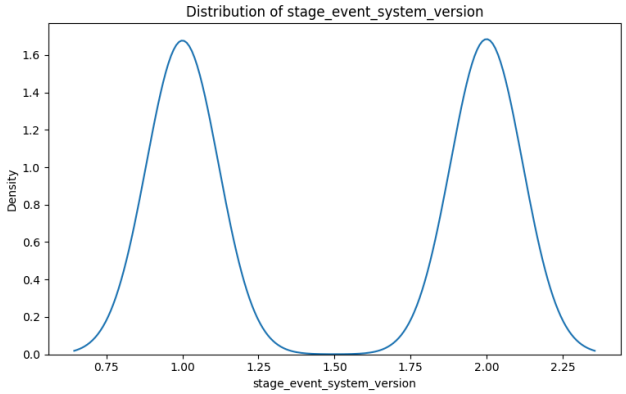

Boxplot of days_to_last_followup
0
100
200
300
400
500
days_to_last_followup

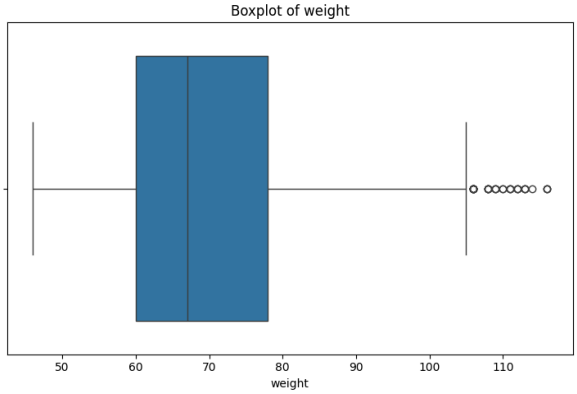

Distribution of days_to_last_followup
Density
0.008
0.006
0.004
0.002
0.000
−100
0
100
200
300
400
500
600
days_to_last_followup

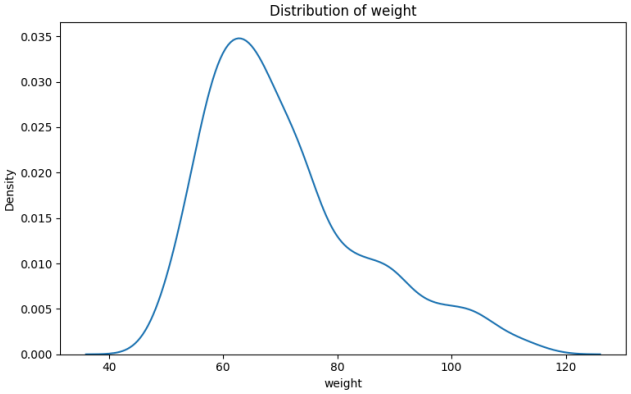

Boxplot of stage_event_pathologic_stage
1
2
3
4
5
6
7
stage_event_pathologic_stage

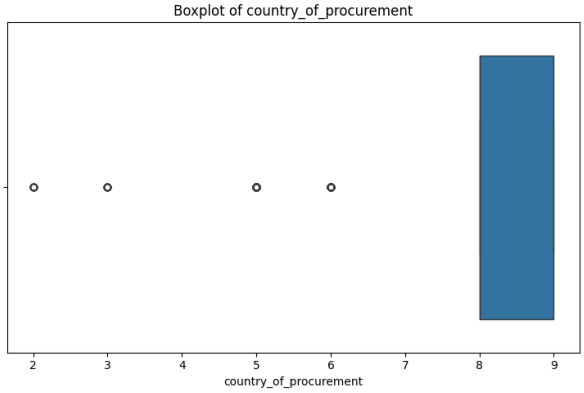

Distribution of stage_event_pathologic_stage
Density
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
1
2
3
4
5
6
7
8
stage_event_pathologic_stage

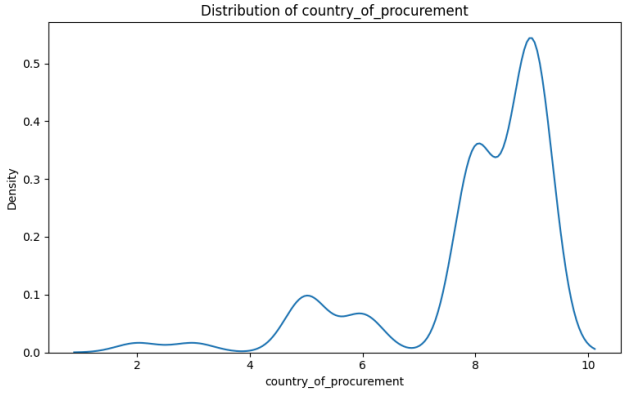

Boxplot of stage_event_system_version
1.0
1.2
1.4
1.6
1.8
2.0
stage_event_system_version

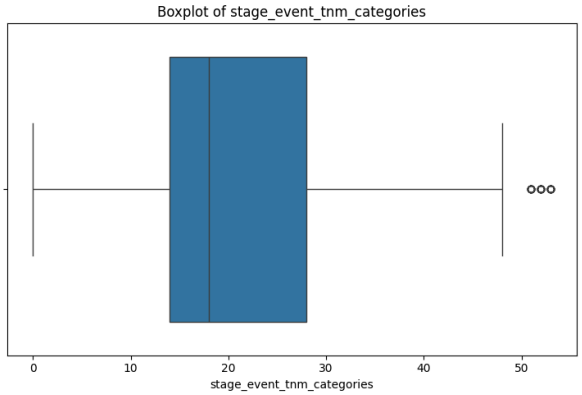

Distribution of stage_event_system_version
Density
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.75
1.00
1.25
1.50
1.75
2.00
2.25
stage_event_system_version

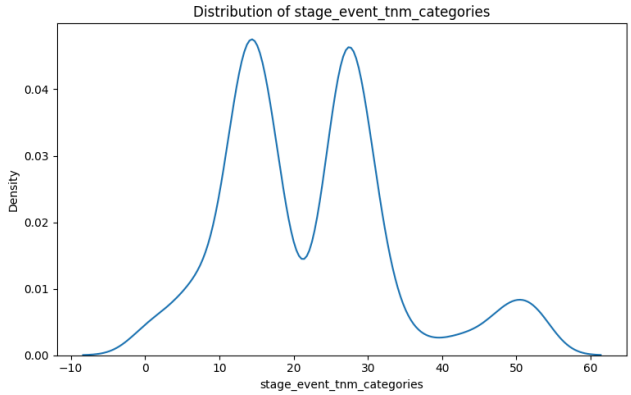

Boxplot of weight
50
60
70
80
90
100
110
weight

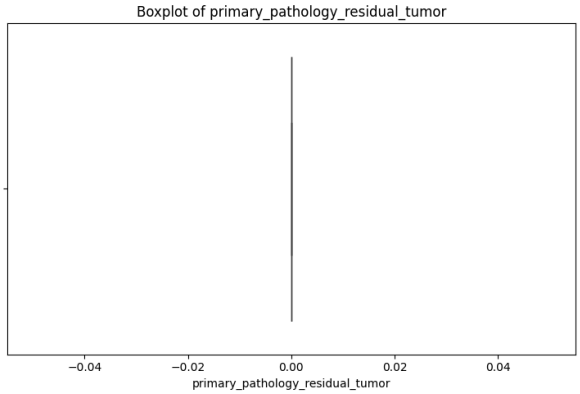

Distribution of weight
Density
0.000
0.005
0.010
0.015
0.020
0.025
0.030
0.035
40
60
80
100
120
weight

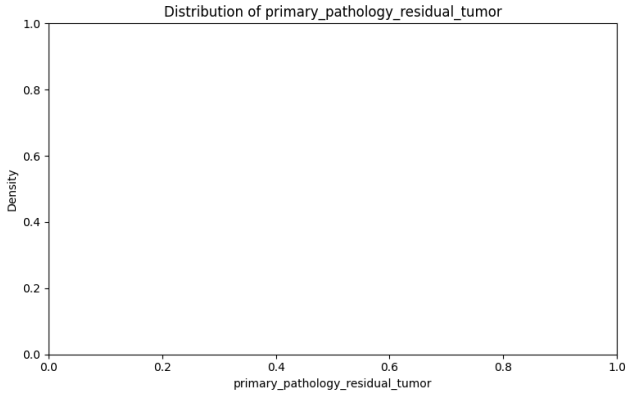

Boxplot of country_of_procurement
2
3
4
5
6
7
8
9
country_of_procurement

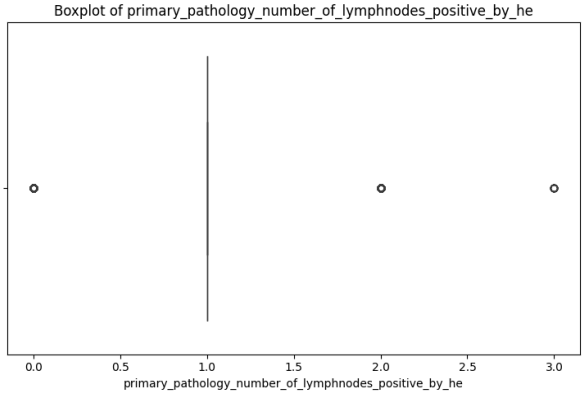

Distribution of country_of_procurement
Density
0.0
0.1
0.2
0.3
0.4
0.5
2
4
6
8
10
country_of_procurement

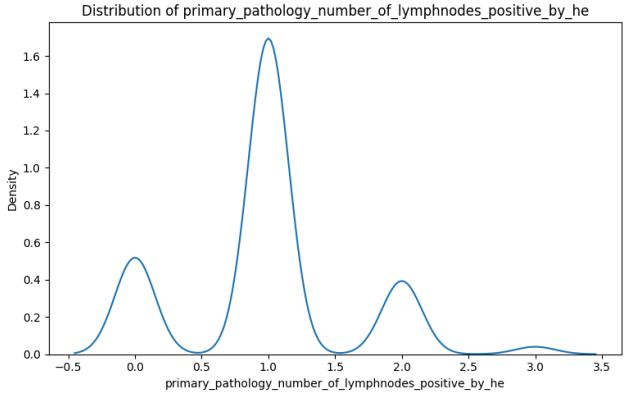

Boxplot of stage_event_tnm_categories
0
10
20
30
40
50
stage_event_tnm_categories

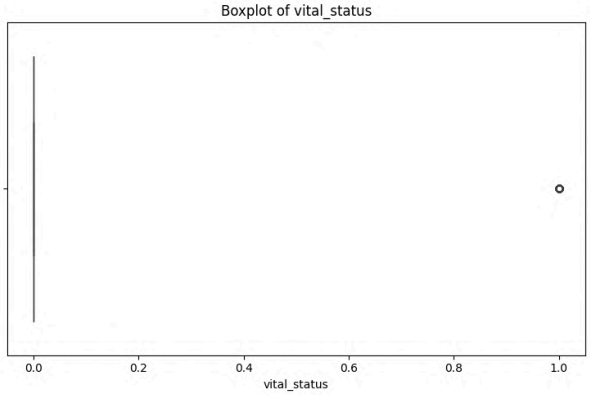

Distribution of stage_event_tnm_categories
Density
0.00
0.01
0.02
0.03
0.04
−10
0
10
20
30
40
50
60
stage_event_tnm_categories

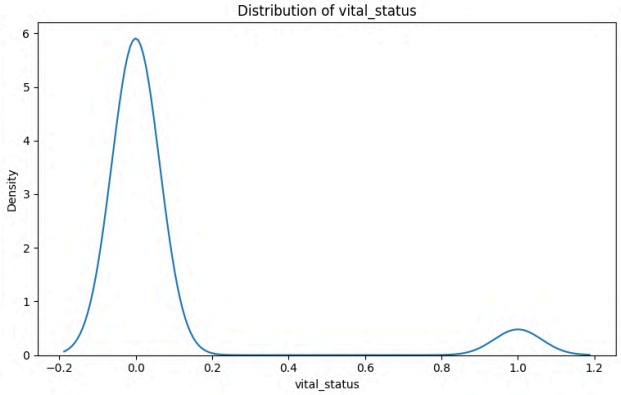

Boxplot of primary_pathology_residual_tumor
−0.04
−0.02
0.00
0.02
0.04
primary_pathology_residual_tumor

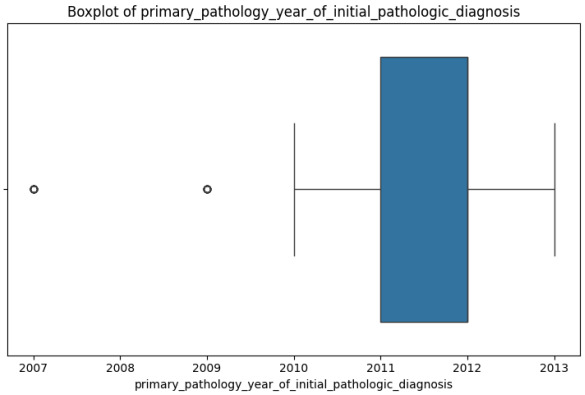

Distribution of primary_pathology_residual_tumor
Density
0.0
0.2
0.4
0.6
0.8
1.0
primary_pathology_residual_tumor

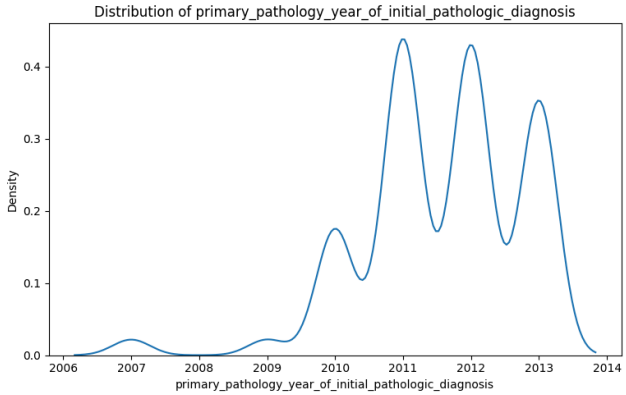

Boxplot of primary_pathology_number_of_lymphnodes_positive_by_he
0.0
0.5
1.0
1.5
2.0
2.5
3.0
primary_pathology_number_of_lymphnodes_positive_by_he

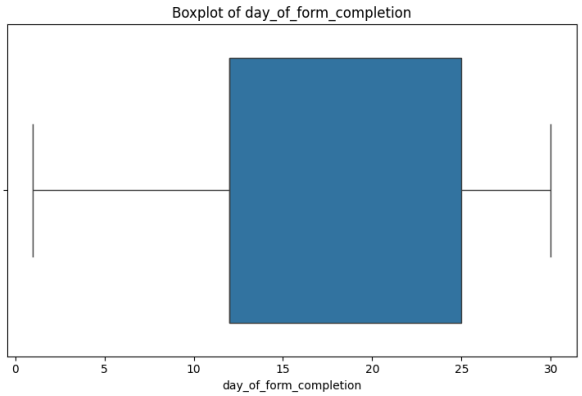

Distribution of primary_pathology_number_of_lymphnodes_positive_by_he
Density
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
primary_pathology_number_of_lymphnodes_positive_by_he

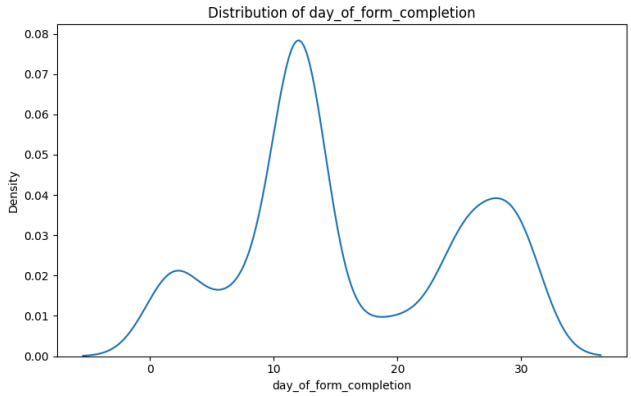

Boxplot of vital_status
0.0
0.2
0.4
0.6
0.8
1.0
vital_status

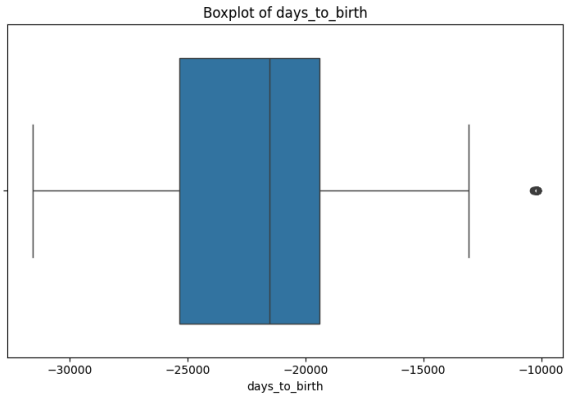

Distribution of vital_status
Density
0
1
2
3
4
5
6
−0.2
0.0
0.2
0.4
0.6
0.8
1.0
1.2
vital_status

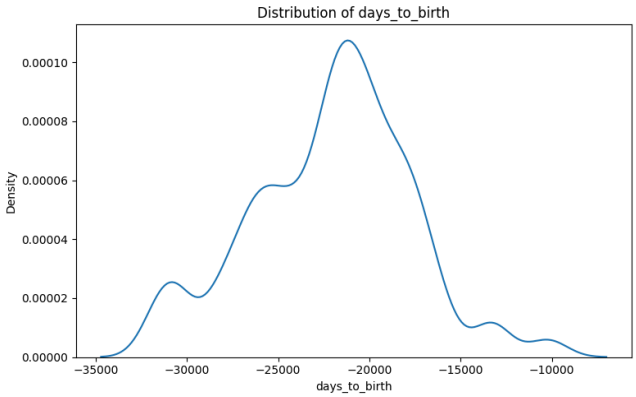

Boxplot of primary_pathology_year_of_initial_pathologic_diagnosis
2007
2008
2009
2010
2011
2012
2013
primary_pathology_year_of_initial_pathologic_diagnosis

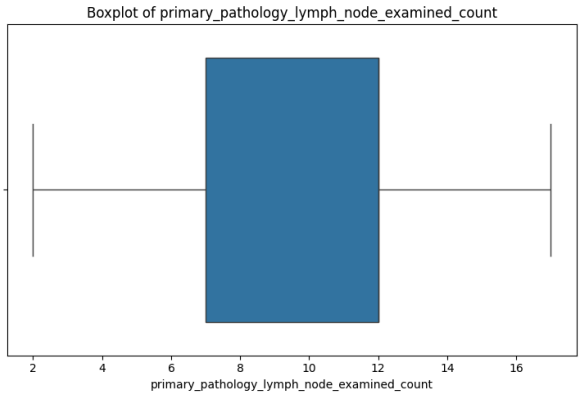

Distribution of primary_pathology_year_of_initial_pathologic_diagnosis
Density
0.0
0.1
0.2
0.3
0.4
2006
2007
2008
2009
2010
2011
2012
2013
2014
primary_pathology_year_of_initial_pathologic_diagnosis

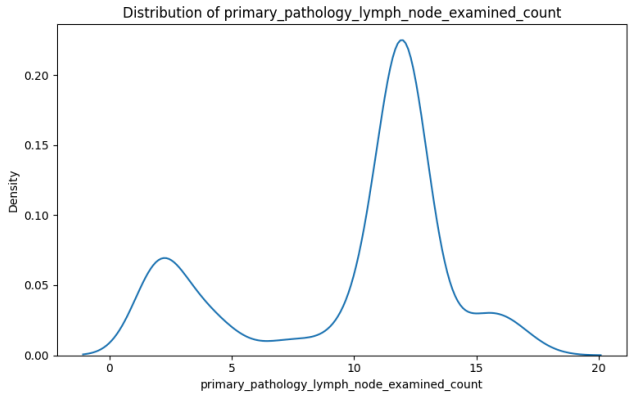

Boxplot of day_of_form_completion
0
5
10
15
20
25
30
day_of_form_completion

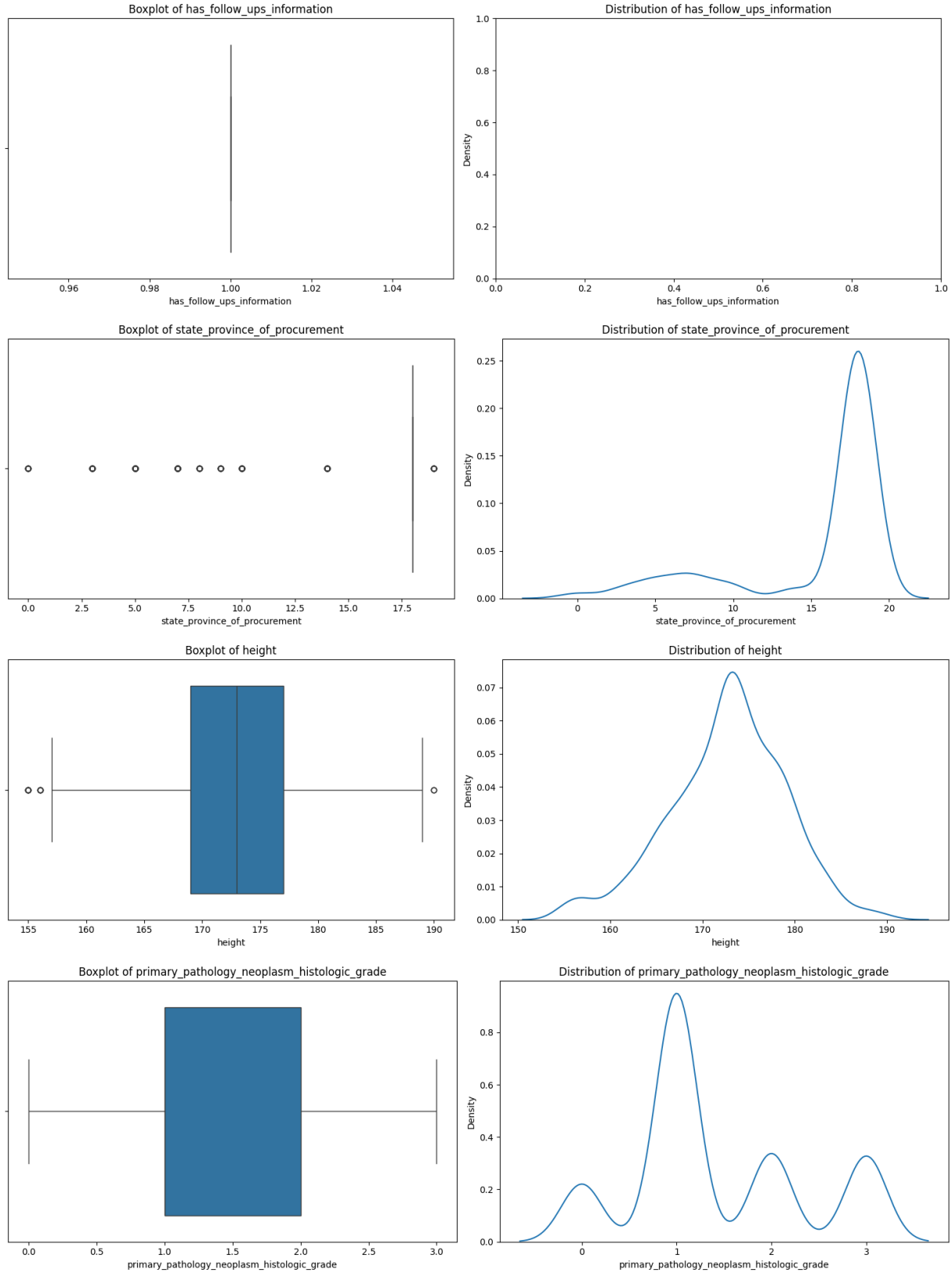

Distribution of day_of_form_completion
Density
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0
10
20
30
day_of_form_completion


Boxplot of days_to_birth
−30000
−25000
−20000
−15000
−10000
days_to_birth


Distribution of days_to_birth
Density
0.00000
0.00002
0.00004
0.00006
0.00008
0.00010
−35000
−30000
−25000
−20000
−15000
−10000
days_to_birth


Boxplot of primary_pathology_lymph_node_examined_count
2
4
6
8
10
12
14
16
primary_pathology_lymph_node_examined_count


Distribution of primary_pathology_lymph_node_examined_count
Density
0.00
0.05
0.10
0.15
0.20
0
5
10
15
20
primary_pathology_lymph_node_examined_count

