Data description:

We extracted the data from patients’ medical reports (1000+ pages) provided by University of Virginia Health System, including the lab report, scan report and the pathology report. There are 150 patients and 25 variables included in this dataset. Those variables contain information of patients’ characteristics at the time of diagnosis, survival features, lab results at time of diagnosis, lab results after 2PC sessions, cancer type, gene mutation, and metastasis sites. The following table shows more detailed description of the variables.

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| --- | --- | --- | --- |
| Categories | Variable | Type | Comments |
| Patients Characteristics at the Time of Diagnosis | Dx\_Age | Integer | Age at diagnosis |
| Gender | Binary | 0=male, 1=female |
| Diabetes | Binary | 0=N, 1=Y |
| BMI | Continuous | Body Mass Index, Unit: kg/m2 |
| Survival Features | Survival\_Days | Integer |  |
| Censoring\_Indicator | Binary | 0=Censored, 1=Death |
| Lab Results at Time of Diagnosis | Platelets | Continuous | Unit: K/UL |
| Hematocrit | Continuous | Unit: % |
| WBC | Continuous | White Blood Cells, Unit: K/UL |
| Albumin | Continuous | Unit: G/DL |
| Creatinine | Continuous | Unit: MG/DL |
| Total Bilirubin | Continuous | Unit: MG/DL |
| Lab Results after 2PC Sessions | Platelets | Continuous | Unit: K/UL |
| Hematocrit | Continuous | Unit: % |
| WBC | Continuous | White Blood Cells, Unit: K/UL |
| Albumin | Continuous | Unit: G/DL |
| Creatinine | Continuous | Unit: MG/DL |
| Total Bilirubin | Continuous | Unit: MG/DL |
| Cancer Type | Esophagus | Binary | 0=no primary tumor in esophagus, 1=primary tumor in esophagus |
| Stomach | Binary | 0=no primary tumor in stomach, 1=primary tumor in stomach |
| Gene Mutation | Gene\_HER2 | Binary | 0=no gene mutation, 1=have gene mutation |
| Metastasis Sites | Chest / Lung | Binary | 0=no metastasis, 1=have metastasis |
| Lymph Node | Binary | 0=no metastasis, 1=have metastasis |
| Liver | Binary | 0=no metastasis, 1=have metastasis |
| Bones | Binary | 0=no metastasis, 1=have metastasis |