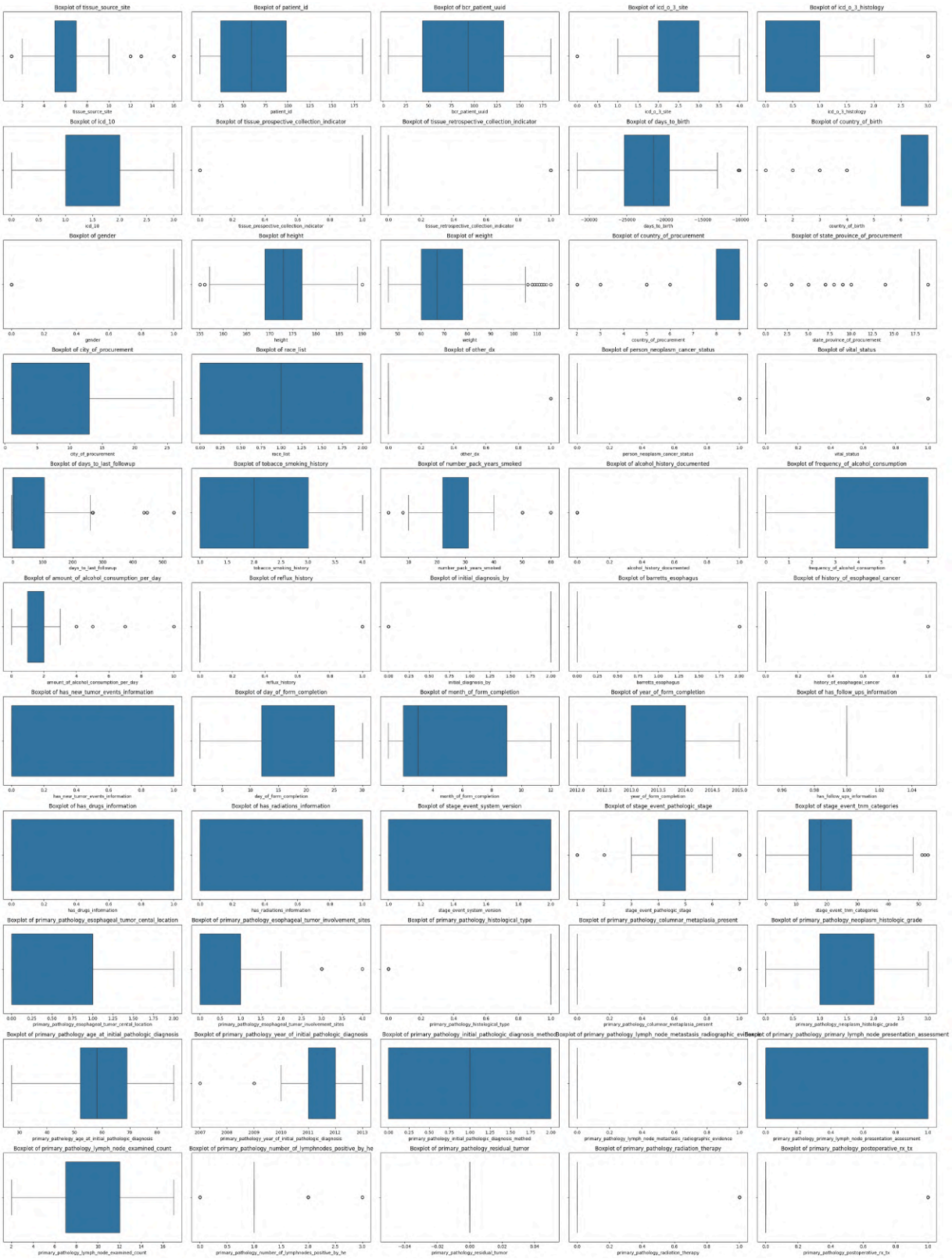


In [ ]:

```
fig, axes = plt.subplots(nrows=11, ncols=5, figsize=(30, 40))
axes = axes.flatten()

for i, cols in enumerate(data):
    sns.boxplot(x=cols, data=data, ax=axes[i]).set_title(f'Boxplot of {cols}
```

```
plt.tight_layout()
plt.show()
```



In [ ]:
```
skewness_score = data[columns_to_handle_IQR].skew()
print('Skewness Score After Removal Of Outliers:\n')
skewness_score
```

```
Skewness Score After Removal Of Outliers:
```

Out[ ]:

	0
tissue_source_site	0.627545
days_to_last_followup	1.858751
stage_event_pathologic_stage	-0.308899
weight	0.945939
country_of_procurement	-1.844133
primary_pathology_residual_tumor	0.0
primary_pathology_number_of_lymphnodes_positive_by_he	0.365188
primary_pathology_year_of_initial_pathologic_diagnosis	-0.941109
primary_pathology_lymph_node_examined_count	-0.846862
has_follow_ups_information	0.0
height	-0.335578

dtype: object

In [ ]:

```
data[top_20_feature_names].info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 1333 entries, 13 to 3979
Data columns (total 20 columns):
 #   Column                                                  Non-Null Count
Dtype
---  ------                                                  --------------
-----
 0   bcr_patient_uuid                                        1333 non-null
object
 1   tissue_source_site                                      1333 non-null
object
 2   has_new_tumor_events_information                        1333 non-null
object
 3   days_to_last_followup                                   1333 non-null
float64
 4   stage_event_pathologic_stage                            1333 non-null
int64
 5   stage_event_system_version                              1333 non-null
object
 6   weight                                                  1333 non-null
float64
 7   country_of_procurement                                  1333 non-null
int64
 8   stage_event_tnm_categories                              1333 non-null
object
 9   primary_pathology_residual_tumor                        1333 non-null
int64
 10  primary_pathology_number_of_lymphnodes_positive_by_he   1333 non-null
float64
 11  vital_status                                            1333 non-null
object
 12  primary_pathology_year_of_initial_pathologic_diagnosis  1333 non-null
float64
 13  day_of_form_completion                                  1333 non-null
int64
 14  days_to_birth                                           1333 non-null
int64
 15  primary_pathology_lymph_node_examined_count             1333 non-null
float64
 16  has_follow_ups_information                              1333 non-null
object
 17  state_province_of_procurement                           1333 non-null
int64
 18  height                                                  1333 non-null
float64
 19  primary_pathology_neoplasm_histologic_grade             1333 non-null
object
dtypes: float64(6), int64(6), object(8)
memory usage: 218.7+ KB
```

In [ ]:

```
object_columns = data[top_20_feature_names].select_dtypes(include=['object']

for col in object_columns:
    try:
        data[col] = data[col].astype(float)
```

```
    except ValueError as e:
        print(f"Could not convert column {col}: {e}")
```

In [ ]:
```
data[top_20_feature_names].info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 1333 entries, 13 to 3979
Data columns (total 20 columns):
 #   Column                                                  Non-Null Count
Dtype
---  ------                                                  --------------
-----
 0   bcr_patient_uuid                                        1333 non-null
float64
 1   tissue_source_site                                      1333 non-null
float64
 2   has_new_tumor_events_information                        1333 non-null
float64
 3   days_to_last_followup                                   1333 non-null
float64
 4   stage_event_pathologic_stage                            1333 non-null
int64
 5   stage_event_system_version                              1333 non-null
float64
 6   weight                                                  1333 non-null
float64
 7   country_of_procurement                                  1333 non-null
int64
 8   stage_event_tnm_categories                              1333 non-null
float64
 9   primary_pathology_residual_tumor                        1333 non-null
int64
 10  primary_pathology_number_of_lymphnodes_positive_by_he   1333 non-null
float64
 11  vital_status                                            1333 non-null
float64
 12  primary_pathology_year_of_initial_pathologic_diagnosis  1333 non-null
float64
 13  day_of_form_completion                                  1333 non-null
int64
 14  days_to_birth                                           1333 non-null
int64
 15  primary_pathology_lymph_node_examined_count             1333 non-null
float64
 16  has_follow_ups_information                              1333 non-null
float64
 17  state_province_of_procurement                           1333 non-null
int64
 18  height                                                  1333 non-null
float64
 19  primary_pathology_neoplasm_histologic_grade             1333 non-null
float64
dtypes: float64(14), int64(6)
memory usage: 218.7 KB
```

FEATURE SELECTION:

In [ ]:
```
X = data[top_20_feature_names] # Features
y = data['person_neoplasm_cancer_status'] # Target variable
```

TRAIN-TEST SPLIT:

In [ ]:
```
from sklearn.model_selection import train_test_split

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, rar
```

FEATURE SCALING - StandardScaler:

In [ ]:
```
from sklearn.preprocessing import StandardScaler

scaler = StandardScaler()
X_train_scaled = scaler.fit_transform(X_train)
X_test_scaled = scaler.transform(X_test)
```

MODEL BUILDING - WITHOUT HYPERPARAMETER TUNING

In [ ]:
```
from sklearn.linear_model import LogisticRegression
from sklearn.neighbors import KNeighborsClassifier
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import RandomForestClassifier, AdaBoostClassifier, Ext
from sklearn.svm import SVC
from sklearn.naive_bayes import GaussianNB
from catboost import CatBoostClassifier
from xgboost import XGBClassifier
from lightgbm import LGBMClassifier
from sklearn.metrics import accuracy_score, f1_score, confusion_matrix

classifiers = {
    'Logistic Regression': LogisticRegression(),
    'K-Nearest Neighbors': KNeighborsClassifier(),
    'Decision Tree': DecisionTreeClassifier(),
    'Random Forest': RandomForestClassifier(),
    'Support Vector Classifier': SVC(),
    'Naive Bayes': GaussianNB(),
    'XGBoost': XGBClassifier(),
    'AdaBoost': AdaBoostClassifier(),
    'Extra Trees': ExtraTreesClassifier(),
    'HistGradientBoosting': HistGradientBoostingClassifier(),
```

```
    'CatBoost': CatBoostClassifier(verbose=0),
    'LightGBM': LGBMClassifier()
}

results = {}

for name, clf in classifiers.items():

    clf.fit(X_train, y_train)

    y_pred = clf.predict(X_test)

    accuracy = accuracy_score(y_test, y_pred)
    f1 = f1_score(y_test, y_pred)

    results[name] = {'Accuracy': accuracy, 'F1 Score': f1}

results_df = pd.DataFrame(results).T

results_df_sorted = results_df.sort_values(by='F1 Score', ascending=False)
results_df_sorted
```

```
[LightGBM] [Info] Number of positive: 123, number of negative: 943
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000580 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.115385 -> initscore=-2.036
882
[LightGBM] [Info] Start training from score -2.036882
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
```

```
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
```

Out[ ]:

	Accuracy	F1 Score
K-Nearest Neighbors	1.000000	1.000000
Decision Tree	1.000000	1.000000
Random Forest	1.000000	1.000000
XGBoost	1.000000	1.000000
AdaBoost	1.000000	1.000000
Extra Trees	1.000000	1.000000
HistGradientBoosting	1.000000	1.000000
CatBoost	1.000000	1.000000
LightGBM	1.000000	1.000000
Logistic Regression	0.973783	0.862745
Naive Bayes	0.921348	0.655738
Support Vector Classifier	0.902622	0.000000

CONFUSION MATRIX:

In [ ]:

```
cm = confusion_matrix(y_test, y_pred)
cm
```

Out[ ]:

```
array([[241,   0],
       [  0,  26]])
```

Confusion Matrix Result:

	Predicted TUMOR FREE	Predicted WITH TUMOR
Actual TUMOR FREE	241	0
Actual WITH TUMOR	0	26

Explanation:

1. True Negatives (TUMOR FREE, Predicted as TUMOR FREE)

- **Count:** 241
- **Meaning:** The model correctly identified 241 instances as "TUMOR FREE" when they indeed had no tumor.

2. False Positives (TUMOR FREE, Predicted as WITH TUMOR)

- **Count:** 0

- **Meaning:** The model did not incorrectly predict any "TUMOR FREE" instances as "WITH TUMOR."

3. False Negatives (WITH TUMOR, Predicted as TUMOR FREE)

- **Count:** 0
- **Meaning:** The model did not incorrectly predict any "WITH TUMOR" instances as "TUMOR FREE."

4. True Positives (WITH TUMOR, Predicted as WITH TUMOR)

- **Count:** 26
- **Meaning:** The model correctly identified 26 instances as "WITH TUMOR" when they actually had a tumor.

Insights:

- **Good Predictions:** The model performed well, with all of the predictions falling into the diagonal of the matrix:
  - **241** (True Negatives) – "TUMOR FREE" correctly predicted.
  - **26** (True Positives) – "WITH TUMOR" correctly predicted.
- **No Misclassifications:**
  - There are no instances where "TUMOR FREE" was misclassified as "WITH TUMOR" (**False Positives**).
  - There are no instances where "WITH TUMOR" was misclassified as "TUMOR FREE" (**False Negatives**).

Derived Metrics:

- **Accuracy:** The model is perfectly accurate in this case, as there are no misclassifications.

- **Precision (for WITH TUMOR):** All predicted "WITH TUMOR" cases were correct.

- **Recall (for WITH TUMOR):** The model correctly identified all the "WITH TUMOR" instances.

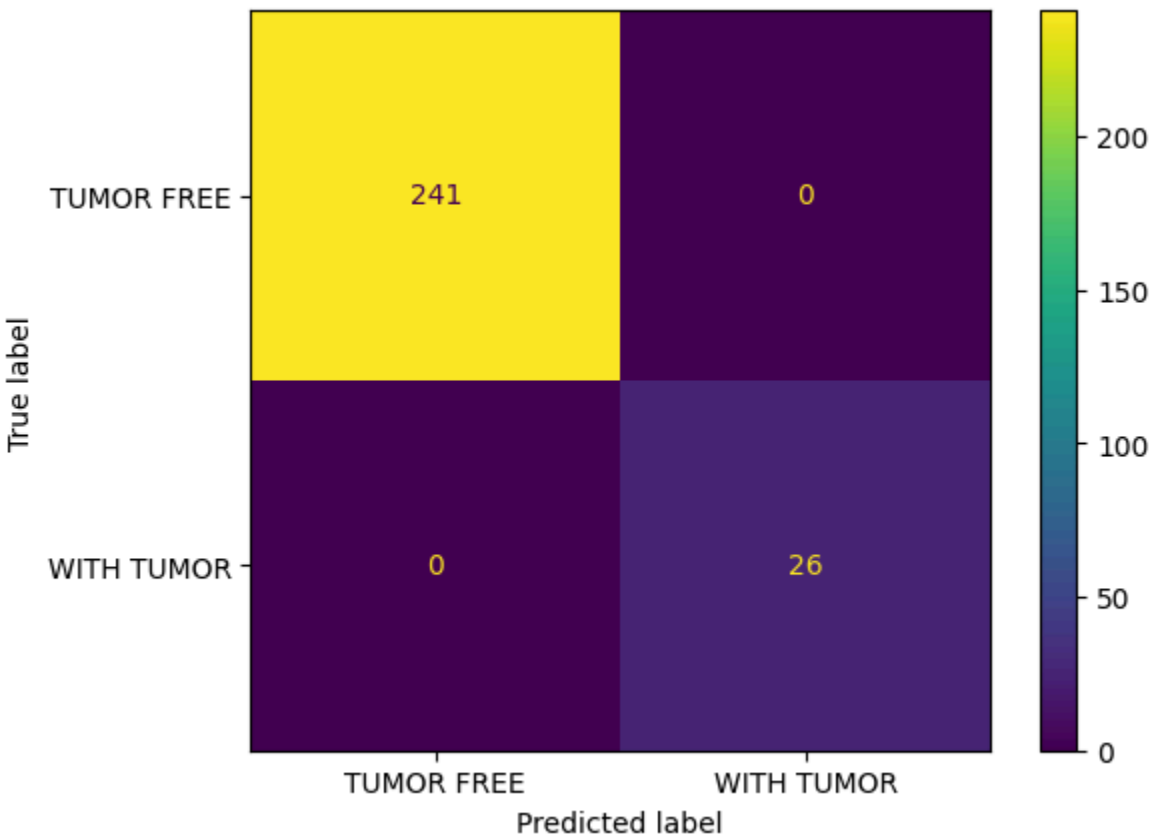
- **F1 Score:** Since there are no misclassifications, the F1 score will also be perfect.

Conclusion:

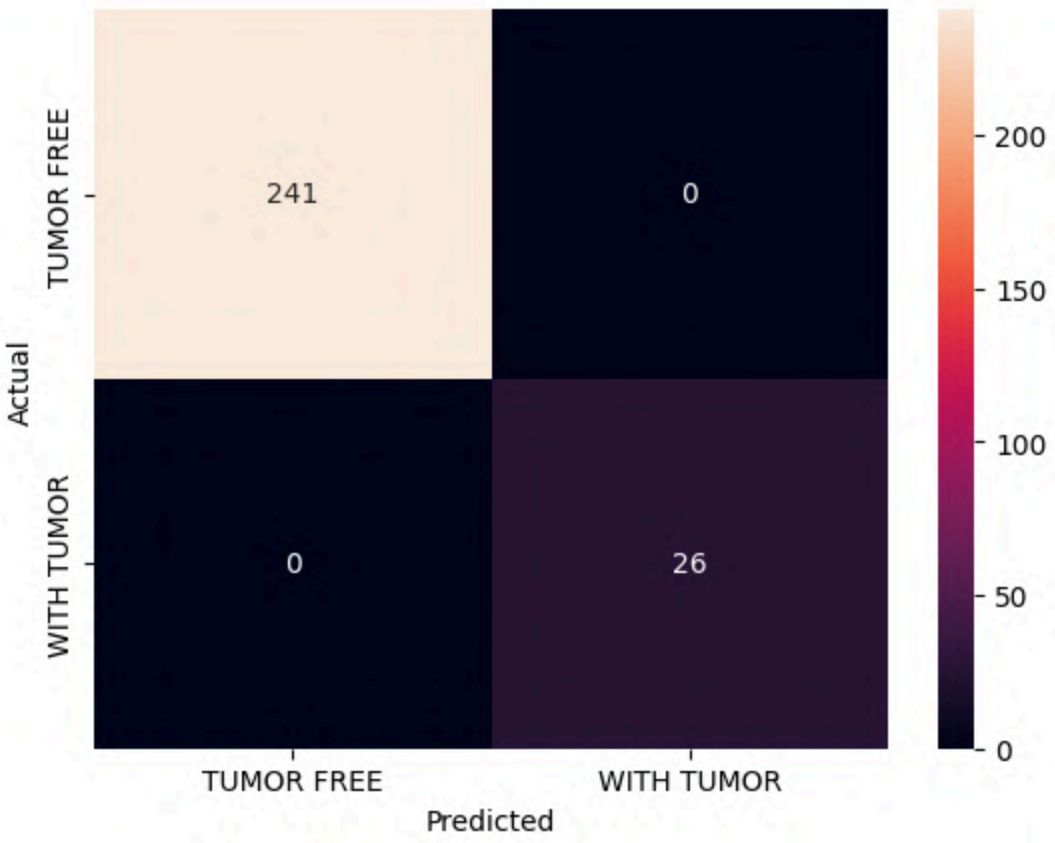
The confusion matrix reveals a **perfect classification model** with no false positives or false negatives. The model has successfully identified all **"TUMOR FREE"** and **"WITH TUMOR"** instances correctly, achieving excellent performance.

In [ ]:
```
from sklearn.metrics import ConfusionMatrixDisplay

disp = ConfusionMatrixDisplay(confusion_matrix=cm, display_labels=['TUMOR FR
disp.plot()
plt.show()
```



In [ ]:
```
labels = ['TUMOR FREE', 'WITH TUMOR']
sns.heatmap(cm, annot=True, fmt='d', xticklabels=labels, yticklabels=labels)
plt.xlabel('Predicted')
plt.ylabel('Actual')
plt.show()
```



CLASSIFICATION REPORT:

- A classification report is a summary of how well a machine learning model performs in a classification task.
- It provides key metrics that evaluate the model's performance, helping to understand where it excels and where it might need improvement.

In [ ]:
```
from sklearn.metrics import classification_report

print(classification_report(y_test, y_pred))
```

```
              precision    recall  f1-score   support

           0       1.00      1.00      1.00       241
           1       1.00      1.00      1.00        26

    accuracy                           1.00       267
   macro avg       1.00      1.00      1.00       267
weighted avg       1.00      1.00      1.00       267
```

K - FOLD CROSS- VALIDATION:

- K-fold cross-validation is a robust method for assessing the performance of machine learning models.
- It involves dividing the dataset into 'k' subsets, or folds, and training the model on 'k-1' folds while testing it on the remaining fold.
- This process is repeated 'k' times, with each fold serving as the test set once.

In [ ]:
```
from sklearn.model_selection import KFold, cross_val_score

k = 5
kf = KFold(n_splits=k, shuffle=True, random_state=4)

kf_results = {}

for name, clf in classifiers.items():

    try:

        accuracy_scores = cross_val_score(clf, X, y, cv=kf, scoring='accurac
        f1_scores = cross_val_score(clf, X, y, cv=kf, scoring='f1_weighted')

        kf_results[name] = {
            'Mean Accuracy': accuracy_scores.mean(),
            'Mean F1 Score': f1_scores.mean()
        }

    except Exception as e:

        print(f"Error encountered for classifier {name}: {e}")

kf_results_df = pd.DataFrame(kf_results).T

kf_results_df_sorted = kf_results_df.sort_values(by='Mean F1 Score', ascendi

kf_results_df_sorted
```

```
Error encountered for classifier XGBoost: 'super' object has no attribute '_
_sklearn_tags__'
[LightGBM] [Info] Number of positive: 118, number of negative: 948
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000211 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 565
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.110694 -> initscore=-2.083
670
[LightGBM] [Info] Start training from score -2.083670
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Info] Number of positive: 117, number of negative: 949
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000189 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 565
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.109756 -> initscore=-2.093
235
[LightGBM] [Info] Start training from score -2.093235
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Info] Number of positive: 123, number of negative: 943
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000183 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 561
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.115385 -> initscore=-2.036
882
[LightGBM] [Info] Start training from score -2.036882
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Info] Number of positive: 122, number of negative: 945
```

```
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000207 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1067, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.114339 -> initscore=-2.047
164
[LightGBM] [Info] Start training from score -2.047164
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Info] Number of positive: 116, number of negative: 951
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
```

```
sting was 0.000185 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1067, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.108716 -> initscore=-2.103
924
[LightGBM] [Info] Start training from score -2.103924
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Info] Number of positive: 118, number of negative: 948
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000195 seconds.
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You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 565
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.110694 -> initscore=-2.083
670
[LightGBM] [Info] Start training from score -2.083670
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Info] Number of positive: 117, number of negative: 949
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000187 seconds.
You can set `force_row_wise=true` to remove the overhead.
```

```
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 565
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.109756 -> initscore=-2.093
235
[LightGBM] [Info] Start training from score -2.093235
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
```

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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Info] Number of positive: 123, number of negative: 943
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000189 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
```

```
[LightGBM] [Info] Total Bins 561
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.115385 -> initscore=-2.036
882
[LightGBM] [Info] Start training from score -2.036882
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Info] Number of positive: 122, number of negative: 945
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000197 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
```

```
[LightGBM] [Info] Number of data points in the train set: 1067, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.114339 -> initscore=-2.047
164
[LightGBM] [Info] Start training from score -2.047164
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Info] Number of positive: 116, number of negative: 951
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000187 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1067, number of us
```

```
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.108716 -> initscore=-2.103
924
[LightGBM] [Info] Start training from score -2.103924
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
```

```
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
```

Out[ ]:

	Mean Accuracy	Mean F1 Score
Decision Tree	1.000000	1.000000
Random Forest	1.000000	1.000000
Extra Trees	1.000000	1.000000
CatBoost	1.000000	1.000000
K-Nearest Neighbors	0.999248	0.999253
AdaBoost	0.999251	0.999246
HistGradientBoosting	0.999251	0.999246
LightGBM	0.996995	0.996943
Logistic Regression	0.958723	0.957937
Naive Bayes	0.915246	0.919328
Support Vector Classifier	0.888221	0.835672

K-Fold Cross Validation Insights:

Overview of Results:

Model	Mean Accuracy	Mean F1 Score
Decision Tree	1.000000	1.000000
Random Forest	1.000000	1.000000
Extra Trees	1.000000	1.000000
CatBoost	1.000000	1.000000
K-Nearest Neighbors	0.999248	0.999253
AdaBoost	0.999251	0.999246
HistGradientBoosting	0.999251	0.999246
LightGBM	0.996995	0.996943
Logistic Regression	0.958723	0.957937
Naive Bayes	0.915246	0.919328
Support Vector Classifier	0.888221	0.835672

Insights:

1. Top Performers:

- **Decision Tree, Random Forest, Extra Trees, and CatBoost** all achieved perfect performance with a mean accuracy and F1 score of **1.000000**. This indicates that these models are highly accurate in distinguishing between

"TUMOR FREE" and "WITH TUMOR" cases in your dataset, performing excellently in predicting both classes across all K-Fold splits.

2. Highly Effective Models:

- **K-Nearest Neighbors (KNN)**, **AdaBoost**, and **HistGradientBoosting** have near-perfect accuracy and F1 scores (around **0.9992**), showing very good performance. These models have a slight drop compared to the top performers but still provide strong predictive power for both the "TUMOR FREE" and "WITH TUMOR" classes.

3. Good but Slightly Lower Performance:

- **LightGBM** has a mean accuracy of **0.997** and F1 score of **0.997**. While still excellent, it's slightly less effective than the tree-based models in this case. Nonetheless, it could still be a good option for large datasets or when training time is a concern.

4. Moderate Performance:

- **Logistic Regression** has a mean accuracy of **0.9587** and an F1 score of **0.9579**, which shows decent performance but falls behind the tree-based and ensemble models. It may benefit from further hyperparameter tuning or additional feature engineering to improve results.

5. Below Average Performance:

- **Naive Bayes** performed with an accuracy of **0.9152** and an F1 score of **0.9193**, which shows that it struggles to perform as well as the advanced models. The assumption of feature independence may not hold in this dataset, leading to its lower performance compared to more robust models.

6. Low Performance:

- **Support Vector Classifier (SVC)** has the lowest mean accuracy (**0.8882**) and F1 score (**0.8357**). This suggests that the SVC model is struggling to accurately distinguish between "TUMOR FREE" and "WITH TUMOR" classes. This could be due to improper kernel choice, lack of tuning, or the model's inability to handle the dataset's complexity.

Conclusion:

- **Best Performers:** Models such as **Decision Tree**, **Random Forest**, **Extra Trees**, and **CatBoost** have the best overall performance with perfect accuracy and F1 scores, making them the most reliable models for classifying between "TUMOR FREE" and "WITH TUMOR".

- **Strong Models: KNN**, **AdaBoost**, and **HistGradientBoosting** are also highly effective, showing minor variations but still excellent predictive performance.
- **Good but Room for Improvement: LightGBM**, **Logistic Regression**, and **Naive Bayes** performed reasonably well but could be further optimized.
- **Improvement Needed: SVC** displayed the weakest performance and would need extensive tuning or reconsideration of model choice.

In summary, tree-based models and boosting algorithms (especially CatBoost, Random Forest, and Extra Trees) are highly recommended for this classification task. Models like **SVC** and **Logistic Regression** might need additional refinement or feature engineering to enhance their performance in classifying "TUMOR FREE" vs. "WITH TUMOR".

HYPERPARAMETER TUNING - GRID SEARCH:

In [ ]:
```
from sklearn.model_selection import GridSearchCV

hp_grids = {
    'Logistic Regression': {
        'C': [0.1, 1, 10],
        'solver': ['liblinear', 'lbfgs']
    },
    'K-Nearest Neighbors': {
        'n_neighbors': [3, 5, 7, 9],
        'weights': ['uniform', 'distance'],
        'algorithm': ['auto', 'ball_tree', 'kd_tree', 'brute']
    },
    'Decision Tree': {
        'max_depth': [3, 5, 7, 10],
        'min_samples_split': [2, 5, 10],
        'min_samples_leaf': [1, 2, 4]
    },
    'Random Forest': {
        'n_estimators': [50, 100, 200],
        'max_depth': [3, 5, 7],
        'min_samples_split': [2, 5, 10],
        'min_samples_leaf': [1, 2, 4]
    },
    'Support Vector Classifier': {
        'C': [0.1, 1, 10],
        'kernel': ['linear', 'rbf'],
        'gamma': ['scale', 'auto']
    },
    'Naive Bayes': {},
    'XGBoost': {
        'n_estimators': [50, 100, 200],
```

```
        'learning_rate': [0.01, 0.1, 0.2],
        'max_depth': [3, 5, 7],
        'subsample': [0.8, 1.0]
    },
    'AdaBoost': {
        'n_estimators': [50, 100, 200],
        'learning_rate': [0.01, 0.1, 1.0]
    },
    'Extra Trees': {
        'n_estimators': [50, 100, 200],
        'max_depth': [3, 5, 7],
        'min_samples_split': [2, 5, 10],
        'min_samples_leaf': [1, 2, 4]
    },
    'HistGradientBoosting': {
        'max_iter': [100, 200, 300],
        'max_depth': [3, 5, 7],
        'learning_rate': [0.01, 0.1, 0.2],
        'min_samples_leaf': [1, 2, 4]
    },
    'CatBoost': {
        'iterations': [50, 100, 200],
        'depth': [3, 5, 7],
        'learning_rate': [0.01, 0.1, 0.2],
        'l2_leaf_reg': [1, 3, 5]
    },
    'LightGBM': {
        'n_estimators': [50, 100, 200],
        'learning_rate': [0.01, 0.1, 0.2],
        'max_depth': [3, 5, 7],
        'num_leaves': [31, 50, 70]
    }
}

hp_tuned_results = {}

for name, clf in classifiers.items():
    try:
        print(f"Performing grid search for {name}...")

        hp_grid_search = GridSearchCV(clf, hp_grids[name], cv=5, scoring='f1
        hp_grid_search.fit(X_train, y_train)

        hp_best_model = hp_grid_search.best_estimator_
        hp_y_pred = hp_best_model.predict(X_test)

        accuracy = accuracy_score(y_test, hp_y_pred)
        f1 = f1_score(y_test, hp_y_pred)

        hp_tuned_results[name] = {
            'Best Params': hp_grid_search.best_params_,
            'Accuracy': accuracy,
            'F1 Score': f1
        }

    except Exception as e:
```

```
        print(f"Error encountered for classifier {name}: {e}")

Cls_hp_tuned_results_df = pd.DataFrame(hp_tuned_results).T

Cls_hp_tuned_results_df_sorted = Cls_hp_tuned_results_df.sort_values(by='F1

Cls_hp_tuned_results_df_sorted
```

```
Performing grid search for Logistic Regression...
Fitting 5 folds for each of 6 candidates, totalling 30 fits
Performing grid search for K-Nearest Neighbors...
Fitting 5 folds for each of 32 candidates, totalling 160 fits
Performing grid search for Decision Tree...
Fitting 5 folds for each of 36 candidates, totalling 180 fits
Performing grid search for Random Forest...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
Performing grid search for Support Vector Classifier...
Fitting 5 folds for each of 12 candidates, totalling 60 fits
Performing grid search for Naive Bayes...
Fitting 5 folds for each of 1 candidates, totalling 5 fits
Performing grid search for XGBoost...
Error encountered for classifier XGBoost: 'super' object has no attribute '_
_sklearn_tags__'
Performing grid search for AdaBoost...
Fitting 5 folds for each of 9 candidates, totalling 45 fits
Performing grid search for Extra Trees...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
Performing grid search for HistGradientBoosting...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
Performing grid search for CatBoost...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
Performing grid search for LightGBM...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
[LightGBM] [Info] Number of positive: 123, number of negative: 943
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000212 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.115385 -> initscore=-2.036
882
[LightGBM] [Info] Start training from score -2.036882
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
```

Out[ ]:

	Best Params	Accuracy	F1 Score
K-Nearest Neighbors	{'algorithm': 'auto', 'n_neighbors': 3, 'weigh...	1.0	1.0
Decision Tree	{'max_depth': 5, 'min_samples_leaf': 1, 'min_s...	1.0	1.0
Random Forest	{'max_depth': 5, 'min_samples_leaf': 1, 'min_s...	1.0	1.0
AdaBoost	{'learning_rate': 0.1, 'n_estimators': 200}	1.0	1.0
Extra Trees	{'max_depth': 7, 'min_samples_leaf': 1, 'min_s...	1.0	1.0
HistGradientBoosting	{'learning_rate': 0.1, 'max_depth': 3, 'max_it...	1.0	1.0
CatBoost	{'depth': 3, 'iterations': 50, 'l2_leaf_reg': ...	1.0	1.0
LightGBM	{'learning_rate': 0.1, 'max_depth': 3, 'n_esti...	1.0	1.0
Logistic Regression	{'C': 10, 'solver': 'liblinear'}	0.992509	0.961538
Support Vector Classifier	{'C': 1, 'gamma': 'scale', 'kernel': 'linear'}	0.985019	0.916667
Naive Bayes	{}	0.921348	0.655738

CLASSIFICATION REPORT - AFTER HYPERPARAMETER TUNNING USING GRID SEARCH:

In [ ]:
```
print(classification_report(y_test, hp_y_pred))
```

```
              precision    recall  f1-score   support

           0       1.00      1.00      1.00       241
           1       1.00      1.00      1.00        26

    accuracy                           1.00       267
   macro avg       1.00      1.00      1.00       267
weighted avg       1.00      1.00      1.00       267
```

Classification Report Explanation - Before & After Hyperparameter Tuning Using Grid Search:

Class	Precision	Recall	F1-Score	Support
TUMOR FREE (0)	1.00	1.00	1.00	241
WITH TUMOR (1)	1.00	1.00	1.00	26
Accuracy			1.00	267
Macro avg	1.00	1.00	1.00	267
Weighted avg	1.00	1.00	1.00	267

Metrics Breakdown:

1. Precision:

- The model has a precision of 1.00 for both classes ("TUMOR FREE" and "WITH TUMOR"). This means that when the model predicted a class (whether TUMOR FREE or WITH TUMOR), it was correct 100% of the time.

2. Recall:

- The recall is also 1.00 for both classes, indicating that the model identified 100% of the actual instances for both "TUMOR FREE" and "WITH TUMOR" classes.

3. F1-Score:

- The F1-score is 1.00 for both classes. This combines precision and recall, providing a single metric that indicates the model is performing perfectly for both classes.

4. Support:

- Support refers to the number of occurrences of each class in the dataset. In this case, there are 241 instances of "TUMOR FREE" and 26 instances of "WITH TUMOR."

5. Accuracy:

- The overall accuracy is 1.00, meaning the model has correctly classified all instances in the dataset.

6. Macro Average:

- The macro average is the average of the precision, recall, and F1-score across all classes, and it is 1.00 in this case, indicating that the model is performing equally well across both classes.

7. Weighted Average:

- The weighted average also gives a score of 1.00, which accounts for the imbalance in the number of samples across classes (241 "TUMOR FREE" and 26 "WITH TUMOR"), but still shows perfect performance.

Conclusion:

The classification report shows that the model has performed excellently, achieving perfect scores (precision, recall, and F1-score of 1.00) for both classes. There are no misclassifications, and the model is accurately predicting both **"TUMOR FREE"** and **"WITH TUMOR"** instances.

ROC CURVE & AUC - AFTER HYPERPARAMETER TUNNING USING GRID SEARCH:

- **ROC (Receiver Operating Characteristic) Curve**:
  - A graphical plot that illustrates the performance of a binary classification model.
  - It shows the relationship between:
    - **True Positive Rate (TPR)**, also known as Recall, and
    - **False Positive Rate (FPR)**.
  - As the classification threshold changes, the ROC curve helps visualize how well the model distinguishes between classes.
- **AUC (Area Under the Curve)**:
  - Represents the area under the ROC curve.
  - **AUC Score** ranges from 0 to 1:
    - **1.0**: Perfect model (no false positives or false negatives).

        - **0.5**: The model is **no better than random guessing**.
        - **0.0**: The model is worse than random guessing.
    - A higher AUC indicates a better performing model.

Key Takeaways:

- **ROC Curve**: Shows how well the model can distinguish between classes at various threshold values.
- **AUC**: A single number summarizing the performance of the model, with values closer to 1 indicating a better model.
    - **An AUC of 0.5** means the model is performing at the level of random chance.

In [ ]:
```
from sklearn.metrics import roc_curve, auc

plt.figure(figsize=(8, 5))

for name, clf in classifiers.items():

    clf.fit(X_train, y_train)

    hp_y_probs = clf.predict_proba(X_test)[:, 1] if hasattr(clf, "predict_pr

    fpr, tpr, _ = roc_curve(y_test, hp_y_probs)

    plt.plot(fpr, tpr, label=f'{name} (AUC = {auc(fpr, tpr):.4f})')

plt.plot([0, 1], [0, 1], linestyle='--', color='black', label='Random Classi
plt.title('ROC Curve - After Hyperparameter Tuning Using Grid Search')
plt.xlabel('False Positive Rate')
plt.ylabel('True Positive Rate')
plt.legend(loc='lower right')
plt.show()
```

```
[LightGBM] [Info] Number of positive: 123, number of negative: 943
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000223 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
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[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.115385 -> initscore=-2.036
882
[LightGBM] [Info] Start training from score -2.036882
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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```
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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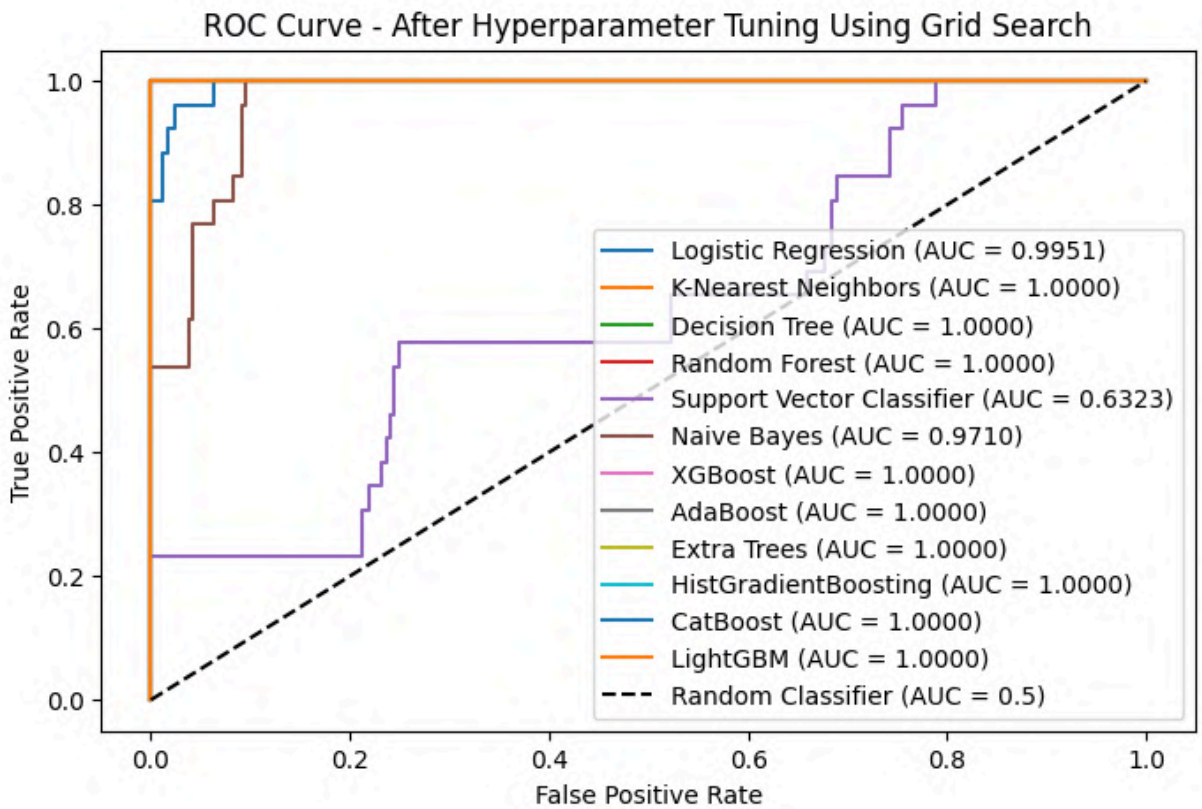

Model Evaluation and Comparison: TUMOR FREE vs. WITH TUMOR:

Overview:

The dataset was analyzed to classify samples into **TUMOR FREE** and **WITH TUMOR** categories using various machine learning models. Performance was evaluated based on **Accuracy** and **F1 Score**, both before and after hyperparameter tuning with Grid Search. The following analysis highlights the effectiveness of each model in predicting these two categories.

Evaluation Metrics:

- Given the dataset's imbalance, **F1 Score** is prioritized as the primary evaluation metric. This ensures a balance between precision (reducing false positives) and recall (reducing false negatives).
- Secondary metrics such as **Accuracy** are also included for reference but are less reliable due to the class imbalance.

Model Performance: Before Hyperparameter Tuning:

Model	Accuracy	F1 Score
K-Nearest Neighbors	1.000000	1.000000
Decision Tree	1.000000	1.000000
Random Forest	1.000000	1.000000
XGBoost	1.000000	1.000000
AdaBoost	1.000000	1.000000
Extra Trees	1.000000	1.000000
HistGradientBoosting	1.000000	1.000000
CatBoost	1.000000	1.000000
LightGBM	1.000000	1.000000
Logistic Regression	0.973783	0.862745
Naive Bayes	0.921348	0.655738
Support Vector Classifier (SVC)	0.902622	0.000000

Insights (Before Tuning):

1. Perfect Classifiers: Tree-based models and boosting algorithms (e.g., **Random Forest**, **CatBoost**, and **XGBoost**) perfectly classified TUMOR FREE and WITH TUMOR samples, achieving **Accuracy and F1 Scores of 1.0**.

2. Logistic Regression: Performed moderately well with **Accuracy = 0.973783** and **F1 Score = 0.862745**, indicating it captured the patterns reasonably but not perfectly.

3. Naive Bayes: Showed limitations with **Accuracy = 0.921348** and **F1 Score = 0.655738**, likely due to its assumptions of feature independence.

4. SVC: Failed to distinguish between the two categories effectively, with **Accuracy = 0.902622** and **F1 Score = 0.0**.

Model Performance: After Hyperparameter Tuning:

Model	Best Parameters	Accuracy	F1 Score
K-Nearest Neighbors	`{'algorithm': 'auto', 'n_neighbors': 3, 'weights':`	1.0	1.0

Model	Best Parameters	Accuracy	F1 Score
	`'uniform'}`		
Decision Tree	`{'max_depth': 5, 'min_samples_leaf': 1, 'min_samples_split': 2}`	1.0	1.0
Random Forest	`{'max_depth': 5, 'min_samples_leaf': 1, 'min_samples_split': 2}`	1.0	1.0
AdaBoost	`{'learning_rate': 0.1, 'n_estimators': 200}`	1.0	1.0
Extra Trees	`{'max_depth': 7, 'min_samples_leaf': 1, 'min_samples_split': 2}`	1.0	1.0
HistGradientBoosting	`{'learning_rate': 0.1, 'max_depth': 3, 'max_iter': 200}`	1.0	1.0
CatBoost	`{'depth': 3, 'iterations': 50, 'l2_leaf_reg': 3}`	1.0	1.0
LightGBM	`{'learning_rate': 0.1, 'max_depth': 3, 'n_estimators': 200}`	1.0	1.0
Logistic Regression	`{'C': 10, 'solver': 'liblinear'}`	0.992509	0.961538
Support Vector Classifier (SVC)	`{'C': 1, 'gamma': 'scale', 'kernel': 'linear'}`	0.985019	0.916667
Naive Bayes	`{}`	0.921348	0.655738

Insights (After Tuning):

1. Consistently Perfect Models:

- Models like **Decision Tree**, **Random Forest**, and **CatBoost** continued to perform perfectly (Accuracy and F1 Score = 1.0) after tuning, confirming their ability to handle TUMOR FREE vs. WITH TUMOR classification flawlessly.

2. K-Nearest Neighbors:

- After tuning (`n_neighbors=3`), KNN maintained its perfect performance, showing its strength in this task with local neighborhood-based classification.

3. Boosting Models:

- Boosting algorithms (**AdaBoost**, **HistGradientBoosting**, **LightGBM**) achieved perfect scores, emphasizing their ability to learn complex patterns.

4. Logistic Regression:

- Tuning improved its performance to an **Accuracy of 0.992509** and **F1 Score of 0.961538**, making it a viable simpler alternative for classification.

5. Support Vector Classifier:

- Post-tuning, SVC achieved **Accuracy of 0.985019** and **F1 Score of 0.916667**, a significant improvement from its initial poor performance.

6. Naive Bayes:

- Its performance remained unchanged due to a lack of hyperparameter flexibility, highlighting its limitations for this dataset.

TUMOR FREE vs. WITH TUMOR: Model Comparison:

- **Top Performers**: Tree-based models, boosting algorithms, and K-Nearest Neighbors were the best classifiers for distinguishing between TUMOR FREE and WITH TUMOR categories, achieving **perfect Accuracy and F1 Scores**.
- **Improved Models**: Logistic Regression and SVC showed significant improvements post-tuning, with Logistic Regression being a good alternative for interpretability.
- **Underperformer**: Naive Bayes struggled to effectively classify TUMOR FREE and WITH TUMOR samples, making it less suitable for this task.

Final Conclusion:

- **Classes:**
  - **0 (TUMOR FREE):** Individuals without a tumor.
  - **1 (WITH TUMOR):** Individuals with a tumor.
- For this imbalanced classification problem, **F1 Score** is the key metric.
- Tree-based models and boosting algorithms are the best choices, while Logistic Regression is a strong alternative for interpretable results.
- For **TUMOR FREE vs. WITH TUMOR classification**, models like **Random Forest**, **CatBoost**, and **K-Nearest Neighbors** are recommended due to their flawless performance.

- If interpretability is a priority, **Logistic Regression** is a strong alternative with high accuracy and reliability after hyperparameter tuning.
- **Naive Bayes** may not be ideal for this classification task due to its lower performance.

In [ ]:
```
data['person_neoplasm_cancer_status'].value_counts()
```

Out[ ]:

person_neoplasm_cancer_status	count
0	1184
1	149

dtype: int64

NEW DATA PREDICTION - 0 (TUMOR FREE):

In [ ]:
```
import numpy as np

filtered_data = X_train[y_train == 0]

column_values = {col: [] for col in X_train.columns}

for _ in range(1184):
    random_index = np.random.choice(filtered_data.index)
    row_data = X_train.loc[random_index]

    combined_result = ', '.join(f'{col}: {row_data[col]}' for col in row_dat
    print(combined_result)

    for col in row_data.index:
        column_values[col].append(row_data[col])

column_means = {col: np.mean(values) for col, values in column_values.items(

with_names = ', '.join(
    f'{col}: {round(mean_value, str(row_data[col])[::-1].find(".") if "." in
    for col, mean_value in column_means.items()
)

without_names = ', '.join(
    f'{round(mean_value, str(row_data[col])[::-1].find(".") if "." in str(rc
    for col, mean_value in column_means.items()
)

print("\nMean Value Output (With Names):")
print(with_names)
```

```python
print("\nMean Value Output (Without Names):")
print(without_names)
```

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ement: 10.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
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ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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nt: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 188.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ent: 18.0, height: 156.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 5.0,
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ment: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 218.0, stage_event_pathologic_stage: 1.
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urement: 5.0, height: 155.0, primary_pathology_neoplasm_histologic_grade: 1.
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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ed_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0

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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
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nt: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.

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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 0.0
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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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ry_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, pr
imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 14.0, days_to_birth: -19837.0, primary_pathology_lymph_node_examin
ed_count: 7.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 124.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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nt: 5.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 159.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 14.0, days_to_birth: -19837.0, primary_pathology_lymph_node_examin
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t: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem

ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
ompletion: 12.0, days_to_birth: -18229.0, primary_pathology_lymph_node_exami
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 14.0, days_to_birth: -19825.0, primary_pathology_lymph_node_examin
ed_count: 7.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 5.0,
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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nt: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 155.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 72.0, country_of_procurement: 9.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 63.0, country_of_procurement: 6.0,

stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
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ent: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 25.0, days_to_birth: -22266.0, primary_pathology_lymph_node_exam
ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 71.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
ompletion: 12.0, days_to_birth: -18139.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 13.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 3.0, days_to_birth: -21523.0, primary_pathology_lymph_node_examin
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nt: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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nt: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
tage_event_system_version: 2.0, weight: 75.0, country_of_procurement: 6.0, s
tage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
ompletion: 21.0, days_to_birth: -19993.0, primary_pathology_lymph_node_exami
ned_count: 10.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 0.0
bcr_patient_uuid: 126.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 1.0, weight: 55.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 18.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -18516.0, primary_pathology_lymph_node_exam
ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 78.0, tissue_source_site: 6.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 96.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 23.0, primary_pathology_residual_tumor: 0.0, pri
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primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 26.0, days_to_birth: -24013.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 16.0, tissue_source_site: 8.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 48.0, country_of_procurement: 3.0,
stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 25.0, days_to_birth: -21394.0, primary_pathology_lymph_node_exam
ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0

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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 57.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
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completion: 12.0, days_to_birth: -16155.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 117.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 59.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 160.0, primary_pathology_neoplasm_histologic_grade: 0.0
bcr_patient_uuid: 130.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 53.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 124.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_form_c
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nt: 5.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 0.0
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rmation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
0, stage_event_system_version: 1.0, weight: 71.0, country_of_procurement: 8.
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rm_completion: 26.0, days_to_birth: -19950.0, primary_pathology_lymph_node_e
xamined_count: 14.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
1.0
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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stage_event_tnm_categories: 52.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 49.0, country_of_procurement: 3.0,
stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 78.0, tissue_source_site: 6.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 94.0, country_of_procurement: 8.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 8.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 3.
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bcr_patient_uuid: 78.0, tissue_source_site: 6.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 96.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 23.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 26.0, days_to_birth: -24015.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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rm_completion: 30.0, days_to_birth: -24600.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 2.
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ation: 1.0, days_to_last_followup: 10.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 60.0, country_of_procurement: 9.0,
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completion: 12.0, days_to_birth: -17254.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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t: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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ment: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
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ent: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ned_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0

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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,
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ent: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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8.0, stage_event_tnm_categories: 6.0, primary_pathology_residual_tumor: 0.0,
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rm_completion: 12.0, days_to_birth: -23948.0, primary_pathology_lymph_node_e
xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 5.0, height: 182.0, primary_pathology_neoplasm_histologic_grade: 3.
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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urement: 7.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 2.
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mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0

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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
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ed_count: 7.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 3.0
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t: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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urement: 8.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 3.
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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rement: 3.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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mpletion: 14.0, days_to_birth: -19690.0, primary_pathology_lymph_node_examin
ed_count: 7.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 10.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 155.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ement: 10.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ompletion: 7.0, days_to_birth: -26575.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 182.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ned_count: 10.0, has_follow_ups_information: 1.0, state_province_of_procurem
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rmation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ent: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ent: 18.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
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nt: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ation: 1.0, days_to_last_followup: 10.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 160.0, primary_pathology_neoplasm_histologic_grade: 2.0
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t: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0

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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ement: 10.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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t: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
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ent: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 182.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s

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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ation: 0.0, days_to_last_followup: 124.0, stage_event_pathologic_stage: 1.0,
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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
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ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 2.0

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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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nt: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,
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ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 30.0, stage_event_pathologic_stage: 4.0,
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ned_count: 17.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 5.0,
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ation: 1.0, days_to_last_followup: 10.0, stage_event_pathologic_stage: 4.0,

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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 158.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p
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ent: 5.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 1.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 184.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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nt: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ement: 10.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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t: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure

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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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ed_count: 7.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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urement: 7.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 2.
0

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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.

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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
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mation: 1.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ation: 0.0, days_to_last_followup: 124.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_form_c
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nt: 5.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
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ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ned_count: 10.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 0.0
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rmation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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xamined_count: 14.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 102.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 67.0, country_of_procurement: 9.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ent: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 0.0
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urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
1.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ement: 10.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ent: 18.0, height: 160.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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nt: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 0.0
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1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
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1.0
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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rement: 3.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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nt: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p

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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 30.0, stage_event_pathologic_stage: 4.0,
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completion: 1.0, days_to_birth: -20525.0, primary_pathology_lymph_node_exami
ned_count: 17.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
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ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ompletion: 13.0, days_to_birth: -17076.0, primary_pathology_lymph_node_exami
ned_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 65.0, country_of_procurement: 9.0,
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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rm_completion: 30.0, days_to_birth: -24600.0, primary_pathology_lymph_node_e
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urement: 7.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 2.
0
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
stage_event_system_version: 2.0, weight: 81.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 5.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p
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ent: 5.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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8.0, stage_event_tnm_categories: 6.0, primary_pathology_residual_tumor: 0.0,
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rm_completion: 12.0, days_to_birth: -23885.0, primary_pathology_lymph_node_e
xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc

urement: 5.0, height: 185.0, primary_pathology_neoplasm_histologic_grade: 3.
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bcr_patient_uuid: 163.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.0

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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
tage_event_system_version: 2.0, weight: 75.0, country_of_procurement: 6.0, s
tage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ned_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procureme
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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nt: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
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0.0

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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 156.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
0.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 158.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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completion: 28.0, days_to_birth: -22029.0, primary_pathology_lymph_node_exam
ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 0.0
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urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
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1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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urement: 5.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 3.
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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rement: 3.0, height: 184.0, primary_pathology_neoplasm_histologic_grade: 1.0
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urement: 5.0, height: 185.0, primary_pathology_neoplasm_histologic_grade: 3.
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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urement: 8.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 3.
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 21.0, days_to_birth: -25370.0, primary_pathology_lymph_node_exam
ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
tage_event_system_version: 2.0, weight: 68.0, country_of_procurement: 6.0, s
tage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
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ned_count: 10.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 0.0
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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 14.0, days_to_birth: -19690.0, primary_pathology_lymph_node_examin
ed_count: 7.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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urement: 5.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 3.
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 2.0
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tage_event_tnm_categories: 48.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 25.0, days_to_birth: -26282.0, primary_pathology_lymph_node_exami
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ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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urement: 5.0, height: 182.0, primary_pathology_neoplasm_histologic_grade: 3.
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,

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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 188.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 25.0, days_to_birth: -21360.0, primary_pathology_lymph_node_exam
ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 23.0, tissue_source_site: 5.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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stage_event_tnm_categories: 28.0, primary_pathology_residual_tumor: 0.0, pri
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completion: 28.0, days_to_birth: -30888.0, primary_pathology_lymph_node_exam
ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 188.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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completion: 28.0, days_to_birth: -22066.0, primary_pathology_lymph_node_exam
ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ement: 10.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ement: 10.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ompletion: 21.0, days_to_birth: -19959.0, primary_pathology_lymph_node_exami
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 10.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 156.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
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nt: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem

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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 160.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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nt: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ment: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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urement: 7.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 2.
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ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
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ment: 9.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 5.0, height: 185.0, primary_pathology_neoplasm_histologic_grade: 3.
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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completion: 30.0, days_to_birth: -25557.0, primary_pathology_lymph_node_exam
ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 117.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_
completion: 12.0, days_to_birth: -21054.0, primary_pathology_lymph_node_exam

ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 0.0
bcr_patient_uuid: 175.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 61.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
stage_event_system_version: 2.0, weight: 76.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 28.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 28.0, days_to_birth: -30997.0, primary_pathology_lymph_node_exam
ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 68.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
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completion: 12.0, days_to_birth: -21287.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 56.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
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completion: 12.0, days_to_birth: -21135.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
0, stage_event_system_version: 2.0, weight: 52.0, country_of_procurement: 8.
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primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.
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rm_completion: 30.0, days_to_birth: -24600.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 2.

0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -19074.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 61.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 72.0, tissue_source_site: 5.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 2.0, weight: 82.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 28.0, days_to_birth: -31556.0, primary_pathology_lymph_node_exam
ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 94.0, tissue_source_site: 16.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
0, stage_event_system_version: 2.0, weight: 65.0, country_of_procurement: 8.
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rimary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.
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rm_completion: 28.0, days_to_birth: -18056.0, primary_pathology_lymph_node_e
xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
0.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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completion: 12.0, days_to_birth: -16205.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 62.0, country_of_procurement: 6.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_
completion: 18.0, days_to_birth: -21271.0, primary_pathology_lymph_node_exam
ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0

bcr_patient_uuid: 124.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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completion: 12.0, days_to_birth: -16253.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 160.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 54.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 56.0, country_of_procurement: 9.0,
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completion: 13.0, days_to_birth: -21160.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 117.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 160.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 91.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 23.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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tage_event_system_version: 1.0, weight: 72.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 3.0, days_to_birth: -21462.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
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ation: 0.0, days_to_last_followup: 13.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ation: 0.0, days_to_last_followup: 124.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ompletion: 12.0, days_to_birth: -19927.0, primary_pathology_lymph_node_exami
ned_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 5.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ation: 0.0, days_to_last_followup: 13.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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nt: 5.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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rement: 3.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 67.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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urement: 7.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 2.
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem

ent: 18.0, height: 184.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 8.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 3.
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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ned_count: 10.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 0.0

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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 12.0, days_to_birth: -17917.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ompletion: 12.0, days_to_birth: -28107.0, primary_pathology_lymph_node_exami
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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8.0, stage_event_tnm_categories: 6.0, primary_pathology_residual_tumor: 0.0,
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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 5.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 3.
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
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ent: 5.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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rement: 3.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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rimary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.

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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: 13.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 160.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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mpletion: 14.0, days_to_birth: -19758.0, primary_pathology_lymph_node_examin
ed_count: 7.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 2.0
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 12.0, days_to_birth: -17974.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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nt: 18.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 109.0, tissue_source_site: 1.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure

ment: 0.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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nt: 5.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,
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ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
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ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 1.0
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p

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ent: 5.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 3.0
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 12.0, days_to_birth: -17956.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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rement: 3.0, height: 184.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 2.0
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
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nt: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ent: 18.0, height: 155.0, primary_pathology_neoplasm_histologic_grade: 2.0

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ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
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ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 8.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 3.
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 6.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 218.0, stage_event_pathologic_stage: 1.
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
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ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 7.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ent: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 188.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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8.0, stage_event_tnm_categories: 8.0, primary_pathology_residual_tumor: 0.0,
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rm_completion: 1.0, days_to_birth: -25328.0, primary_pathology_lymph_node_ex
amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 3.0

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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 143.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,

stage_event_system_version: 2.0, weight: 75.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -21120.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 0.0
bcr_patient_uuid: 124.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 57.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -16185.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 16.0, tissue_source_site: 8.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 53.0, country_of_procurement: 3.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 25.0, days_to_birth: -21417.0, primary_pathology_lymph_node_exam
ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 90.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 65.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
ompletion: 30.0, days_to_birth: -24572.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 155.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 46.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
tage_event_system_version: 2.0, weight: 83.0, country_of_procurement: 5.0, s
tage_event_tnm_categories: 48.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 25.0, days_to_birth: -26245.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 93.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 67.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
ompletion: 7.0, days_to_birth: -26582.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 35.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 64.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, prim

ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
ompletion: 12.0, days_to_birth: -22045.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 43.0, tissue_source_site: 12.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
0, stage_event_system_version: 2.0, weight: 94.0, country_of_procurement: 8.
0, stage_event_tnm_categories: 16.0, primary_pathology_residual_tumor: 0.0,
primary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.
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rm_completion: 2.0, days_to_birth: -28059.0, primary_pathology_lymph_node_ex
amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 184.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 155.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 1.0, weight: 65.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 30.0, days_to_birth: -25557.0, primary_pathology_lymph_node_exam
ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 140.0, tissue_source_site: 5.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
stage_event_system_version: 1.0, weight: 70.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 35.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2007.0, day_of_form_
completion: 28.0, days_to_birth: -22150.0, primary_pathology_lymph_node_exam
ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 92.0, tissue_source_site: 13.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
0, stage_event_system_version: 2.0, weight: 60.0, country_of_procurement: 8.
0, stage_event_tnm_categories: 28.0, primary_pathology_residual_tumor: 0.0,
primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.
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rm_completion: 30.0, days_to_birth: -24561.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 2.
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bcr_patient_uuid: 171.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 63.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_
completion: 12.0, days_to_birth: -21865.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 163.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
stage_event_system_version: 1.0, weight: 61.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 31.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,

primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_
completion: 12.0, days_to_birth: -26914.0, primary_pathology_lymph_node_exam
ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 50.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 69.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
ompletion: 12.0, days_to_birth: -18092.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 72.0, tissue_source_site: 5.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 2.0, weight: 83.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 28.0, days_to_birth: -31556.0, primary_pathology_lymph_node_exam
ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 109.0, tissue_source_site: 1.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
0, stage_event_system_version: 2.0, weight: 96.0, country_of_procurement: 8.
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rm_completion: 1.0, days_to_birth: -25425.0, primary_pathology_lymph_node_ex
amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 40.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
stage_event_system_version: 2.0, weight: 58.0, country_of_procurement: 2.0,
stage_event_tnm_categories: 52.0, primary_pathology_residual_tumor: 0.0, pri
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primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_
completion: 13.0, days_to_birth: -18364.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 56.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
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completion: 12.0, days_to_birth: -13437.0, primary_pathology_lymph_node_exam
ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ompletion: 12.0, days_to_birth: -18187.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 117.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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completion: 12.0, days_to_birth: -21160.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 61.0, country_of_procurement: 9.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
ompletion: 30.0, days_to_birth: -19294.0, primary_pathology_lymph_node_exami
ned_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 74.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
tage_event_system_version: 2.0, weight: 62.0, country_of_procurement: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 25.0, days_to_birth: -22784.0, primary_pathology_lymph_node_exami
ned_count: 5.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 16.0, tissue_source_site: 8.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 49.0, country_of_procurement: 3.0,
stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 25.0, days_to_birth: -21415.0, primary_pathology_lymph_node_exam
ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0

bcr_patient_uuid: 112.0, tissue_source_site: 2.0, has_new_tumor_events_information: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, stage_event_system_version: 2.0, weight: 84.0, country_of_procurement: 5.0, stage_event_tnm_categories: 29.0, primary_pathology_residual_tumor: 0.0, primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_completion: 25.0, days_to_birth: -22333.0, primary_pathology_lymph_node_examined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurement: 18.0, height: 182.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 145.0, tissue_source_site: 5.0, has_new_tumor_events_information: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.0, stage_event_system_version: 2.0, weight: 109.0, country_of_procurement: 8.0, stage_event_tnm_categories: 6.0, primary_pathology_residual_tumor: 0.0, primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 1.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_form_completion: 12.0, days_to_birth: -23920.0, primary_pathology_lymph_node_examined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_procurement: 5.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 30.0, tissue_source_site: 7.0, has_new_tumor_events_information: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0, stage_event_system_version: 1.0, weight: 56.0, country_of_procurement: 9.0, stage_event_tnm_categories: 31.0, primary_pathology_residual_tumor: 0.0, primary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_form_completion: 13.0, days_to_birth: -16990.0, primary_pathology_lymph_node_examined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurement: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 102.0, tissue_source_site: 7.0, has_new_tumor_events_information: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, stage_event_system_version: 1.0, weight: 68.0, country_of_procurement: 9.0, stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_completion: 7.0, days_to_birth: -21856.0, primary_pathology_lymph_node_examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurement: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 178.0, tissue_source_site: 16.0, has_new_tumor_events_information: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.0, stage_event_system_version: 1.0, weight: 75.0, country_of_procurement: 8.0, stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, primary_pathology_number_of_lymphnodes_positive_by_he: 3.0, vital_status: 1.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2009.0, day_of_form_completion: 26.0, days_to_birth: -19840.0, primary_pathology_lymph_node_examined_count: 14.0, has_follow_ups_information: 1.0, state_province_of_procurement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 124.0, tissue_source_site: 7.0, has_new_tumor_events_information: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, stage_event_system_version: 1.0, weight: 57.0, country_of_procurement: 9.0, stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_form_completion: 12.0, days_to_birth: -16155.0, primary_pathology_lymph_node_examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurement: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0

bcr_patient_uuid: 175.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 58.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 7.0, days_to_birth: -17922.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 91.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 57.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
ompletion: 12.0, days_to_birth: -28117.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 8.0, tissue_source_site: 7.0, has_new_tumor_events_informa
tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
age_event_system_version: 1.0, weight: 58.0, country_of_procurement: 9.0, st
age_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, prima
ry_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, pr
imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 12.0, days_to_birth: -18000.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 92.0, tissue_source_site: 13.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
0, stage_event_system_version: 2.0, weight: 50.0, country_of_procurement: 8.
0, stage_event_tnm_categories: 28.0, primary_pathology_residual_tumor: 0.0,
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0, primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_fo
rm_completion: 30.0, days_to_birth: -24561.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 2.
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 63.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -22968.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 0.0
bcr_patient_uuid: 72.0, tissue_source_site: 5.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 2.0, weight: 80.0, country_of_procurement: 8.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,
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completion: 28.0, days_to_birth: -31408.0, primary_pathology_lymph_node_exam
ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 72.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 3.0, days_to_birth: -21462.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 0.0
bcr_patient_uuid: 130.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 57.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -22886.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 66.0, country_of_procurement: 9.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
ompletion: 30.0, days_to_birth: -19254.0, primary_pathology_lymph_node_exami
ned_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 155.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 1.0, weight: 64.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 30.0, days_to_birth: -25609.0, primary_pathology_lymph_node_exam
ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 36.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 10.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 58.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 72.0, tissue_source_site: 5.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 2.0, weight: 84.0, country_of_procurement: 8.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 28.0, days_to_birth: -31430.0, primary_pathology_lymph_node_exam
ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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rm_completion: 30.0, days_to_birth: -24658.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 2.
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ation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 55.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
ompletion: 12.0, days_to_birth: -28196.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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tion: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, st
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ry_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, pr
imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 14.0, days_to_birth: -19755.0, primary_pathology_lymph_node_examin
ed_count: 7.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 2.0, weight: 82.0, country_of_procurement: 8.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 60.0, country_of_procurement: 9.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 30.0, stage_event_pathologic_stage: 4.0,
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completion: 1.0, days_to_birth: -20533.0, primary_pathology_lymph_node_exami
ned_count: 17.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 38.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 30.0, stage_event_pathologic_stage: 4.0,
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completion: 1.0, days_to_birth: -20483.0, primary_pathology_lymph_node_exami
ned_count: 17.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -22844.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ation: 0.0, days_to_last_followup: 30.0, stage_event_pathologic_stage: 4.0,
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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nt: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 124.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 12.0, days_to_birth: -17839.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p
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ent: 5.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 1.0
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
mpletion: 12.0, days_to_birth: -17985.0, primary_pathology_lymph_node_examin
ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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rm_completion: 2.0, days_to_birth: -28125.0, primary_pathology_lymph_node_ex
amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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nt: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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completion: 25.0, days_to_birth: -22349.0, primary_pathology_lymph_node_exam
ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem

ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 82.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 61.0, country_of_procurement: 6.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ompletion: 30.0, days_to_birth: -19405.0, primary_pathology_lymph_node_exami
ned_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 30.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 69.0, country_of_procurement: 6.0,
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ned_count: 17.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 2.
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 59.0, country_of_procurement: 6.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0

bcr_patient_uuid: 132.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
stage_event_system_version: 2.0, weight: 81.0, country_of_procurement: 8.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 182.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 143.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 184.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 36.0, stage_event_pathologic_stage: 4.0,

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rmation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 5.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 3.
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ent: 18.0, height: 157.0, primary_pathology_neoplasm_histologic_grade: 2.0
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure

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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ment: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 3.0
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urement: 5.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ment: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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rement: 3.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ment: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 68.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -21175.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 0.0
bcr_patient_uuid: 124.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -16185.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 155.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 1.0, weight: 65.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 30.0, days_to_birth: -25557.0, primary_pathology_lymph_node_exam
ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 38.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 30.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 74.0, country_of_procurement: 6.0,
stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 1.0, days_to_birth: -20529.0, primary_pathology_lymph_node_exami
ned_count: 17.0, has_follow_ups_information: 1.0, state_province_of_procurem

ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 2.0, weight: 85.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,
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completion: 28.0, days_to_birth: -31431.0, primary_pathology_lymph_node_exam
ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 70.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
ompletion: 12.0, days_to_birth: -21982.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 2.0
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
stage_event_system_version: 2.0, weight: 81.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 5.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 5.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 57.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 69.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
ompletion: 30.0, days_to_birth: -19405.0, primary_pathology_lymph_node_exami
ned_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 12.0, days_to_birth: -21030.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 18.0, days_to_birth: -21368.0, primary_pathology_lymph_node_exam
ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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completion: 12.0, days_to_birth: -21851.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 66.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
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completion: 7.0, days_to_birth: -21863.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 16.0, tissue_source_site: 8.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 536.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 51.0, country_of_procurement: 3.0,
stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_
completion: 25.0, days_to_birth: -21398.0, primary_pathology_lymph_node_exam
ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 61.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 13.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 55.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 43.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_
completion: 18.0, days_to_birth: -13105.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 34.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0, s
tage_event_system_version: 1.0, weight: 60.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 31.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ompletion: 12.0, days_to_birth: -22286.0, primary_pathology_lymph_node_exami
ned_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ompletion: 12.0, days_to_birth: -18187.0, primary_pathology_lymph_node_exami
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ent: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
stage_event_system_version: 2.0, weight: 59.0, country_of_procurement: 2.0,
stage_event_tnm_categories: 52.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 74.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ompletion: 25.0, days_to_birth: -22774.0, primary_pathology_lymph_node_exami
ned_count: 5.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 60.0, country_of_procurement: 9.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 30.0, days_to_birth: -20539.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 41.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
tage_event_system_version: 2.0, weight: 69.0, country_of_procurement: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ompletion: 21.0, days_to_birth: -19853.0, primary_pathology_lymph_node_exami
ned_count: 10.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 0.0
bcr_patient_uuid: 41.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
tage_event_system_version: 2.0, weight: 67.0, country_of_procurement: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
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ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 258.0, stage_event_pathologic_stage: 5.
0, stage_event_system_version: 2.0, weight: 59.0, country_of_procurement: 8.
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rm_completion: 30.0, days_to_birth: -24485.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 2.
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bcr_patient_uuid: 169.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0,
stage_event_system_version: 1.0, weight: 58.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 31.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 82.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 60.0, country_of_procurement: 6.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 18.0, days_to_birth: -21273.0, primary_pathology_lymph_node_exam
ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 166.0, tissue_source_site: 2.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 2.0, weight: 67.0, country_of_procurement: 5.0,
stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 18.0, days_to_birth: -21256.0, primary_pathology_lymph_node_exam
ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 117.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
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completion: 12.0, days_to_birth: -21183.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 0.0
bcr_patient_uuid: 23.0, tissue_source_site: 5.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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nt: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0,
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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ent: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 59.0, country_of_procurement: 9.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 162.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 30.0, stage_event_pathologic_stage: 4.0,
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nt: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 5.0,
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
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nt: 5.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0

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mation: 0.0, days_to_last_followup: 5.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 163.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ement: 10.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s

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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
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ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: -4.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 0.0, days_to_last_followup: 6.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
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ed_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procuremen
t: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
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ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ation: 0.0, days_to_last_followup: 211.0, stage_event_pathologic_stage: 2.0,
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ined_count: 8.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 160.0, primary_pathology_neoplasm_histologic_grade: 0.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0

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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.

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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p
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tion: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, st
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imary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_co
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ed_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 169.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
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ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 2.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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nt: 5.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
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completion: 25.0, days_to_birth: -21417.0, primary_pathology_lymph_node_exam
ined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 9.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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tion: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 1.0,
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 1.0, p
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ent: 5.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 64.0, country_of_procurement: 9.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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ent: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.

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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 167.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
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amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 185.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 6.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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nt: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 1.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
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mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
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completion: 26.0, days_to_birth: -24132.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 72.0, tissue_source_site: 5.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 265.0, stage_event_pathologic_stage: 5.0,
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stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 11.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
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mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
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stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 183.0, primary_pathology_neoplasm_histologic_grade: 0.0
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ation: 0.0, days_to_last_followup: 4.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 0.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 8.0, height: 164.0, primary_pathology_neoplasm_histologic_grade: 3.
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ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
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ation: 1.0, days_to_last_followup: 10.0, stage_event_pathologic_stage: 4.0,
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ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 156.0, primary_pathology_neoplasm_histologic_grade: 2.0
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mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
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ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 3.0
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 6.0,
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ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
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ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
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amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
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mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
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urement: 5.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 3.
0
bcr_patient_uuid: 57.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 69.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
ompletion: 30.0, days_to_birth: -19405.0, primary_pathology_lymph_node_exami
ned_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 168.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 166.0, tissue_source_site: 2.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 2.0, weight: 64.0, country_of_procurement: 5.0,
stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 21.0, days_to_birth: -25373.0, primary_pathology_lymph_node_exam
ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 133.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 58.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_
completion: 30.0, days_to_birth: -20521.0, primary_pathology_lymph_node_exam

ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 40.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
stage_event_system_version: 2.0, weight: 59.0, country_of_procurement: 2.0,
stage_event_tnm_categories: 52.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_
completion: 13.0, days_to_birth: -18426.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 13.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 52.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_form_c
ompletion: 11.0, days_to_birth: -24411.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 109.0, tissue_source_site: 1.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 189.0, stage_event_pathologic_stage: 1.
0, stage_event_system_version: 2.0, weight: 100.0, country_of_procurement:
8.0, stage_event_tnm_categories: 8.0, primary_pathology_residual_tumor: 0.0,
primary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.
0, primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_fo
rm_completion: 1.0, days_to_birth: -25455.0, primary_pathology_lymph_node_ex
amined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procur
ement: 10.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 126.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 1.0, weight: 51.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 18.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_form_
completion: 12.0, days_to_birth: -18544.0, primary_pathology_lymph_node_exam
ined_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 166.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 145.0, tissue_source_site: 5.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
0, stage_event_system_version: 2.0, weight: 113.0, country_of_procurement:
8.0, stage_event_tnm_categories: 6.0, primary_pathology_residual_tumor: 0.0,
primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 1.
0, primary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_fo
rm_completion: 12.0, days_to_birth: -24032.0, primary_pathology_lymph_node_e
xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 5.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 3.
0
bcr_patient_uuid: 184.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
stage_event_system_version: 1.0, weight: 76.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 12.0, days_to_birth: -23969.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure

ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 124.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 66.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_form_
completion: 12.0, days_to_birth: -16254.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 128.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 72.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_
completion: 12.0, days_to_birth: -16199.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 133.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 61.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 13.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_
completion: 30.0, days_to_birth: -20536.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 78.0, tissue_source_site: 6.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 245.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 91.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 23.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 26.0, days_to_birth: -24172.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 0.0, height: 165.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 36.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 10.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 60.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 27.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_
completion: 12.0, days_to_birth: -17254.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 112.0, tissue_source_site: 2.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0,
stage_event_system_version: 2.0, weight: 77.0, country_of_procurement: 5.0,
stage_event_tnm_categories: 29.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 25.0, days_to_birth: -22381.0, primary_pathology_lymph_node_exam
ined_count: 3.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 184.0, tissue_source_site: 7.0, has_new_tumor_events_infor

mation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 3.0,
stage_event_system_version: 1.0, weight: 67.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 12.0, days_to_birth: -24069.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 140.0, tissue_source_site: 5.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
stage_event_system_version: 1.0, weight: 74.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 35.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2007.0, day_of_form_
completion: 28.0, days_to_birth: -22097.0, primary_pathology_lymph_node_exam
ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 40.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 34.0, stage_event_pathologic_stage: 7.0,
stage_event_system_version: 2.0, weight: 63.0, country_of_procurement: 2.0,
stage_event_tnm_categories: 52.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_
completion: 13.0, days_to_birth: -18325.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 161.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 50.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 3.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 69.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_form_c
ompletion: 12.0, days_to_birth: -18092.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 178.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 140.0, tissue_source_site: 5.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 79.0, stage_event_pathologic_stage: 6.0,
stage_event_system_version: 1.0, weight: 72.0, country_of_procurement: 8.0,
stage_event_tnm_categories: 35.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2007.0, day_of_form_
completion: 28.0, days_to_birth: -22090.0, primary_pathology_lymph_node_exam
ined_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 3.0
bcr_patient_uuid: 120.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 2.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 1.0, weight: 66.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 14.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 12.0, days_to_birth: -19105.0, primary_pathology_lymph_node_exam
ined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procure
ment: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 43.0, tissue_source_site: 12.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 267.0, stage_event_pathologic_stage: 7.
0, stage_event_system_version: 2.0, weight: 86.0, country_of_procurement: 8.

0, stage_event_tnm_categories: 16.0, primary_pathology_residual_tumor: 0.0,
primary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.
0, primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_fo
rm_completion: 2.0, days_to_birth: -28139.0, primary_pathology_lymph_node_ex
amined_count: 16.0, has_follow_ups_information: 1.0, state_province_of_procu
rement: 3.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 38.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 30.0, stage_event_pathologic_stage: 4.0,
stage_event_system_version: 2.0, weight: 69.0, country_of_procurement: 6.0,
stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_
completion: 1.0, days_to_birth: -20537.0, primary_pathology_lymph_node_exami
ned_count: 17.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 155.0, tissue_source_site: 7.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 5.0,
stage_event_system_version: 1.0, weight: 57.0, country_of_procurement: 9.0,
stage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0,
primary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_
completion: 30.0, days_to_birth: -25699.0, primary_pathology_lymph_node_exam
ined_count: 2.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 171.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 32.0, tissue_source_site: 7.0, has_new_tumor_events_inform
ation: 1.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 4.0, s
tage_event_system_version: 1.0, weight: 60.0, country_of_procurement: 9.0, s
tage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2013.0, day_of_form_c
ompletion: 30.0, days_to_birth: -22754.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 172.0, primary_pathology_neoplasm_histologic_grade: 2.0
bcr_patient_uuid: 94.0, tissue_source_site: 16.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 437.0, stage_event_pathologic_stage: 5.
0, stage_event_system_version: 2.0, weight: 66.0, country_of_procurement: 8.
0, stage_event_tnm_categories: 9.0, primary_pathology_residual_tumor: 0.0, p
rimary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.
0, primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_fo
rm_completion: 28.0, days_to_birth: -18075.0, primary_pathology_lymph_node_e
xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade:
0.0
bcr_patient_uuid: 145.0, tissue_source_site: 5.0, has_new_tumor_events_infor
mation: 0.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 5.
0, stage_event_system_version: 2.0, weight: 116.0, country_of_procurement:
8.0, stage_event_tnm_categories: 6.0, primary_pathology_residual_tumor: 0.0,
primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 1.
0, primary_pathology_year_of_initial_pathologic_diagnosis: 2010.0, day_of_fo
rm_completion: 12.0, days_to_birth: -24061.0, primary_pathology_lymph_node_e
xamined_count: 10.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 5.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.
0
bcr_patient_uuid: 46.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
tage_event_system_version: 2.0, weight: 83.0, country_of_procurement: 5.0, s

```
tage_event_tnm_categories: 48.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 25.0, days_to_birth: -26245.0, primary_pathology_lymph_node_exami
ned_count: 12.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 173.0, primary_pathology_neoplasm_histologic_grade: 1.0

Mean Value Output (With Names):
bcr_patient_uuid: 90.4, tissue_source_site: 6.2, has_new_tumor_events_inform
ation: 0.4, days_to_last_followup: 69.0, stage_event_pathologic_stage: 4.4,
stage_event_system_version: 1.5, weight: 68.5, country_of_procurement: 7.9,
stage_event_tnm_categories: 20.9, primary_pathology_residual_tumor: 0.0, pri
mary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.1,
primary_pathology_year_of_initial_pathologic_diagnosis: 2011.6, day_of_form_
completion: 15.8, days_to_birth: -22355.5, primary_pathology_lymph_node_exam
ined_count: 9.9, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 15.8, height: 172.2, primary_pathology_neoplasm_histologic_grade: 1.4

Mean Value Output (Without Names):
90.4, 6.2, 0.4, 69.0, 4.4, 1.5, 68.5, 7.9, 20.9, 0.0, 1.0, 0.1, 2011.6, 15.
8, -22355.5, 9.9, 1.0, 15.8, 172.2, 1.4
```

In [ ]:
```
new_data_0 = pd.DataFrame([[90.0, 6.0, 0.0, 69.0, 4.0, 2.0, 69.0, 8.0, 21.0,
new_data_0
```

Out[ ]:

	bcr_patient_uuid	tissue_source site	has_new_tumor_events_information	da
0	90.0	6.0	0.0	

WITHOUT HYPERPARAMETER TUNING FOR 0 (TUMOR FREE):

In [ ]:
```
classifiers = {
    'K-Nearest Neighbors': KNeighborsClassifier(),
    'Decision Tree': DecisionTreeClassifier(),
    'Random Forest': RandomForestClassifier(),
    'XGBoost': XGBClassifier(),
    'AdaBoost': AdaBoostClassifier(),
    'Extra Trees': ExtraTreesClassifier(),
    'HistGradientBoosting': HistGradientBoostingClassifier(),
    'CatBoost': CatBoostClassifier(verbose=0),
    'LightGBM': LGBMClassifier()
}

for name, clf in classifiers.items():

    clf.fit(X_train, y_train)

    print(f"\n{name} Classifier Without Hyperparameter Tuning for TUMOR FREE
```

```
K-Nearest Neighbors Classifier Without Hyperparameter Tuning for TUMOR FREE
(0) : [0]

Decision Tree Classifier Without Hyperparameter Tuning for TUMOR FREE (0) :
[0]

Random Forest Classifier Without Hyperparameter Tuning for TUMOR FREE (0) :
[0]

XGBoost Classifier Without Hyperparameter Tuning for TUMOR FREE (0) : [0]

AdaBoost Classifier Without Hyperparameter Tuning for TUMOR FREE (0) : [0]

Extra Trees Classifier Without Hyperparameter Tuning for TUMOR FREE (0) :
[0]

HistGradientBoosting Classifier Without Hyperparameter Tuning for TUMOR FREE
(0) : [0]

CatBoost Classifier Without Hyperparameter Tuning for TUMOR FREE (0) : [0]
[LightGBM] [Info] Number of positive: 123, number of negative: 943
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000248 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.115385 -> initscore=-2.036
882
[LightGBM] [Info] Start training from score -2.036882
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

LightGBM Classifier Without Hyperparameter Tuning for TUMOR FREE (0) : [0]
```

WITH HYPERPARAMETER TUNING - GRID SEARCH FOR 0 (TUMOR FREE):

In [ ]:

```python
hp_grids = {
    'K-Nearest Neighbors': {
        'n_neighbors': [3, 5, 7, 9],
        'weights': ['uniform', 'distance'],
        'algorithm': ['auto', 'ball_tree', 'kd_tree', 'brute']
    },
    'Decision Tree': {
        'max_depth': [3, 5, 7, 10],
        'min_samples_split': [2, 5, 10],
        'min_samples_leaf': [1, 2, 4]
    },
    'Random Forest': {
        'n_estimators': [50, 100, 200],
        'max_depth': [3, 5, 7],
        'min_samples_split': [2, 5, 10],
        'min_samples_leaf': [1, 2, 4]
    },
    'XGBoost': {
        'n_estimators': [50, 100, 200],
        'learning_rate': [0.01, 0.1, 0.2],
        'max_depth': [3, 5, 7],
        'subsample': [0.8, 1.0]
    },
    'AdaBoost': {
        'n_estimators': [50, 100, 200],
        'learning_rate': [0.01, 0.1, 1.0]
    },
```

```
    'Extra Trees': {
        'n_estimators': [50, 100, 200],
        'max_depth': [3, 5, 7],
        'min_samples_split': [2, 5, 10],
        'min_samples_leaf': [1, 2, 4]
    },
    'HistGradientBoosting': {
        'max_iter': [100, 200, 300],
        'max_depth': [3, 5, 7],
        'learning_rate': [0.01, 0.1, 0.2],
        'min_samples_leaf': [1, 2, 4]
    },
    'CatBoost': {
        'iterations': [50, 100, 200],
        'depth': [3, 5, 7],
        'learning_rate': [0.01, 0.1, 0.2],
        'l2_leaf_reg': [1, 3, 5]
    },
    'LightGBM': {
        'n_estimators': [50, 100, 200],
        'learning_rate': [0.01, 0.1, 0.2],
        'max_depth': [3, 5, 7],
        'num_leaves': [31, 50, 70]
    }
}

for name, clf in classifiers.items():
    try:
        print(f"\nPerforming grid search for {name}...")

        hp_grid_search = GridSearchCV(clf, hp_grids[name], cv=5, scoring='f1
        hp_grid_search.fit(X_train, y_train)
        hp_best_model = hp_grid_search.best_estimator_
        hp_y_pred = hp_best_model.predict(new_data_0)

        print(f"{name} Classifier With Hyperparameter Tuning Grid Search for

        tumor_status = hp_y_pred
        if tumor_status[0] == 0:
            print("The patient is TUMOR FREE, indicating no tumor was detect
        else:
            print("The patient has WITH TUMOR, indicating the presence of a

    except Exception as e:
        print(f"\nError encountered for classifier {name}: {e}")
```

```
Performing grid search for K-Nearest Neighbors...
Fitting 5 folds for each of 32 candidates, totalling 160 fits
K-Nearest Neighbors Classifier With Hyperparameter Tuning Grid Search for TU
MOR FREE (0) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.

Performing grid search for Decision Tree...
Fitting 5 folds for each of 36 candidates, totalling 180 fits
Decision Tree Classifier With Hyperparameter Tuning Grid Search for TUMOR FR
EE (0) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.

Performing grid search for Random Forest...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
Random Forest Classifier With Hyperparameter Tuning Grid Search for TUMOR FR
EE (0) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.

Performing grid search for XGBoost...

Error encountered for classifier XGBoost: 'super' object has no attribute '_
_sklearn_tags__'

Performing grid search for AdaBoost...
Fitting 5 folds for each of 9 candidates, totalling 45 fits
AdaBoost Classifier With Hyperparameter Tuning Grid Search for TUMOR FREE
(0) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.

Performing grid search for Extra Trees...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
Extra Trees Classifier With Hyperparameter Tuning Grid Search for TUMOR FREE
(0) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.

Performing grid search for HistGradientBoosting...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
HistGradientBoosting Classifier With Hyperparameter Tuning Grid Search for T
UMOR FREE (0) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.

Performing grid search for CatBoost...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
CatBoost Classifier With Hyperparameter Tuning Grid Search for TUMOR FREE
(0) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.

Performing grid search for LightGBM...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
```

```
[LightGBM] [Info] Number of positive: 123, number of negative: 943
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000221 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.115385 -> initscore=-2.036
882
[LightGBM] [Info] Start training from score -2.036882
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
LightGBM Classifier With Hyperparameter Tuning Grid Search for TUMOR FREE
(0) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.
```

NEW DATA PREDICTION - 1 (WITH TUMOR):

In [ ]:
```
filtered_data = X_train[y_train == 1]
```

```
column_values = {col: [] for col in X_train.columns}

for _ in range(149):
    random_index = np.random.choice(filtered_data.index)
    row_data = X_train.loc[random_index]

    combined_result = ', '.join(f'{col}: {row_data[col]}' for col in row_dat
    print(combined_result)

    for col in row_data.index:
        column_values[col].append(row_data[col])

column_means = {col: np.mean(values) for col, values in column_values.items(

with_names = ', '.join(
    f'{col}: {round(mean_value, str(row_data[col])[::-1].find(".") if "." in
    for col, mean_value in column_means.items()
)

without_names = ', '.join(
    f'{round(mean_value, str(row_data[col])[::-1].find(".") if "." in str(ro
    for col, mean_value in column_means.items()
)

print("\nMean Value Output (With Names):")
print(with_names)

print("\nMean Value Output (Without Names):")
print(without_names)
```

bcr_patient_uuid: 68.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 1.0, stage_event_pathologic_stage: 5.0, s
tage_event_system_version: 2.0, weight: 89.0, country_of_procurement: 6.0, s
tage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 11.0, days_to_birth: -17904.0, primary_pathology_lymph_node_exami
ned_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 75.0, tissue_source_site: 13.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 135.0, stage_event_pathologic_stage: 4.
0, stage_event_system_version: 2.0, weight: 101.0, country_of_procurement:
8.0, stage_event_tnm_categories: 39.0, primary_pathology_residual_tumor: 0.
0, primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status:
0.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_
form_completion: 30.0, days_to_birth: -27007.0, primary_pathology_lymph_node
_examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pr
ocurement: 7.0, height: 188.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 123.0, tissue_source_site: 10.0, has_new_tumor_events_info
rmation: 1.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 4.
0, stage_event_system_version: 2.0, weight: 103.0, country_of_procurement:
8.0, stage_event_tnm_categories: 53.0, primary_pathology_residual_tumor: 0.
0, primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status:
1.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_
form_completion: 10.0, days_to_birth: -21224.0, primary_pathology_lymph_node
_examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pr
ocurement: 14.0, height: 177.0, primary_pathology_neoplasm_histologic_grade:
2.0
bcr_patient_uuid: 157.0, tissue_source_site: 10.0, has_new_tumor_events_info
rmation: 1.0, days_to_last_followup: 447.0, stage_event_pathologic_stage: 4.
0, stage_event_system_version: 2.0, weight: 104.0, country_of_procurement:
8.0, stage_event_tnm_categories: 29.0, primary_pathology_residual_tumor: 0.
0, primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status:
0.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_
form_completion: 7.0, days_to_birth: -10167.0, primary_pathology_lymph_node_
examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pro
curement: 14.0, height: 183.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 83.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
tage_event_system_version: 2.0, weight: 74.0, country_of_procurement: 5.0, s
tage_event_tnm_categories: 48.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 25.0, days_to_birth: -19537.0, primary_pathology_lymph_node_exami
ned_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 184.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 68.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 1.0, stage_event_pathologic_stage: 5.0, s
tage_event_system_version: 2.0, weight: 82.0, country_of_procurement: 6.0, s
tage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 11.0, days_to_birth: -17814.0, primary_pathology_lymph_node_exami
ned_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procurem

ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 83.0, tissue_source_site: 2.0, has_new_tumor_events_inform
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2.0
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2.0
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1.0
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2.0
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rm_completion: 30.0, days_to_birth: -26623.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 170.0, primary_pathology_neoplasm_histologic_grade: 2.
0
bcr_patient_uuid: 125.0, tissue_source_site: 13.0, has_new_tumor_events_info

rmation: 1.0, days_to_last_followup: 248.0, stage_event_pathologic_stage: 4.
0, stage_event_system_version: 2.0, weight: 91.0, country_of_procurement: 8.
0, stage_event_tnm_categories: 29.0, primary_pathology_residual_tumor: 0.0,
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rm_completion: 30.0, days_to_birth: -26606.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 2.
0
bcr_patient_uuid: 83.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 0.0, stage_event_pathologic_stage: 7.0, s
tage_event_system_version: 2.0, weight: 79.0, country_of_procurement: 5.0, s
tage_event_tnm_categories: 48.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 25.0, days_to_birth: -19476.0, primary_pathology_lymph_node_exami
ned_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 1.0
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mation: 1.0, days_to_last_followup: 135.0, stage_event_pathologic_stage: 4.
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8.0, stage_event_tnm_categories: 39.0, primary_pathology_residual_tumor: 0.
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0.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_
form_completion: 30.0, days_to_birth: -27151.0, primary_pathology_lymph_node
_examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pr
ocurement: 7.0, height: 189.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 107.0, tissue_source_site: 10.0, has_new_tumor_events_info
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0, stage_event_system_version: 2.0, weight: 86.0, country_of_procurement: 8.
0, stage_event_tnm_categories: 26.0, primary_pathology_residual_tumor: 0.0,
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rm_completion: 24.0, days_to_birth: -20854.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 19.0, height: 177.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 125.0, tissue_source_site: 13.0, has_new_tumor_events_info
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0, stage_event_system_version: 2.0, weight: 88.0, country_of_procurement: 8.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 179.0, primary_pathology_neoplasm_histologic_grade: 2.
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bcr_patient_uuid: 157.0, tissue_source_site: 10.0, has_new_tumor_events_info
rmation: 1.0, days_to_last_followup: 447.0, stage_event_pathologic_stage: 4.
0, stage_event_system_version: 2.0, weight: 110.0, country_of_procurement:
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form_completion: 7.0, days_to_birth: -10164.0, primary_pathology_lymph_node_
examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pro

curement: 14.0, height: 183.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 125.0, tissue_source_site: 13.0, has_new_tumor_events_info
rmation: 1.0, days_to_last_followup: 248.0, stage_event_pathologic_stage: 4.
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0, primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_fo
rm_completion: 30.0, days_to_birth: -26655.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 2.
0
bcr_patient_uuid: 83.0, tissue_source_site: 2.0, has_new_tumor_events_inform
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ary_pathology_number_of_lymphnodes_positive_by_he: 0.0, vital_status: 0.0, p
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ompletion: 25.0, days_to_birth: -19483.0, primary_pathology_lymph_node_exami
ned_count: 4.0, has_follow_ups_information: 1.0, state_province_of_procureme
nt: 18.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 68.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 1.0, stage_event_pathologic_stage: 5.0, s
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tage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 11.0, days_to_birth: -17855.0, primary_pathology_lymph_node_exami
ned_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 180.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 157.0, tissue_source_site: 10.0, has_new_tumor_events_info
rmation: 1.0, days_to_last_followup: 447.0, stage_event_pathologic_stage: 4.
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form_completion: 7.0, days_to_birth: -10262.0, primary_pathology_lymph_node_
examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pro
curement: 14.0, height: 174.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 68.0, tissue_source_site: 2.0, has_new_tumor_events_inform
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 11.0, days_to_birth: -17814.0, primary_pathology_lymph_node_exami
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ent: 18.0, height: 177.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 68.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 1.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
rimary_pathology_year_of_initial_pathologic_diagnosis: 2012.0, day_of_form_c
ompletion: 11.0, days_to_birth: -17941.0, primary_pathology_lymph_node_exami

ned_count: 15.0, has_follow_ups_information: 1.0, state_province_of_procurem
ent: 18.0, height: 184.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 68.0, tissue_source_site: 2.0, has_new_tumor_events_inform
ation: 0.0, days_to_last_followup: 1.0, stage_event_pathologic_stage: 5.0, s
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tage_event_tnm_categories: 17.0, primary_pathology_residual_tumor: 0.0, prim
ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ent: 18.0, height: 184.0, primary_pathology_neoplasm_histologic_grade: 1.0
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urement: 7.0, height: 176.0, primary_pathology_neoplasm_histologic_grade: 2.
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ation: 0.0, days_to_last_followup: 1.0, stage_event_pathologic_stage: 5.0, s
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ary_pathology_number_of_lymphnodes_positive_by_he: 2.0, vital_status: 0.0, p
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ent: 18.0, height: 181.0, primary_pathology_neoplasm_histologic_grade: 1.0
bcr_patient_uuid: 121.0, tissue_source_site: 13.0, has_new_tumor_events_info
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0, stage_event_system_version: 2.0, weight: 80.0, country_of_procurement: 8.
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primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 1.
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rm_completion: 30.0, days_to_birth: -20459.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 3.
0
bcr_patient_uuid: 121.0, tissue_source_site: 13.0, has_new_tumor_events_info
rmation: 1.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 4.
0, stage_event_system_version: 2.0, weight: 79.0, country_of_procurement: 8.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 7.0, height: 174.0, primary_pathology_neoplasm_histologic_grade: 3.
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mation: 1.0, days_to_last_followup: 135.0, stage_event_pathologic_stage: 4.
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8.0, stage_event_tnm_categories: 39.0, primary_pathology_residual_tumor: 0.
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0.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_

form_completion: 30.0, days_to_birth: -27110.0, primary_pathology_lymph_node
_examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pr
ocurement: 7.0, height: 189.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 157.0, tissue_source_site: 10.0, has_new_tumor_events_info
rmation: 1.0, days_to_last_followup: 447.0, stage_event_pathologic_stage: 4.
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form_completion: 7.0, days_to_birth: -10164.0, primary_pathology_lymph_node_
examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pro
curement: 14.0, height: 183.0, primary_pathology_neoplasm_histologic_grade:
1.0
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rmation: 1.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 4.
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urement: 7.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.
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bcr_patient_uuid: 157.0, tissue_source_site: 10.0, has_new_tumor_events_info
rmation: 1.0, days_to_last_followup: 447.0, stage_event_pathologic_stage: 4.
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form_completion: 7.0, days_to_birth: -10183.0, primary_pathology_lymph_node_
examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pro
curement: 14.0, height: 178.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 123.0, tissue_source_site: 10.0, has_new_tumor_events_info
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 14.0, height: 172.0, primary_pathology_neoplasm_histologic_grade:
2.0
bcr_patient_uuid: 157.0, tissue_source_site: 10.0, has_new_tumor_events_info
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examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pro
curement: 14.0, height: 175.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 123.0, tissue_source_site: 10.0, has_new_tumor_events_info
rmation: 1.0, days_to_last_followup: 105.0, stage_event_pathologic_stage: 4.

0, stage_event_system_version: 2.0, weight: 98.0, country_of_procurement: 8.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 14.0, height: 172.0, primary_pathology_neoplasm_histologic_grade:
2.0
bcr_patient_uuid: 107.0, tissue_source_site: 10.0, has_new_tumor_events_info
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0, stage_event_system_version: 2.0, weight: 91.0, country_of_procurement: 8.
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xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 19.0, height: 175.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 121.0, tissue_source_site: 13.0, has_new_tumor_events_info
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urement: 7.0, height: 175.0, primary_pathology_neoplasm_histologic_grade: 3.
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bcr_patient_uuid: 75.0, tissue_source_site: 13.0, has_new_tumor_events_infor
mation: 1.0, days_to_last_followup: 135.0, stage_event_pathologic_stage: 4.
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0.0, primary_pathology_year_of_initial_pathologic_diagnosis: 2011.0, day_of_
form_completion: 30.0, days_to_birth: -27089.0, primary_pathology_lymph_node
_examined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_pr
ocurement: 7.0, height: 187.0, primary_pathology_neoplasm_histologic_grade:
1.0
bcr_patient_uuid: 123.0, tissue_source_site: 10.0, has_new_tumor_events_info
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rm_completion: 10.0, days_to_birth: -21246.0, primary_pathology_lymph_node_e
xamined_count: 12.0, has_follow_ups_information: 1.0, state_province_of_proc
urement: 14.0, height: 175.0, primary_pathology_neoplasm_histologic_grade:
2.0

Mean Value Output (With Names):
bcr_patient_uuid: 108.3, tissue_source_site: 8.7, has_new_tumor_events_infor
mation: 0.6, days_to_last_followup: 122.5, stage_event_pathologic_stage: 4.
6, stage_event_system_version: 2.0, weight: 89.3, country_of_procurement: 7.
3, stage_event_tnm_categories: 36.6, primary_pathology_residual_tumor: 0.0,
primary_pathology_number_of_lymphnodes_positive_by_he: 1.0, vital_status: 0.
3, primary_pathology_year_of_initial_pathologic_diagnosis: 2011.7, day_of_fo

```
rm_completion: 20.3, days_to_birth: -20316.4, primary_pathology_lymph_node_e
xamined_count: 11.2, has_follow_ups_information: 1.0, state_province_of_proc
urement: 13.6, height: 178.0, primary_pathology_neoplasm_histologic_grade:
1.5

Mean Value Output (Without Names):
108.3, 8.7, 0.6, 122.5, 4.6, 2.0, 89.3, 7.3, 36.6, 0.0, 1.0, 0.3, 2011.7, 2
0.3, -20316.4, 11.2, 1.0, 13.6, 178.0, 1.5
```

In [ ]:
```
new_data_1 = pd.DataFrame([[108.3, 8.7, 0.6, 122.5, 4.6, 2.0, 89.3, 7.3, 36.
new_data_1
```

Out[ ]:

	bcr_patient_uuid	tissue_source_site	has_new_tumor_events_information	da
0	108.3	8.7	0.6	

WITHOUT HYPERPARAMETER TUNING FOR 1 (WITH TUMOR):

In [ ]:
```
classifiers = {
    'K-Nearest Neighbors': KNeighborsClassifier(),
    'Decision Tree': DecisionTreeClassifier(),
    'Random Forest': RandomForestClassifier(),
    'XGBoost': XGBClassifier(),
    'AdaBoost': AdaBoostClassifier(),
    'Extra Trees': ExtraTreesClassifier(),
    'HistGradientBoosting': HistGradientBoostingClassifier(),
    'CatBoost': CatBoostClassifier(verbose=0),
    'LightGBM': LGBMClassifier()
}

for name, clf in classifiers.items():

    clf.fit(X_train, y_train)

    print(f"\n{name} Classifier Without Hyperparameter Tuning for WITH TUMOR
```

```
K-Nearest Neighbors Classifier Without Hyperparameter Tuning for WITH TUMOR
(1) : [1]

Decision Tree Classifier Without Hyperparameter Tuning for WITH TUMOR (1) :
[0]

Random Forest Classifier Without Hyperparameter Tuning for WITH TUMOR (1) :
[0]

XGBoost Classifier Without Hyperparameter Tuning for WITH TUMOR (1) : [1]

AdaBoost Classifier Without Hyperparameter Tuning for WITH TUMOR (1) : [1]

Extra Trees Classifier Without Hyperparameter Tuning for WITH TUMOR (1) :
[1]

HistGradientBoosting Classifier Without Hyperparameter Tuning for WITH TUMOR
(1) : [1]

CatBoost Classifier Without Hyperparameter Tuning for WITH TUMOR (1) : [0]
[LightGBM] [Info] Number of positive: 123, number of negative: 943
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000221 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.115385 -> initscore=-2.036
882
[LightGBM] [Info] Start training from score -2.036882
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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```

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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

LightGBM Classifier Without Hyperparameter Tuning for WITH TUMOR (1) : [1]
```

WITH HYPERPARAMETER TUNING - GRID SEARCH FOR 1 (WITH TUMOR):

In [ ]:

```python
hp_grids = {
    'K-Nearest Neighbors': {
        'n_neighbors': [3, 5, 7, 9],
        'weights': ['uniform', 'distance'],
        'algorithm': ['auto', 'ball_tree', 'kd_tree', 'brute']
    },
    'Decision Tree': {
        'max_depth': [3, 5, 7, 10],
        'min_samples_split': [2, 5, 10],
        'min_samples_leaf': [1, 2, 4]
    },
    'Random Forest': {
        'n_estimators': [50, 100, 200],
        'max_depth': [3, 5, 7],
        'min_samples_split': [2, 5, 10],
        'min_samples_leaf': [1, 2, 4]
    },
    'XGBoost': {
        'n_estimators': [50, 100, 200],
        'learning_rate': [0.01, 0.1, 0.2],
        'max_depth': [3, 5, 7],
        'subsample': [0.8, 1.0]
    },
    'AdaBoost': {
        'n_estimators': [50, 100, 200],
        'learning_rate': [0.01, 0.1, 1.0]
    },
```

```
    'Extra Trees': {
        'n_estimators': [50, 100, 200],
        'max_depth': [3, 5, 7],
        'min_samples_split': [2, 5, 10],
        'min_samples_leaf': [1, 2, 4]
    },
    'HistGradientBoosting': {
        'max_iter': [100, 200, 300],
        'max_depth': [3, 5, 7],
        'learning_rate': [0.01, 0.1, 0.2],
        'min_samples_leaf': [1, 2, 4]
    },
    'CatBoost': {
        'iterations': [50, 100, 200],
        'depth': [3, 5, 7],
        'learning_rate': [0.01, 0.1, 0.2],
        'l2_leaf_reg': [1, 3, 5]
    },
    'LightGBM': {
        'n_estimators': [50, 100, 200],
        'learning_rate': [0.01, 0.1, 0.2],
        'max_depth': [3, 5, 7],
        'num_leaves': [31, 50, 70]
    }
}

for name, clf in classifiers.items():
    try:
        print(f"\nPerforming grid search for {name}...")

        hp_grid_search = GridSearchCV(clf, hp_grids[name], cv=5, scoring='f1
        hp_grid_search.fit(X_train, y_train)
        hp_best_model = hp_grid_search.best_estimator_
        hp_y_pred = hp_best_model.predict(new_data_1)

        print(f"{name} Classifier With Hyperparameter Tuning Grid Search for

        tumor_status = hp_y_pred
        if tumor_status[0] == 1:
            print("The patient has WITH TUMOR, indicating the presence of a
        else:
            print("The patient is TUMOR FREE, indicating no tumor was detect

    except Exception as e:
        print(f"\nError encountered for classifier {name}: {e}")
```

```
Performing grid search for K-Nearest Neighbors...
Fitting 5 folds for each of 32 candidates, totalling 160 fits
K-Nearest Neighbors Classifier With Hyperparameter Tuning Grid Search for WI
TH TUMOR (1) : [1]
The patient has WITH TUMOR, indicating the presence of a tumor during the ob
servation period.

Performing grid search for Decision Tree...
Fitting 5 folds for each of 36 candidates, totalling 180 fits
Decision Tree Classifier With Hyperparameter Tuning Grid Search for WITH TUM
OR (1) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.

Performing grid search for Random Forest...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
Random Forest Classifier With Hyperparameter Tuning Grid Search for WITH TUM
OR (1) : [1]
The patient has WITH TUMOR, indicating the presence of a tumor during the ob
servation period.

Performing grid search for XGBoost...

Error encountered for classifier XGBoost: 'super' object has no attribute '_
_sklearn_tags__'

Performing grid search for AdaBoost...
Fitting 5 folds for each of 9 candidates, totalling 45 fits
AdaBoost Classifier With Hyperparameter Tuning Grid Search for WITH TUMOR
(1) : [1]
The patient has WITH TUMOR, indicating the presence of a tumor during the ob
servation period.

Performing grid search for Extra Trees...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
Extra Trees Classifier With Hyperparameter Tuning Grid Search for WITH TUMOR
(1) : [1]
The patient has WITH TUMOR, indicating the presence of a tumor during the ob
servation period.

Performing grid search for HistGradientBoosting...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
HistGradientBoosting Classifier With Hyperparameter Tuning Grid Search for W
ITH TUMOR (1) : [1]
The patient has WITH TUMOR, indicating the presence of a tumor during the ob
servation period.

Performing grid search for CatBoost...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
CatBoost Classifier With Hyperparameter Tuning Grid Search for WITH TUMOR
(1) : [1]
The patient has WITH TUMOR, indicating the presence of a tumor during the ob
servation period.

Performing grid search for LightGBM...
Fitting 5 folds for each of 81 candidates, totalling 405 fits
```

```
[LightGBM] [Info] Number of positive: 123, number of negative: 943
[LightGBM] [Info] Auto-choosing row-wise multi-threading, the overhead of te
sting was 0.000223 seconds.
You can set `force_row_wise=true` to remove the overhead.
And if memory is not enough, you can set `force_col_wise=true`.
[LightGBM] [Info] Total Bins 562
[LightGBM] [Info] Number of data points in the train set: 1066, number of us
ed features: 18
[LightGBM] [Info] [binary:BoostFromScore]: pavg=0.115385 -> initscore=-2.036
882
[LightGBM] [Info] Start training from score -2.036882
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
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[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
[LightGBM] [Warning] No further splits with positive gain, best gain: -inf
LightGBM Classifier With Hyperparameter Tuning Grid Search for WITH TUMOR
(1) : [0]
The patient is TUMOR FREE, indicating no tumor was detected during the obser
vation period.
```

UNSUPERVISED LEARNING - K-Means:

In [216…

```
data
```

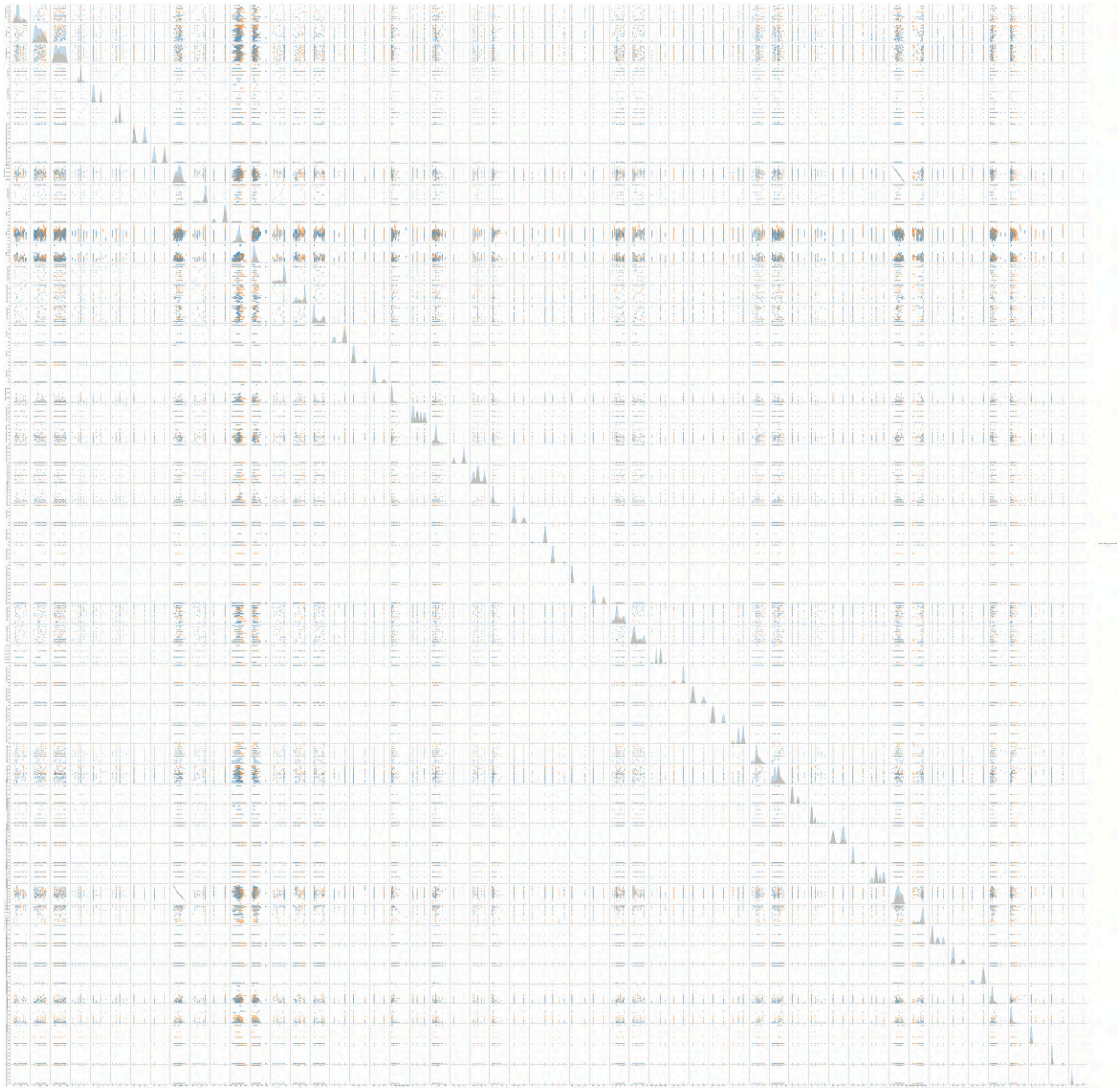
Out[216…

	tissue_source_site	patient_id	bcr_patient_uuid	icd_o_3_site	icd_o_3_his
0	0	162	2	3	
1	0	163	76	3	
2	0	164	62	3	
3	0	165	153	3	
4	0	166	173	3	
...	...	...	...	...	
3980	17	121	134	4	
3981	17	122	15	1	
3982	17	174	20	3	
3983	17	181	24	3	
3984	18	157	183	3	

3985 rows × 55 columns

In [ ]:

```
sns.pairplot(data, hue='person_neoplasm_cancer_status')
plt.show()
```



In [217…

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3985 entries, 0 to 3984
Data columns (total 55 columns):
 #   Column                                                      Non-Null
Count  Dtype
---  ------                                                      --------
------  -----
 0   tissue_source_site                                          3985 non
-null   object
 1   patient_id                                                  3985 non
-null   object
 2   bcr_patient_uuid                                            3985 non
-null   object
 3   icd_o_3_site                                                3985 non
-null   object
 4   icd_o_3_histology                                           3985 non
-null   object
 5   icd_10                                                      3985 non
-null   object
 6   tissue_prospective_collection_indicator                     3985 non
-null   int64
 7   tissue_retrospective_collection_indicator                   3985 non
-null   int64
 8   days_to_birth                                               3985 non
-null   int64
 9   country_of_birth                                            3985 non
-null   int64
 10  gender                                                      3985 non
-null   object
 11  height                                                      3985 non
-null   float64
 12  weight                                                      3985 non
-null   float64
 13  country_of_procurement                                      3985 non
-null   int64
 14  state_province_of_procurement                               3985 non
-null   int64
 15  city_of_procurement                                         3985 non
-null   int64
 16  race_list                                                   3985 non
-null   int64
 17  other_dx                                                    3985 non
-null   object
 18  person_neoplasm_cancer_status                               3985 non
-null   int64
 19  vital_status                                                3985 non
-null   object
 20  days_to_last_followup                                       3985 non
-null   float64
 21  tobacco_smoking_history                                     3985 non
-null   float64
 22  number_pack_years_smoked                                    3985 non
-null   float64
 23  alcohol_history_documented                                  3985 non
-null   int64
 24  frequency_of_alcohol_consumption                            3985 non
```

```
-null   float64
 25  amount_of_alcohol_consumption_per_day                          3985 non
-null   float64
 26  reflux_history                                                 3985 non
-null   int64
 27  initial_diagnosis_by                                           3985 non
-null   int64
 28  barretts_esophagus                                             3985 non
-null   int64
 29  history_of_esophageal_cancer                                   3985 non
-null   int64
 30  has_new_tumor_events_information                               3985 non
-null   object
 31  day_of_form_completion                                         3985 non
-null   int64
 32  month_of_form_completion                                       3985 non
-null   int64
 33  year_of_form_completion                                        3985 non
-null   int64
 34  has_follow_ups_information                                     3985 non
-null   object
 35  has_drugs_information                                          3985 non
-null   object
 36  has_radiations_information                                     3985 non
-null   object
 37  stage_event_system_version                                     3985 non
-null   object
 38  stage_event_pathologic_stage                                   3985 non
-null   int64
 39  stage_event_tnm_categories                                     3985 non
-null   object
 40  primary_pathology_esophageal_tumor_cental_location             3985 non
-null   int64
 41  primary_pathology_esophageal_tumor_involvement_sites           3985 non
-null   int64
 42  primary_pathology_histological_type                            3985 non
-null   object
 43  primary_pathology_columnar_metaplasia_present                  3985 non
-null   int64
 44  primary_pathology_neoplasm_histologic_grade                    3985 non
-null   object
 45  primary_pathology_age_at_initial_pathologic_diagnosis          3985 non
-null   int64
 46  primary_pathology_year_of_initial_pathologic_diagnosis         3985 non
-null   float64
 47  primary_pathology_initial_pathologic_diagnosis_method          3985 non
-null   int64
 48  primary_pathology_lymph_node_metastasis_radiographic_evidence  3985 non
-null   int64
 49  primary_pathology_primary_lymph_node_presentation_assessment   3985 non
-null   int64
 50  primary_pathology_lymph_node_examined_count                    3985 non
-null   float64
 51  primary_pathology_number_of_lymphnodes_positive_by_he          3985 non
-null   float64
 52  primary_pathology_residual_tumor                               3985 non
```

```
-null   int64
 53  primary_pathology_radiation_therapy                          3985 non
-null   int64
 54  primary_pathology_postoperative_rx_tx                        3985 non
-null   int64
dtypes: float64(10), int64(28), object(17)
memory usage: 1.7+ MB
```

In [218…

```
object_columns = data.select_dtypes(include=['object', 'int']).columns

for col in object_columns:
    try:
        data[col] = data[col].astype(float)
    except ValueError as e:
        print(f"Could not convert column {col}: {e}")
```

In [252…

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3985 entries, 0 to 3984
Data columns (total 55 columns):
 #   Column                                                      Non-Null
Count  Dtype
---  ------                                                      --------
------  -----
 0   tissue_source_site                                          3985 non
-null   float64
 1   patient_id                                                  3985 non
-null   float64
 2   bcr_patient_uuid                                            3985 non
-null   float64
 3   icd_o_3_site                                                3985 non
-null   float64
 4   icd_o_3_histology                                           3985 non
-null   float64
 5   icd_10                                                      3985 non
-null   float64
 6   tissue_prospective_collection_indicator                     3985 non
-null   float64
 7   tissue_retrospective_collection_indicator                   3985 non
-null   float64
 8   days_to_birth                                               3985 non
-null   float64
 9   country_of_birth                                            3985 non
-null   float64
 10  gender                                                      3985 non
-null   float64
 11  height                                                      3985 non
-null   float64
 12  weight                                                      3985 non
-null   float64
 13  country_of_procurement                                      3985 non
-null   float64
 14  state_province_of_procurement                               3985 non
-null   float64
 15  city_of_procurement                                         3985 non
-null   float64
 16  race_list                                                   3985 non
-null   float64
 17  other_dx                                                    3985 non
-null   float64
 18  person_neoplasm_cancer_status                               3985 non
-null   float64
 19  vital_status                                                3985 non
-null   float64
 20  days_to_last_followup                                       3985 non
-null   float64
 21  tobacco_smoking_history                                     3985 non
-null   float64
 22  number_pack_years_smoked                                    3985 non
-null   float64
 23  alcohol_history_documented                                  3985 non
-null   float64
 24  frequency_of_alcohol_consumption                            3985 non
```

```
-null   float64
 25  amount_of_alcohol_consumption_per_day                          3985 non
-null   float64
 26  reflux_history                                                 3985 non
-null   float64
 27  initial_diagnosis_by                                           3985 non
-null   float64
 28  barretts_esophagus                                             3985 non
-null   float64
 29  history_of_esophageal_cancer                                   3985 non
-null   float64
 30  has_new_tumor_events_information                               3985 non
-null   float64
 31  day_of_form_completion                                         3985 non
-null   float64
 32  month_of_form_completion                                       3985 non
-null   float64
 33  year_of_form_completion                                        3985 non
-null   float64
 34  has_follow_ups_information                                     3985 non
-null   float64
 35  has_drugs_information                                          3985 non
-null   float64
 36  has_radiations_information                                     3985 non
-null   float64
 37  stage_event_system_version                                     3985 non
-null   float64
 38  stage_event_pathologic_stage                                   3985 non
-null   float64
 39  stage_event_tnm_categories                                     3985 non
-null   float64
 40  primary_pathology_esophageal_tumor_cental_location             3985 non
-null   float64
 41  primary_pathology_esophageal_tumor_involvement_sites           3985 non
-null   float64
 42  primary_pathology_histological_type                            3985 non
-null   float64
 43  primary_pathology_columnar_metaplasia_present                  3985 non
-null   float64
 44  primary_pathology_neoplasm_histologic_grade                    3985 non
-null   float64
 45  primary_pathology_age_at_initial_pathologic_diagnosis          3985 non
-null   float64
 46  primary_pathology_year_of_initial_pathologic_diagnosis         3985 non
-null   float64
 47  primary_pathology_initial_pathologic_diagnosis_method          3985 non
-null   float64
 48  primary_pathology_lymph_node_metastasis_radiographic_evidence  3985 non
-null   float64
 49  primary_pathology_primary_lymph_node_presentation_assessment   3985 non
-null   float64
 50  primary_pathology_lymph_node_examined_count                    3985 non
-null   float64
 51  primary_pathology_number_of_lymphnodes_positive_by_he          3985 non
-null   float64
 52  primary_pathology_residual_tumor                               3985 non
```

```
-null   float64
 53  primary_pathology_radiation_therapy                          3985 non
-null   float64
 54  primary_pathology_postoperative_rx_tx                        3985 non
-null   float64
dtypes: float64(55)
memory usage: 1.7 MB
```

In [220…

```
for col in data.columns:
  print(f'\n{col}: {data[col].unique()}')
```

```
tissue_source_site: [ 0.  1.  2.  3.  4.  5.  6.  7.  8.  9. 10. 11. 12. 13.
14. 15. 16. 17.
 18.]

patient_id: [162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173.  8
2.  83.
   0.   1.   2.   3.   4.   5.  52.  53.  54.  55.  56.  58.  60.  64.
  81.  91. 140. 155. 156.  69.  70.  71.  72.  73.  74.  75. 149. 150.
 151. 152. 153. 154.  85.   6.   7.   8.   9.  10.  11.  35.  36.  37.
  38.  39.  40.  41.  42.  43.  44.  45.  46.  47.  48.  49.  50.  51.
 100. 101. 102. 103. 104. 105. 106. 107. 123. 124. 125. 126. 127. 128.
 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139.  57.  84.  12.
  13.  14.  15.  16.  17.  18.  19.  20.  21.  22.  23.  24.  25.  26.
  27.  28.  29.  30.  31.  32.  33.  34.  61.  62.  63.  92.  93.  94.
  95.  96. 118. 119. 120. 158. 159. 160. 161.  59.  76.  77.  67.  68.
  78.  79.  80.  86.  87.  88.  89. 145. 146. 147. 148.  90.  65.  66.
  97.  98.  99. 182. 183. 184. 108. 109. 110. 111. 112. 113. 114. 115.
 116. 117. 141. 175. 176. 177. 178. 179. 180. 142. 143. 144. 121. 122.
 174. 181. 157.]

bcr_patient_uuid: [  2.  76.  62. 153. 173.  64. 122.  67.   4. 144. 176. 17
0.  65. 109.
  84.   9.  46.  83. 112.  74.  68. 106.  38. 111. 179. 115. 166.  60.
  41.  40. 113.  61.  82.  96.  31. 138.   1.  25.  53. 136. 104.  12.
 135.  85.  51. 116. 174. 118.  73.   3.  22.  21.  27.   7.  11. 172.
  39. 148. 149.  19. 145.  54. 103.  56.   6. 159. 101. 127.  14.  87.
  23.  72. 140. 137. 181.  48. 177. 180.  71. 168.  88.  59.  45. 110.
  52. 108. 119.  97.  18. 162.  29.  70. 154. 141. 158.  78. 164.  13.
 124. 130. 126.  36. 132.  47. 171. 100.   8. 163. 128.  91.  35. 117.
  34. 169.  50. 184. 120. 143.  30. 150.  66.  49. 160.  28. 102.  93.
  81. 175. 133.  57.  90. 146. 105.  32. 155.  16.   5. 142. 123. 165.
  95. 157.  86.  37.  89.  80. 129.  17. 151. 107.  63.  98.  43.  69.
 152. 121.  33.  92. 125.  75.  77. 161.  44.  55. 156. 131.  79.  10.
 139. 182.  26.   0. 167.  99.  42. 114. 147. 178.  58.  94. 134.  15.
  20.  24. 183.]

icd_o_3_site: [3. 4. 2. 0. 1. 5.]

icd_o_3_histology: [3. 0. 1. 5. 2. 4.]

icd_10: [2. 3. 1. 0. 4.]

tissue_prospective_collection_indicator: [0. 1.]

tissue_retrospective_collection_indicator: [1. 0.]

days_to_birth: [-24487. -24328. -16197. ... -20861. -19438. -23820.]

country_of_birth: [7. 3. 4. 2. 6. 0. 1. 5.]

gender: [1. 0.]

height: [183. 178. 188. 189. 180. 173. 179. 185. 170. 168. 165. 176. 169. 18
2.
 172. 174. 162. 166. 177. 152. 197. 155. 175. 164. 163. 150. 157. 161.
 158. 160. 167. 171. 151. 192. 184. 159. 187. 181. 149. 153. 186. 147.
```

```
 154. 190. 191. 156. 199. 146. 193. 200. 145. 202. 196. 148. 194. 195.
 201.]

weight: [ 95.  74.  91. 100.  70.  80.  85.  77.  82.  83.  67. 102.  48.  7
3.
  76.  66.  86.  78.  61.  63.  64.  69.  50.  58.  53.  59.  62.  90.
  65. 110.  72.  89.  52. 121.  88. 193. 127. 114. 111.  71.  84.  98.
  81.  94.  96.  60.  87.  97. 103.  57.  54.  68.  56.  47.  49.  51.
  79. 106. 133.  55.  75.  46. 105. 107.  99. 117. 116.  93.  92. 192.
 132. 112. 104. 113. 101. 137.  44.  43. 118. 126. 109. 138. 123. 195.
 122. 131. 119. 197. 128. 120. 188. 130. 108.  45. 191. 115.  42. 124.
 129.  41. 125. 196. 135. 194. 198. 136. 189. 134.]

country_of_procurement: [4. 8. 5. 6. 9. 2. 3. 0. 1. 7.]

state_province_of_procurement: [16. 10. 18.  2.  9.  8.  4.  5.  6.  0.  1.
14. 13. 19. 15.  3.  7. 11.
 17. 12.]

city_of_procurement: [19. 17. 18. 23. 13. 10.  7. 11.  1. 22. 15.  0.  2. 2
5. 24. 16. 12.  3.
  8. 26. 14.  9.  6.  4. 27. 21. 20.  5.]

race_list: [2. 0. 1.]

other_dx: [0. 1.]

person_neoplasm_cancer_status: [1. 0.]

vital_status: [1. 0.]

days_to_last_followup: [ 1.050e+02  2.340e+02  1.890e+02  0.000e+00  1.000e+
00  8.000e+00
  3.000e+01  1.600e+01  1.100e+01  4.000e+00  3.400e+01  1.400e+01
  1.300e+01 -4.000e+00  3.714e+03  1.837e+03  1.638e+03  1.098e+03
  7.730e+02  4.710e+02  7.050e+02  7.690e+02  5.500e+02  5.350e+02
  9.600e+01  2.720e+02  1.070e+02  1.120e+02  1.020e+02  5.930e+02
  2.670e+02  1.950e+02  1.240e+02  1.010e+02  2.180e+02  9.350e+02
  8.820e+02  2.110e+02  2.650e+02  7.900e+01  2.250e+02  1.140e+02
  9.200e+01  1.688e+03  1.094e+03  5.010e+02  4.120e+02  4.020e+02
  1.650e+02  4.080e+02  8.250e+02  2.450e+02  2.660e+02  2.000e+00
  5.000e+00  1.000e+01  3.000e+00  6.000e+00  3.600e+01  5.360e+02
  1.150e+02  4.470e+02  9.000e+02  1.641e+03  2.200e+01  4.260e+02
  1.460e+02  2.580e+02  2.480e+02  1.350e+02  5.090e+02  4.740e+02
  7.240e+02  1.117e+03  1.378e+03  3.660e+02  3.420e+02  3.090e+02
  1.254e+03  4.370e+02  2.000e+01  1.500e+01  1.800e+01  5.510e+02]

tobacco_smoking_history: [2. 3. 1. 4.]

number_pack_years_smoked: [ 31.    40.    22.    30.    50.    37.5   20.
60.    75.    34.
  15.    10.    35.    29.     6.    33.    78.   102.    45.    54.
  38.    48.     2.5   28.75  17.5   52.    58.   100.    25.    80.
  26.    24.    23.    53.     8.    11.    70.    41.    76.     3.
   5.    18.    12.25  13.5   19.     1.  ]
```

alcohol_history_documented: [0. 1.]

frequency_of_alcohol_consumption: [3. 1. 2. 5. 7. 4. 0.]

amount_of_alcohol_consumption_per_day: [1. 5. 14. 0. 4. 6. 2. 3. 7.
8. 10.]

reflux_history: [0. 1.]

initial_diagnosis_by: [2. 0. 1.]

barretts_esophagus: [0. 1. 2.]

history_of_esophageal_cancer: [0. 1.]

has_new_tumor_events_information: [1. 0.]

day_of_form_completion: [25. 3. 1. 26. 14. 11. 28. 23. 21. 13. 18. 16. 20.
17. 12. 10. 29. 22.
  7. 30. 24. 2.]

month_of_form_completion: [2. 4. 7. 6. 8. 9. 3. 5. 11. 10. 12. 1.]

year_of_form_completion: [2014. 2012. 2013. 2015.]

has_follow_ups_information: [0. 1.]

has_drugs_information: [0. 1.]

has_radiations_information: [0. 1.]

stage_event_system_version: [0. 2. 1.]

stage_event_pathologic_stage: [6. 5. 0. 11. 4. 1. 7. 8. 2. 9. 10.
3.]

stage_event_tnm_categories: [29. 7. 1. 33. 26. 8. 13. 48. 17. 37. 31. 25.
52. 43. 22. 2. 35. 28.
 40. 36. 6. 42. 0. 41. 5. 21. 4. 3. 23. 27. 14. 18. 32. 53. 34. 16.
 15. 19. 51. 30. 39. 45. 50. 24. 10. 38. 11. 44. 46. 12. 20. 47. 49. 9.]

primary_pathology_esophageal_tumor_cental_location: [0. 1. 2.]

primary_pathology_esophageal_tumor_involvement_sites: [0. 1. 3. 2. 4.]

primary_pathology_histological_type: [0. 1.]

primary_pathology_columnar_metaplasia_present: [0. 1.]

primary_pathology_neoplasm_histologic_grade: [2. 1. 3. 0.]

primary_pathology_age_at_initial_pathologic_diagnosis: [67. 66. 44. 68. 57.
43. 74. 53. 70. 58. 80. 59. 69. 51. 54. 72. 61. 62.
 48. 71. 56. 63. 60. 50. 36. 77. 49. 75. 47. 82. 81. 90. 84. 79. 65. 83.
 86. 76. 55. 46. 73. 52. 42. 27. 64. 45.]

```
primary_pathology_year_of_initial_pathologic_diagnosis: [2001. 1999. 1998. 2
000. 2013. 2011. 2012. 2003. 2006. 2007. 2008. 2009.
 2010. 2005. 2004.]

primary_pathology_initial_pathologic_diagnosis_method: [1. 0. 2.]

primary_pathology_lymph_node_metastasis_radiographic_evidence: [1. 0.]

primary_pathology_primary_lymph_node_presentation_assessment: [1. 0.]

primary_pathology_lymph_node_examined_count: [ 8. 19. 30.  5.  7. 13. 22. 1
4.  3. 38.  2. 12.  4. 15.  6. 17.  1. 10.
 20. 24. 26. 35. 18. 48. 39. 43. 21. 23.  9. 16. 37. 11. 28. 62. 27. 34.
 32. 87. 25.]

primary_pathology_number_of_lymphnodes_positive_by_he: [ 7.  4.  1.  0.  3.
2.  5.  9.  6.  8. 14. 12. 21. 15.]

primary_pathology_residual_tumor: [1. 0. 3. 2.]

primary_pathology_radiation_therapy: [0. 1.]

primary_pathology_postoperative_rx_tx: [0. 1.]
```

FEATURE SCALING:

In [253…

```
scale_columns = [ 'tissue_source_site',
                  'bcr_patient_uuid',
                  'icd_o_3_site',
                  'icd_o_3_histology',
                  'icd_10',
                  'days_to_birth',
                  'country_of_birth',
                  'height',
                  'weight',
                  'country_of_procurement',
                  'state_province_of_procurement',
                  'city_of_procurement',
                  'race_list',
                  'days_to_last_followup',
                  'tobacco_smoking_history',
                  'number_pack_years_smoked',
                  'frequency_of_alcohol_consumption',
                  'amount_of_alcohol_consumption_per_day',
                  'initial_diagnosis_by',
                  'barretts_esophagus',
                  'day_of_form_completion',
                  'month_of_form_completion',
                  'year_of_form_completion',
                  'stage_event_system_version',
                  'stage_event_pathologic_stage',
                  'stage_event_tnm_categories',
                  'primary_pathology_esophageal_tumor_cental_location',
                  'primary_pathology_esophageal_tumor_involvement_sites',
```

```
                    'primary_pathology_neoplasm_histologic_grade',
                    'primary_pathology_age_at_initial_pathologic_diagnosis',
                    'primary_pathology_year_of_initial_pathologic_diagnosis',
                    'primary_pathology_initial_pathologic_diagnosis_method',
                    'primary_pathology_lymph_node_examined_count',
                    'primary_pathology_number_of_lymphnodes_positive_by_he',
                    'primary_pathology_residual_tumor']

scaler = StandardScaler()

data[scale_columns] = scaler.fit_transform(data[scale_columns])

data[scale_columns].head(20)
```

Out[253…

	tissue_source_site	bcr_patient_uuid	icd_o_3_site	icd_o_3_histology	icd_
0	-1.541097	-1.656926	0.315491	0.957441	0.276
1	-1.541097	-0.281963	0.315491	0.957441	0.276
2	-1.541097	-0.542091	0.315491	0.957441	0.276
3	-1.541097	1.148742	0.315491	0.957441	0.276
4	-1.541097	1.520353	0.315491	0.957441	0.276
5	-1.541097	-0.504930	0.315491	0.957441	0.276
6	-1.541097	0.572744	0.315491	0.957441	0.276
7	-1.541097	-0.449188	0.315491	0.957441	0.276
8	-1.541097	-1.619765	0.315491	0.957441	0.276
9	-1.541097	0.981516	0.315491	0.957441	0.276
10	-1.541097	1.576095	0.315491	0.957441	0.276
11	-1.541097	1.464611	0.315491	0.957441	0.276
12	-1.307961	-0.486350	0.315491	0.957441	0.276
13	-1.307961	0.331196	0.315491	-1.039804	0.276
14	-1.074825	-0.133319	1.775693	-0.374055	1.849
15	-1.074825	-1.526862	0.315491	-0.374055	0.276
16	-1.074825	-0.839381	1.775693	-1.039804	1.849
17	-1.074825	-0.151899	0.315491	-1.039804	0.276
18	-1.074825	0.386938	0.315491	-1.039804	0.276
19	-1.074825	-0.319124	0.315491	-1.039804	0.276

20 rows × 35 columns

In [254…

```
from xgboost import XGBClassifier

X = data.drop(['patient_id', 'person_neoplasm_cancer_status'], axis=1)
```

```
y = data['person_neoplasm_cancer_status']

model = XGBClassifier()
model.fit(X, y)

feature_importances = model.feature_importances_

# for feature_name, importance in zip(X.columns, feature_importances):
#   print(f"{feature_name}: {importance}")

feature_importance_data = pd.DataFrame({
    'Feature': X.columns,
    'Importance': feature_importances
})

feature_importance_data = feature_importance_data.sort_values(by='Importance

feature_importance_data
```

Out[254…

	Feature	Importance
32	has_follow_ups_information	0.290297
5	tissue_prospective_collection_indicator	0.172741
27	history_of_esophageal_cancer	0.113669
28	has_new_tumor_events_information	0.032642
36	stage_event_pathologic_stage	0.031541
17	vital_status	0.029890
0	tissue_source_site	0.028151
13	state_province_of_procurement	0.027994
41	primary_pathology_columnar_metaplasia_present	0.026544
20	number_pack_years_smoked	0.024503
18	days_to_last_followup	0.017837
37	stage_event_tnm_categories	0.017780
26	barretts_esophagus	0.016575
2	icd_o_3_site	0.014750
29	day_of_form_completion	0.013379
14	city_of_procurement	0.013192
48	primary_pathology_lymph_node_examined_count	0.012168
10	height	0.012023
43	primary_pathology_age_at_initial_pathologic_di...	0.011956
30	month_of_form_completion	0.011254
45	primary_pathology_initial_pathologic_diagnosis...	0.010922
1	bcr_patient_uuid	0.010801
11	weight	0.009415
50	primary_pathology_residual_tumor	0.007524
31	year_of_form_completion	0.007038
3	icd_o_3_histology	0.004349
7	days_to_birth	0.003966
24	reflux_history	0.003386
34	has_radiations_information	0.003315
19	tobacco_smoking_history	0.003297
33	has_drugs_information	0.002847
23	amount_of_alcohol_consumption_per_day	0.002742
39	primary_pathology_esophageal_tumor_involvement...	0.002703

	Feature	Importance
44	primary_pathology_year_of_initial_pathologic_d...	0.001836
42	primary_pathology_neoplasm_histologic_grade	0.001809
46	primary_pathology_lymph_node_metastasis_radiog...	0.001658
8	country_of_birth	0.001135
52	primary_pathology_postoperative_rx_tx	0.000638
49	primary_pathology_number_of_lymphnodes_positiv...	0.000564
22	frequency_of_alcohol_consumption	0.000516
12	country_of_procurement	0.000369
4	icd_10	0.000286
38	primary_pathology_esophageal_tumor_cental_loca...	0.000000
40	primary_pathology_histological_type	0.000000
35	stage_event_system_version	0.000000
6	tissue_retrospective_collection_indicator	0.000000
25	initial_diagnosis_by	0.000000
21	alcohol_history_documented	0.000000
9	gender	0.000000
47	primary_pathology_primary_lymph_node_presentat...	0.000000
16	other_dx	0.000000
15	race_list	0.000000
51	primary_pathology_radiation_therapy	0.000000

In [255…

```
pca_features = feature_importance_data['Feature'].tolist()

cluster_feature_names = pca_features + ['person_neoplasm_cancer_status']
cluster_feature_names
```

Out[255…

```
['has_follow_ups_information',
 'tissue_prospective_collection_indicator',
 'history_of_esophageal_cancer',
 'has_new_tumor_events_information',
 'stage_event_pathologic_stage',
 'vital_status',
 'tissue_source_site',
 'state_province_of_procurement',
 'primary_pathology_columnar_metaplasia_present',
 'number_pack_years_smoked',
 'days_to_last_followup',
 'stage_event_tnm_categories',
 'barretts_esophagus',
 'icd_o_3_site',
 'day_of_form_completion',
 'city_of_procurement',
 'primary_pathology_lymph_node_examined_count',
 'height',
 'primary_pathology_age_at_initial_pathologic_diagnosis',
 'month_of_form_completion',
 'primary_pathology_initial_pathologic_diagnosis_method',
 'bcr_patient_uuid',
 'weight',
 'primary_pathology_residual_tumor',
 'year_of_form_completion',
 'icd_o_3_histology',
 'days_to_birth',
 'reflux_history',
 'has_radiations_information',
 'tobacco_smoking_history',
 'has_drugs_information',
 'amount_of_alcohol_consumption_per_day',
 'primary_pathology_esophageal_tumor_involvement_sites',
 'primary_pathology_year_of_initial_pathologic_diagnosis',
 'primary_pathology_neoplasm_histologic_grade',
 'primary_pathology_lymph_node_metastasis_radiographic_evidence',
 'country_of_birth',
 'primary_pathology_postoperative_rx_tx',
 'primary_pathology_number_of_lymphnodes_positive_by_he',
 'frequency_of_alcohol_consumption',
 'country_of_procurement',
 'icd_10',
 'primary_pathology_esophageal_tumor_cental_location',
 'primary_pathology_histological_type',
 'stage_event_system_version',
 'tissue_retrospective_collection_indicator',
 'initial_diagnosis_by',
 'alcohol_history_documented',
 'gender',
 'primary_pathology_primary_lymph_node_presentation_assessment',
 'other_dx',
 'race_list',
 'primary_pathology_radiation_therapy',
 'person_neoplasm_cancer_status']
```

In [256…

```
data[cluster_feature_names].info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3985 entries, 0 to 3984
Data columns (total 54 columns):
 #   Column                                                    Non-Null
Count  Dtype
---  ------                                                    --------
------  -----
 0   has_follow_ups_information                                3985 non
-null   float64
 1   tissue_prospective_collection_indicator                   3985 non
-null   float64
 2   history_of_esophageal_cancer                              3985 non
-null   float64
 3   has_new_tumor_events_information                          3985 non
-null   float64
 4   stage_event_pathologic_stage                              3985 non
-null   float64
 5   vital_status                                              3985 non
-null   float64
 6   tissue_source_site                                        3985 non
-null   float64
 7   state_province_of_procurement                             3985 non
-null   float64
 8   primary_pathology_columnar_metaplasia_present             3985 non
-null   float64
 9   number_pack_years_smoked                                  3985 non
-null   float64
 10  days_to_last_followup                                     3985 non
-null   float64
 11  stage_event_tnm_categories                                3985 non
-null   float64
 12  barretts_esophagus                                        3985 non
-null   float64
 13  icd_o_3_site                                              3985 non
-null   float64
 14  day_of_form_completion                                    3985 non
-null   float64
 15  city_of_procurement                                       3985 non
-null   float64
 16  primary_pathology_lymph_node_examined_count               3985 non
-null   float64
 17  height                                                    3985 non
-null   float64
 18  primary_pathology_age_at_initial_pathologic_diagnosis     3985 non
-null   float64
 19  month_of_form_completion                                  3985 non
-null   float64
 20  primary_pathology_initial_pathologic_diagnosis_method     3985 non
-null   float64
 21  bcr_patient_uuid                                          3985 non
-null   float64
 22  weight                                                    3985 non
-null   float64
 23  primary_pathology_residual_tumor                          3985 non
-null   float64
 24  year_of_form_completion                                   3985 non
```

```
-null   float64
 25  icd_o_3_histology                                          3985 non
-null   float64
 26  days_to_birth                                              3985 non
-null   float64
 27  reflux_history                                             3985 non
-null   float64
 28  has_radiations_information                                 3985 non
-null   float64
 29  tobacco_smoking_history                                    3985 non
-null   float64
 30  has_drugs_information                                      3985 non
-null   float64
 31  amount_of_alcohol_consumption_per_day                      3985 non
-null   float64
 32  primary_pathology_esophageal_tumor_involvement_sites       3985 non
-null   float64
 33  primary_pathology_year_of_initial_pathologic_diagnosis     3985 non
-null   float64
 34  primary_pathology_neoplasm_histologic_grade                3985 non
-null   float64
 35  primary_pathology_lymph_node_metastasis_radiographic_evidence  3985 non
-null   float64
 36  country_of_birth                                           3985 non
-null   float64
 37  primary_pathology_postoperative_rx_tx                      3985 non
-null   float64
 38  primary_pathology_number_of_lymphnodes_positive_by_he      3985 non
-null   float64
 39  frequency_of_alcohol_consumption                           3985 non
-null   float64
 40  country_of_procurement                                     3985 non
-null   float64
 41  icd_10                                                     3985 non
-null   float64
 42  primary_pathology_esophageal_tumor_cental_location         3985 non
-null   float64
 43  primary_pathology_histological_type                        3985 non
-null   float64
 44  stage_event_system_version                                 3985 non
-null   float64
 45  tissue_retrospective_collection_indicator                  3985 non
-null   float64
 46  initial_diagnosis_by                                       3985 non
-null   float64
 47  alcohol_history_documented                                 3985 non
-null   float64
 48  gender                                                     3985 non
-null   float64
 49  primary_pathology_primary_lymph_node_presentation_assessment   3985 non
-null   float64
 50  other_dx                                                   3985 non
-null   float64
 51  race_list                                                  3985 non
-null   float64
 52  primary_pathology_radiation_therapy                        3985 non
```

```
-null   float64
 53  person_neoplasm_cancer_status                                3985 non
-null   float64
dtypes: float64(54)
memory usage: 1.6 MB
```

In [257…

```
data[cluster_feature_names].head(20)
```

Out[257…

	has_follow_ups_information	tissue_prospective_collection_indicator	histor
0	0.0	0.0	
1	0.0	0.0	
2	0.0	0.0	
3	0.0	0.0	
4	0.0	0.0	
5	0.0	0.0	
6	0.0	0.0	
7	0.0	0.0	
8	0.0	0.0	
9	0.0	0.0	
10	0.0	0.0	
11	0.0	0.0	
12	1.0	1.0	
13	1.0	1.0	
14	1.0	1.0	
15	1.0	1.0	
16	1.0	1.0	
17	1.0	1.0	
18	1.0	1.0	
19	1.0	1.0	

20 rows × 54 columns

DIMENSIONALITY REDUCTION:

Dimensionality Reduction is a process used in data analysis and machine learning to reduce the number of features or variables in a dataset while preserving its essential characteristics. This can help to simplify models, improve performance, and reduce overfitting.

Principal Component Analysis (PCA):

- A linear method that transforms the data into a new coordinate system.
- The axes (principal components) are chosen to maximize variance.

GROUPING OF VARIABLES FOR ANALYSIS:

1. Patient Demographics

Features:

- `tissue_source_site`
- `patient_id`
- `bcr_patient_uuid`
- `days_to_birth`
- `gender`
- `height`
- `weight`
- `race_list`
- `country_of_birth`
- `country_of_procurement`
- `state_province_of_procurement`
- `city_of_procurement`

Insights:

- **Purpose:** These features capture basic patient information that can indicate demographic factors influencing cancer prevalence or treatment outcomes.
- **Key Focus:**
  - Attributes like age (`days_to_birth`), gender, and race can reveal correlations with esophageal cancer risk and survival rates.
  - Geographic factors (`country_of_birth` , `city_of_procurement`) might identify regional or environmental influences on cancer development.
  - Height and weight can provide insights into body mass index (BMI), which is linked to cancer risks such as obesity-related esophageal cancer.

---

2. Clinical Diagnosis

Features:

- `icd_o_3_site`
- `icd_o_3_histology`
- `icd_10`
- `person_neoplasm_cancer_status`
- `vital_status`
- `days_to_last_followup`
- `tissue_prospective_collection_indicator`
- `tissue_retrospective_collection_indicator`

Insights:

- **Purpose:** These features encompass medical diagnostic details about the patient's cancer status and its classification.
- **Key Focus:**
  - Histology and site information (`icd_o_3_site` , `icd_o_3_histology`) help categorize cancer types and stages.
  - `vital_status` and `days_to_last_followup` track patient survival and treatment efficacy.
  - Tissue indicators provide context for how samples were collected and their representativeness.

---

3. Lifestyle Factors

Features:

- `tobacco_smoking_history`
- `number_pack_years_smoked`
- `alcohol_history_documented`
- `frequency_of_alcohol_consumption`
- `amount_of_alcohol_consumption_per_day`
- `reflux_history`

Insights:

- **Purpose:** Lifestyle habits are known contributors to esophageal cancer risk.
- **Key Focus:**
  - Smoking and alcohol consumption are primary risk factors for esophageal cancer.
  - The extent (`number_pack_years_smoked`) and frequency of these habits provide quantitative measures of exposure.

- `reflux_history` captures gastroesophageal reflux disease (GERD), a known precursor to esophageal cancer.

---

4. Medical History

Features:

- `initial_diagnosis_by`
- `barretts_esophagus`
- `history_of_esophageal_cancer`
- `has_new_tumor_events_information`
- `other_dx`

Insights:

- **Purpose:** Medical history reveals pre-existing conditions and prior diagnoses impacting cancer progression.
- **Key Focus:**
  - `barretts_esophagus` is a significant risk factor, as it represents a precancerous condition.
  - `history_of_esophageal_cancer` aids in understanding recurrence trends.
  - Tracking additional diagnoses (`other_dx`) provides a holistic view of patient health.

---

5. Pathology Information

Features:

- `primary_pathology_esophageal_tumor_central_location`
- `primary_pathology_esophageal_tumor_involvement_sites`
- `primary_pathology_histological_type`
- `primary_pathology_columnar_metaplasia_present`
- `primary_pathology_neoplasm_histologic_grade`
- `primary_pathology_age_at_initial_pathologic_diagnosis`
- `primary_pathology_year_of_initial_pathologic_diagnosis`
- `primary_pathology_initial_pathologic_diagnosis_method`
- `primary_pathology_lymph_node_metastasis_radiographic_evidence`
- `primary_pathology_primary_lymph_node_presentation_assessment`
- `primary_pathology_lymph_node_examined_count`
- `primary_pathology_number_of_lymphnodes_positive_by_he`

- `primary_pathology_residual_tumor`

Insights:

- **Purpose:** Pathology details help analyze tumor characteristics and staging.
- **Key Focus:**
  - Tumor involvement and histological type are crucial for understanding cancer aggressiveness.
  - `primary_pathology_neoplasm_histologic_grade` indicates how differentiated the cancer cells are, affecting prognosis.
  - Lymph node involvement metrics (`lymph_node_metastasis` , `lymph_node_examined_count`) signal metastasis severity.

---

6. Treatment Information

Features:

- `primary_pathology_radiation_therapy`
- `primary_pathology_postoperative_rx_tx`
- `has_drugs_information`
- `has_radiations_information`

Insights:

- **Purpose:** These features document the treatments administered to patients.
- **Key Focus:**
  - The presence of radiation or postoperative therapies helps assess treatment strategies.
  - Tracking medication and radiation information reveals patterns in treatment success and survival outcomes.

---

7. Staging and Events

Features:

- `stage_event_system_version`
- `stage_event_pathologic_stage`
- `stage_event_tnm_categories`

Insights:

- **Purpose:** Staging provides standardized classifications of cancer severity and spread.
- **Key Focus:**
  - `stage_event_pathologic_stage` is a critical determinant of treatment strategy and prognosis.
  - TNM categories offer detailed information on tumor size (T), lymph node involvement (N), and metastasis (M).

---

8. Form Details

Features:

- `day_of_form_completion`
- `month_of_form_completion`
- `year_of_form_completion`
- `has_follow_ups_information`

Insights:

- **Purpose:** These features track administrative and follow-up details.
- **Key Focus:**
  - The completion date ensures data recency and relevance.
  - Follow-up information is vital for longitudinal tracking of treatment outcomes and patient health.

Summary:

This dataset provides a comprehensive view of esophageal cancer risk factors, patient demographics, medical history, and treatment outcomes. Each group contributes to identifying critical factors influencing diagnosis, prognosis, and survival rates, facilitating effective predictions and interventions for esophageal cancer patients.

In [269…

```
from sklearn.decomposition import PCA

groups = {
    "Patient Demographics": [
        'tissue_source_site', 'bcr_patient_uuid', 'days_to_birth', 'gender',
        'race_list', 'country_of_birth', 'country_of_procurement', 'state_pr
    ],
    "Clinical Diagnosis": [
        'icd_o_3_site', 'icd_o_3_histology', 'icd_10', 'person_neoplasm_canc
        'days_to_last_followup', 'tissue_prospective_collection_indicator',
    ],
```

```
    "Lifestyle Factors": [
        'tobacco_smoking_history', 'number_pack_years_smoked', 'alcohol_hist
        'frequency_of_alcohol_consumption', 'amount_of_alcohol_consumption_p
    ],
    "Medical History": [
        'initial_diagnosis_by', 'barretts_esophagus', 'history_of_esophageal
    ],
    "Pathology Information": [
        'primary_pathology_esophageal_tumor_central_location', 'primary_path
        'primary_pathology_histological_type', 'primary_pathology_columnar_m
        'primary_pathology_neoplasm_histologic_grade', 'primary_pathology_ag
        'primary_pathology_year_of_initial_pathologic_diagnosis', 'primary_p
        'primary_pathology_lymph_node_metastasis_radiographic_evidence', 'pr
        'primary_pathology_lymph_node_examined_count', 'primary_pathology_nu
        'primary_pathology_residual_tumor'
    ],
    "Treatment Information": [
        'primary_pathology_radiation_therapy', 'primary_pathology_postoperat
    ],
    "Staging and Events": [
        'stage_event_system_version', 'stage_event_pathologic_stage', 'stage
    ],
    "Form Details": [
        'day_of_form_completion', 'month_of_form_completion', 'year_of_form_
    ]
}

data = data[cluster_feature_names]

pca_data = pd.DataFrame()

for group_name, group_features in groups.items():

    valid_features = [feature for feature in group_features if feature in da

    if not valid_features:
        print(f"No valid features found for group: {group_name}")
        continue

    group_data = data[valid_features]

    pca = PCA(n_components=1, random_state=42)
    pca_result = pca.fit_transform(group_data)

    pca_data[group_name] = pca_result.flatten()

pca_data.head(10)
```

Out[269…

	Patient Demographics	Clinical Diagnosis	Lifestyle Factors	Medical History	Pathology Information	Treatment Information	
0	1.992763	0.888955	-0.364252	0.517713	-1.731444	-0.364808	0
1	1.290208	0.888955	-0.364252	-0.596493	-1.398204	-0.364808	0
2	1.197248	0.888955	-0.364252	-0.596493	-0.595056	-0.364808	-1
3	2.261297	0.888955	-0.364252	-0.596493	-1.249063	-0.364808	0
4	1.230641	0.888955	-0.413920	-0.596493	-0.602682	-0.364808	-3
5	0.826998	0.888955	-0.413920	-0.596493	-0.706702	-0.364808	0
6	1.620769	0.888955	-0.364252	-0.596493	-1.703669	-0.364808	0
7	1.001438	0.888955	-0.364252	-0.596493	-0.487709	-0.364808	-1
8	1.829969	0.888955	-0.364252	0.517713	-1.803172	-0.364808	0
9	1.014899	0.888955	-0.364252	-0.596493	-1.795485	-0.364808	1

In [270…

```
pca_data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3985 entries, 0 to 3984
Data columns (total 8 columns):
 #   Column                 Non-Null Count  Dtype
---  ------                 --------------  -----
 0   Patient Demographics   3985 non-null   float64
 1   Clinical Diagnosis     3985 non-null   float64
 2   Lifestyle Factors      3985 non-null   float64
 3   Medical History        3985 non-null   float64
 4   Pathology Information  3985 non-null   float64
 5   Treatment Information  3985 non-null   float64
 6   Staging and Events     3985 non-null   float64
 7   Form Details           3985 non-null   float64
dtypes: float64(8)
memory usage: 249.2 KB
```

In [271…

```
pca_data.describe()
```

Out[271…

	Patient Demographics	Clinical Diagnosis	Lifestyle Factors	Medical History	Pathol Informa
count	3.985000e+03	3.985000e+03	3.985000e+03	3.985000e+03	3.985000e
mean	-4.635912e-17	4.279304e-17	-8.469455e-18	2.674565e-18	-2.852869
std	1.516674e+00	1.494567e+00	1.240749e+00	1.057685e+00	1.417300e
min	-4.026295e+00	-3.987544e+00	-1.772919e+00	-4.653022e+00	-2.987612e
25%	-1.252567e+00	-8.304849e-01	-5.929793e-01	4.208486e-01	-1.069428e
50%	2.544290e-01	7.151346e-01	-3.103334e-01	4.816218e-01	-5.905854
75%	1.259349e+00	8.889547e-01	7.271334e-01	4.816218e-01	1.119620e
max	3.843124e+00	4.731527e+00	6.539130e+00	5.177127e-01	3.461304e

In [272…

```
pca_data.shape
```

Out[272…

```
(3985, 8)
```

K-Means CLUSTERING:

Determining the Optimal Value of K using WCSS and the Elbow Method:

- To study the K-means algorithm, the first step is to decide the number of clusters.
- The K value signifies the number of clusters that the algorithm will identify in the dataset.

Within Cluster Sum of Squares (WCSS):

- We use the WCSS metric to evaluate the choice of K. WCSS represents the total squared distance between each point in a cluster and the centroid of that cluster.
- Essentially, we choose a center point for a cluster and then calculate the distance of all points from that center.
- We sum these distances to obtain the WCSS value.
- Next, we will repeat this process for different values of K.
- The ideal value of K is typically the one that results in the minimum WCSS.

In [273…

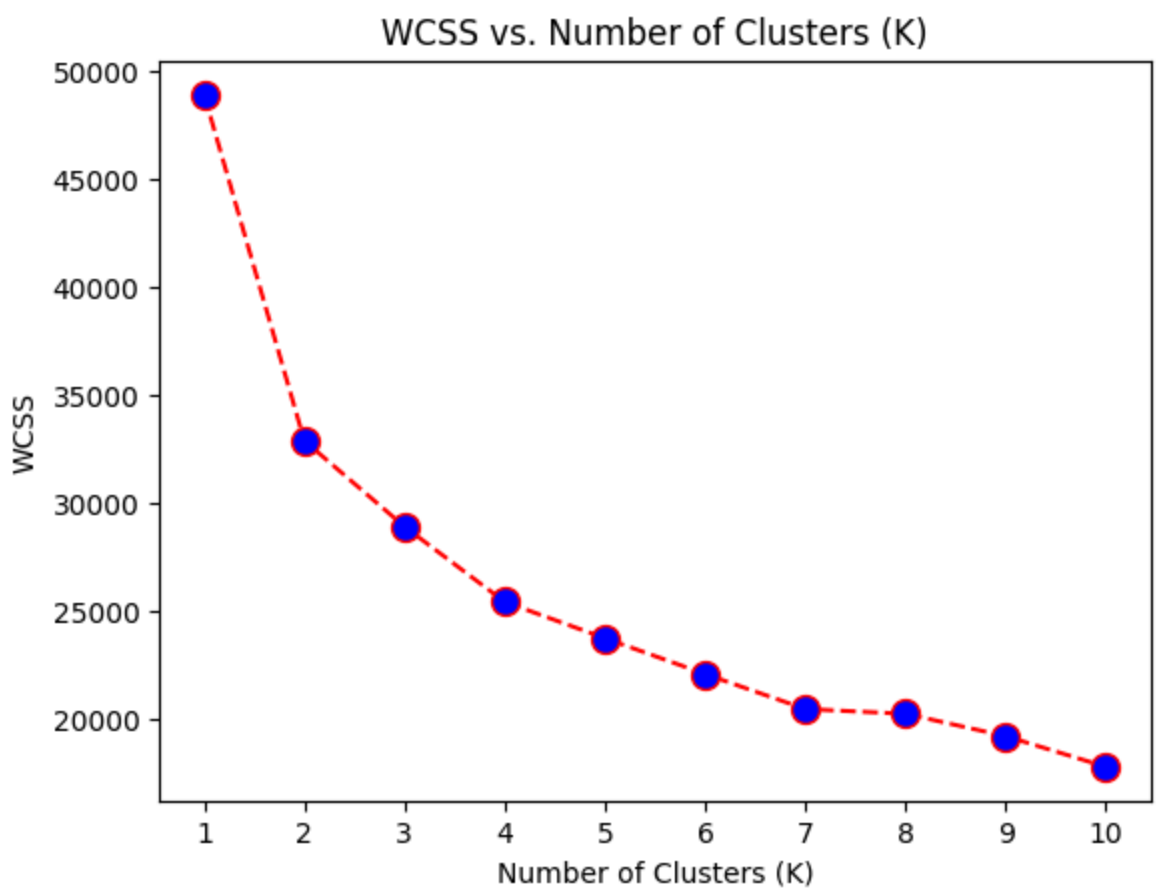
```
from sklearn.cluster import KMeans

wcss = []
K_values = range(1, 11)

for k in K_values:
    kmeans = KMeans(n_clusters=k)
    kmeans.fit(pca_data)
    wcss.append(kmeans.inertia_)
```

The Elbow Method:

- The Elbow method is a useful technique for selecting the best value of K.
- This method involves plotting the WCSS values against the number of clusters (K) and looking for a point where the rate of decrease sharply changes, resembling an **elbow.**

In [274…

```
plt.plot(K_values, wcss, color='red', linestyle='dashed', marker='o', marker
plt.xticks(K_values)
plt.title('WCSS vs. Number of Clusters (K)')
plt.xlabel('Number of Clusters (K)')
plt.ylabel('WCSS')
plt.show()
```



Analyzing Clusters:

In the elbow chart above, we observe that the **WCSS** value decreases significantly until **K = 2**. Therefore, we can conclude that the optimal value for **K** is **2** for the given data.

K-Means - MODEL BUILDING:

In [280…

```
k = 2
kmeans = KMeans(n_clusters=k, init='k-means++')
pca_data['Cluster'] = kmeans.fit_predict(pca_data)
pca_data.head(20)
```

Out[280…

	Patient Demographics	Clinical Diagnosis	Lifestyle Factors	Medical History	Pathology Information	Treatment Information
0	1.992763	0.888955	-0.364252	0.517713	-1.731444	-0.364808
1	1.290208	0.888955	-0.364252	-0.596493	-1.398204	-0.364808
2	1.197248	0.888955	-0.364252	-0.596493	-0.595056	-0.364808
3	2.261297	0.888955	-0.364252	-0.596493	-1.249063	-0.364808
4	1.230641	0.888955	-0.413920	-0.596493	-0.602682	-0.364808
5	0.826998	0.888955	-0.413920	-0.596493	-0.706702	-0.364808
6	1.620769	0.888955	-0.364252	-0.596493	-1.703669	-0.364808
7	1.001438	0.888955	-0.364252	-0.596493	-0.487709	-0.364808
8	1.829969	0.888955	-0.364252	0.517713	-1.803172	-0.364808
9	1.014899	0.888955	-0.364252	-0.596493	-1.795485	-0.364808
10	1.823501	0.888955	-0.364252	-0.596493	-1.768679	-0.364808
11	1.204379	0.888955	-0.364252	-0.632584	-1.365995	-0.364808
12	2.154000	0.583540	-0.261975	-1.746789	-0.082060	0.534881
13	2.023083	-0.422780	-0.805750	0.456939	0.107459	0.953224
14	-1.038884	1.542877	-0.554681	0.481622	1.106551	0.277319
15	-0.153285	-0.246542	-0.590301	0.481622	1.115821	-0.364808
16	0.721114	1.170775	-0.372466	0.481622	1.039281	-0.364808
17	0.148162	-0.478685	-0.777689	0.481622	1.730784	-0.364808
18	0.430160	-0.548665	-0.554681	0.481622	1.409583	0.311097
19	-0.131058	-0.548665	-0.481383	0.517713	0.880246	0.277319

In [281…

```
pca_data.tail(10)
```

Out[281…

	Patient Demographics	Clinical Diagnosis	Lifestyle Factors	Medical History	Pathology Information	Treatment Information
3975	-2.376829	-1.736854	2.497637	0.481622	0.743667	-0.364808
3976	1.429603	0.913619	0.847817	0.481622	0.351098	-0.364808
3977	-2.818748	-0.087393	4.437975	0.481622	0.122086	-0.364808
3978	-2.883261	-1.082766	-0.201229	0.481622	0.782708	-0.364808
3979	-3.125167	0.092506	3.126839	0.481622	1.655161	0.146696
3980	-1.861562	1.184096	-0.554681	0.481622	3.461304	-0.364808
3981	-1.877622	-3.987544	-0.554681	0.481622	2.082543	-0.364808
3982	-2.314415	-0.538674	-0.500763	0.481622	0.753594	-0.364808
3983	-1.936987	-0.536676	-0.256228	0.481622	1.152235	-0.364808
3984	-1.230433	1.074805	-0.364252	0.517713	-1.505382	-0.364808

In [283…

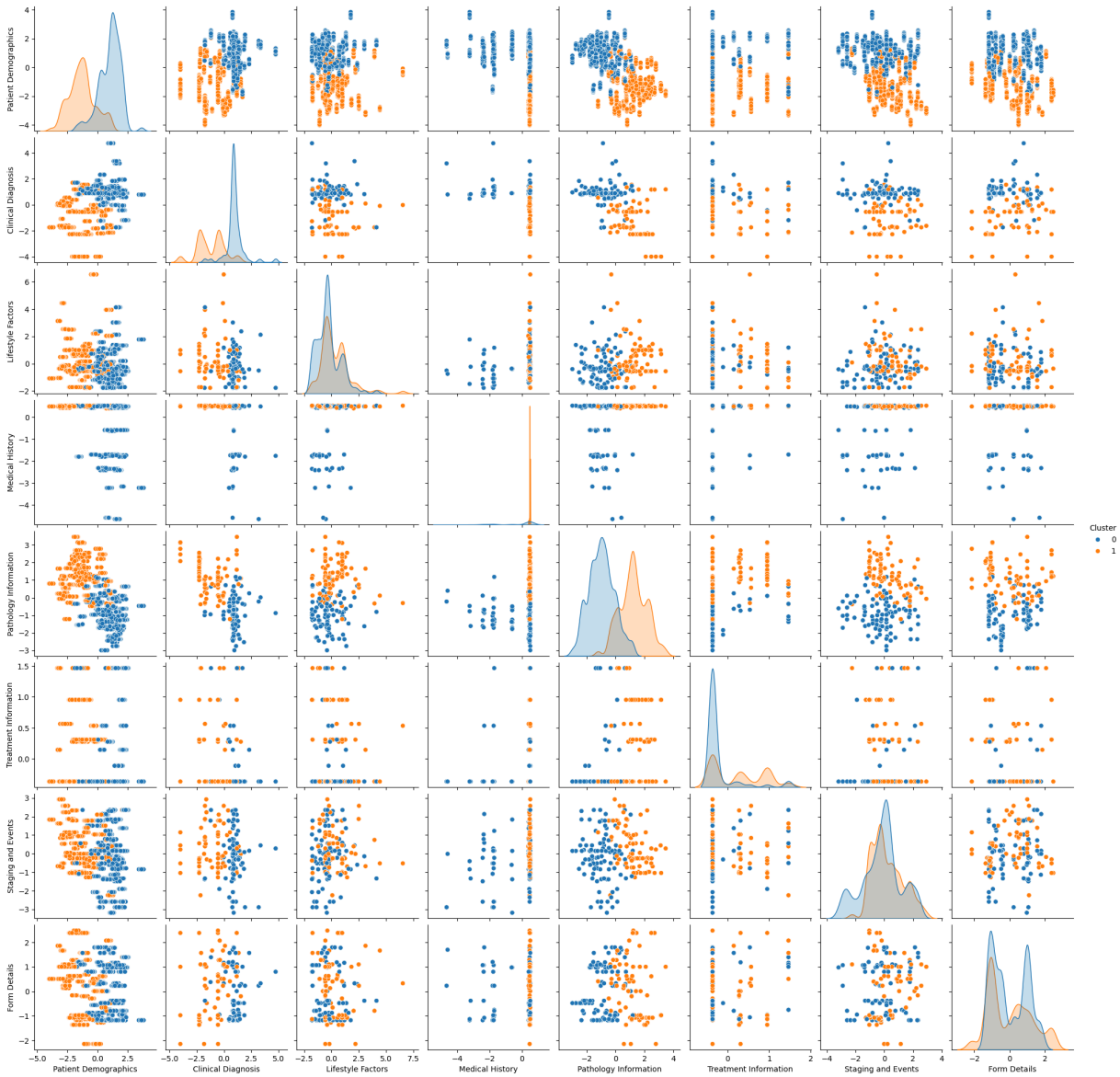
```
centroids = kmeans.cluster_centers_
centroids
```

Out[283…

```
array([[ 1.03196414,  0.94935322, -0.26185825, -0.39188168, -0.97674208,
        -0.2081209 , -0.17325276, -0.01134539],
       [-1.28879043, -1.18562002,  0.32702726,  0.4894098 ,  1.21982519,
         0.25991623,  0.21637041,  0.01416893]])
```

In [286…

```
sns.pairplot(pca_data, hue='Cluster')
plt.show()
```



CLUSTER ANALYSIS: TUMOR STAUS

Cluster 0 - (BLUE COLOR):

What It Represents:

These are people with active or unresolved tumors that still need medical attention or treatment.

Key Features of Cluster 0:

- **Patient Demographics:**
  - This group is quite varied in terms of age, gender, and race.

    - It includes individuals who may be at higher risk for cancer (e.g., older age, smoking history).
- **Clinical Diagnosis:**
    - Patients here have different types and stages of cancer.
    - Most likely, they have been diagnosed with tumors that are still present and require treatment.
- **Lifestyle Factors:**
    - This group has a wider range of habits like smoking, drinking alcohol, and reflux (stomach acid issues). These factors can contribute to cancer.
- **Medical History:**
    - These patients have a mix of different health conditions, which might be linked to their cancer risk.
- **Pathology Information:**
    - This group has a variety of serious cancer features, like larger tumor sizes, lymph node involvement, and signs of remaining cancer, which suggests advanced cancer.
- **Treatment Information:**
    - People in this group are undergoing different types of treatments, such as chemotherapy or surgery, as their cancer is still active.
- **Cancer Staging (Staging and Events):**
    - This cluster includes patients at all stages of cancer, from early to advanced.
- **Follow-Up Details (Form Details):**
    - These individuals have more frequent medical check-ups and follow-ups due to ongoing treatment.

Cluster 1 - (ORANGE COLOR):

What It Represents:

This group consists of people who have either successfully fought cancer or never had it in the first place. They are currently cancer-free.

Key Features of Cluster 1:

- **Patient Demographics:**

    - The people here are a bit more similar to each other in terms of characteristics like age, gender, and race.
    - They are mostly individuals who either never had cancer or were treated successfully.
- **Clinical Diagnosis:**
    - These patients either don't have cancer or have had it resolved.
    - Most of them likely have a negative cancer status (no evidence of cancer).
- **Lifestyle Factors:**
    - Their lifestyle choices (e.g., tobacco and alcohol consumption) are more controlled, and they are not at high risk for developing cancer.
- **Medical History:**
    - These patients are generally healthier with fewer health problems that could increase cancer risk.
- **Pathology Information:**
    - This group doesn't have major signs of cancer (e.g., no tumor, no spread to lymph nodes).
- **Treatment Information:**
    - People here have either finished their cancer treatment successfully or had less aggressive treatments.
- **Cancer Staging (Staging and Events):**
    - They are mostly early-stage cancer patients or those who no longer have cancer.
- **Follow-Up Details (Form Details):**
    - The follow-ups are less frequent or more recent, as these people either no longer need monitoring or are in remission.

PROPOSED CLUSTER NAMES BASED ON TUMOR STATUS:

- **Cluster 0 - (BLUE COLOR): "WITH TUMOR"** – These individuals still have cancer or are actively being treated for it.

- **Cluster 1 - (ORANGE COLOR): "TUMOR FREE"** – These people have either successfully fought cancer or never had it at all.

In [289…

```
pca_data['Cluster'].unique()
```

Out[289…
```
array([0, 1], dtype=int32)
```

In [290…
```
pca_data['Cluster'].replace({0: 'WITH TUMOR', 1: 'TUMOR FREE'}, inplace=True
pca_data['Cluster'].unique()
```

Out[290…
```
array(['WITH TUMOR', 'TUMOR FREE'], dtype=object)
```

In [297…
```
pca_data.rename(columns={'Cluster': 'Tumor Status'}, inplace=True)
```

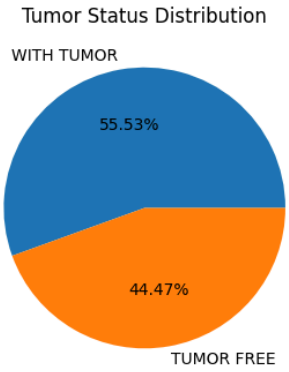
In [298…
```
pca_data['Tumor Status'].value_counts()
```

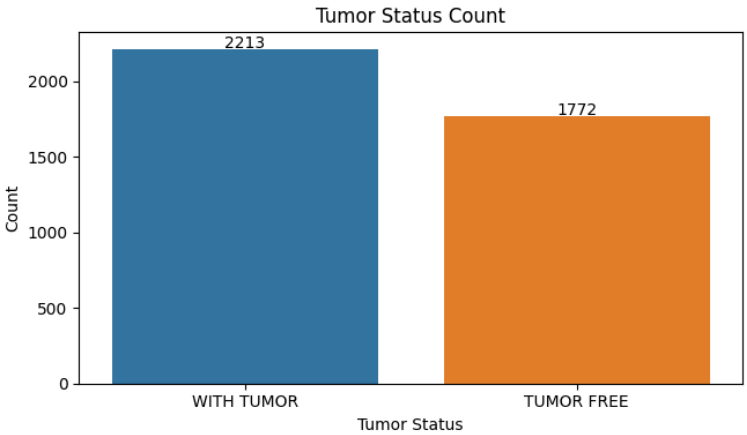
Out[298…

Tumor Status	count
WITH TUMOR	2213
TUMOR FREE	1772

dtype: int64

In [303…
```
cluster_count = pca_data['Tumor Status'].value_counts()

fig, (ax1, ax2) = plt.subplots(1, 2, figsize=(12, 4))

ax1.pie(cluster_count, labels=cluster_count.index, autopct='%1.2f%%')
ax1.set_title('Tumor Status Distribution')

sns.countplot(data=pca_data, x='Tumor Status', hue='Tumor Status', ax=ax2)
ax2.set_title('Tumor Status Count')
ax2.set_xlabel('Tumor Status')
ax2.set_ylabel('Count')

for p in ax2.patches:
    height = p.get_height()
    ax2.text(p.get_x() + p.get_width() / 2., height + 3,
             '%d' % int(height),
             ha="center")

plt.tight_layout()
plt.show()
```





THANK YOU

This notebook was converted with convert.ploomber.io