S3 Table. Search Strategy for Medical History and Comorbidities

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| **Organ transplantation:** Pasthistorypath in ('notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/s/p Heart Transplant/s/p heart transplant','notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/s/p Liver Transplant/s/p liver transplant','notes/Progress Notes/Past History/Organ Systems/Pulmonary/s/p Lung Transplant/s/p lung transplant','notes/Progress Notes/Past History/Organ Systems/Renal (R)/s/p Renal Transplant/s/p renal transplant') |
| **Immunosuppression or recent steroid use:**Pasthistorypath in ('notes/Progress Notes/Past History/Organ Systems/Endocrine (R)/Recent Steroid Use (for > 10 days)/recent steroid use for > 10 days','notes/Progress Notes/Past History/Organ Systems/Infectious Disease (R)/Immunosuppression within past 6 months/>= 20 mg prednisone per day or equivalent','notes/Progress Notes/Past History/Organ Systems/Infectious Disease (R)/Immunosuppression within past 6 months/both prednisone and other immunosuppressive medications','notes/Progress Notes/Past History/Organ Systems/Infectious Disease (R)/Immunosuppression within past 6 months/other immunosuppressive medications') |
| **Cancer therapy:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Chemotherapy/Alkylating agents (bleomycin, cytoxan, cyclophos.)','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Chemotherapy/Anthracyclines (adriamycin, daunorubicin)','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Chemotherapy/BMT within past 12 mos.','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Chemotherapy/chemotherapy within past 6 mos.','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Chemotherapy/chemotherapy within past mo.','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Chemotherapy/Cis-platinum' ,'notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Chemotherapy/Vincristine' ,'notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Radiation Therapy within past 6 months/bone','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Radiation Therapy within past 6 months/brain','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Radiation Therapy within past 6 months/liver','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Radiation Therapy within past 6 months/lung','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Radiation Therapy within past 6 months/nodes','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Radiation Therapy within past 6 months/other','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer Therapy/Radiation Therapy within past 6 months/primary site') |
| **Metastatic cancers or Hematological cancers:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Hematologic Malignancy/ALL','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Hematologic Malignancy/AML','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Hematologic Malignancy/CLL','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Hematologic Malignancy/CML','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Hematologic Malignancy/Hodgkins disease','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Hematologic Malignancy/leukemia - other','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Hematologic Malignancy/multiple myeloma','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Hematologic Malignancy/non-Hodgkins lymphoma','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Hematologic Malignancy/other hematologic malignancy','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Metastases/bone','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Metastases/brain','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Metastases/carcinomatosis','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Metastases/intra-abdominal','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Metastases/liver','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Metastases/lung','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Metastases/nodes','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Metastases/other') |
| **HIV infection:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Infectious Disease (R)/AIDS/AIDS','notes/Progress Notes/Past History/Organ Systems/Infectious Disease (R)/HIV (only)/HIV positive') |
| **Autoimmune disease:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Rheumatic/Dermato/Polymyositis/dermatomyositis','notes/Progress Notes/Past History/Organ Systems/Rheumatic/Rheumatoid Arthritis/rheumatoid arthritis','notes/Progress Notes/Past History/Organ Systems/Rheumatic/Scleroderma/scleroderma','notes/Progress Notes/Past History/Organ Systems/Rheumatic/SLE/SLE','notes/Progress Notes/Past History/Organ Systems/Rheumatic/Vasculitis/vasculitis') |
| **Arrhythmia:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Arrhythmias/atrial fibrillation - chronic','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Arrhythmias/atrial fibrillation - intermittent','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Arrhythmias/MAT','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Arrhythmias/sick sinus syndrome','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Arrhythmias/SVT- other','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Arrhythmias/ventricular ectopy','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Arrhythmias/ventricular fibrillation','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Arrhythmias/ventricular tachycardia') |
| **Coronary artery diseases:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Angina/angina','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Angina/angina - class I','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Angina/angina - class II','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Angina/angina - class III','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Angina/angina - class IV','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Angina/angina - severity unknown','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Coronary Artery Bypass/CABG - date unknown','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Coronary Artery Bypass/CABG - remote','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Coronary Artery Bypass/CABG - within 2 years','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Coronary Artery Bypass/CABG - within 5 years','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Coronary Artery Bypass/CABG - within 6 months','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Coronary Artery Bypass/multiple/multiple','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Myocardial Infarction/MI - date unknown','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Myocardial Infarction/MI - remote' ,'notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Myocardial Infarction/MI - within 2 years','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Myocardial Infarction/MI - within 5 years','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Myocardial Infarction/MI - within 6 months','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Myocardial Infarction/multiple/multiple','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Procedural Coronary Intervention/multiple/multiple' ,'notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Procedural Coronary Intervention/procedural coronary intervention - date unknown','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Procedural Coronary Intervention/procedural coronary intervention - remote','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Procedural Coronary Intervention/procedural coronary intervention - within 2 years','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Procedural Coronary Intervention/procedural coronary intervention - within 5 years','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Procedural Coronary Intervention/procedural coronary intervention - within 6 months') |
| **Heart failure:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Congestive Heart Failure/CHF','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Congestive Heart Failure/CHF - class I','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Congestive Heart Failure/CHF - class II','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Congestive Heart Failure/CHF - class III','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Congestive Heart Failure/CHF - class IV','notes/Progress Notes/Past History/Organ Systems/Cardiovascular (R)/Congestive Heart Failure/CHF - severity unknown') |
| **Diabetes:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Endocrine (R)/Insulin Dependent Diabetes/insulin dependent diabetes','notes/Progress Notes/Past History/Organ Systems/Endocrine (R)/Non-Insulin Dependent Diabetes/medication dependent','notes/Progress Notes/Past History/Organ Systems/Endocrine (R)/Non-Insulin Dependent Diabetes/non-medication dependent') |
| **Liver cirrhosis:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Cirrhosis/ascites','notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Cirrhosis/biopsy proven','notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Cirrhosis/clinical diagnosis','notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Cirrhosis/coma','notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Cirrhosis/encephalopathy','notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Cirrhosis/jaundice','notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Cirrhosis/UGI bleeding','notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Cirrhosis/varices') |
| **Peptic ulcer:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Peptic Ulcer Disease/peptic ulcer disease','notes/Progress Notes/Past History/Organ Systems/Gastrointestinal (R)/Peptic Ulcer Disease/peptic ulcer disease with h/o GI bleeding') |
| **Cancer history:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/bile duct','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/bladder','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/bone','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/brain','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/breast','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/colon','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/esophagus','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/head and neck','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/kidney','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/liver','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/lung','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/melanoma','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/none','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/other','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/ovary','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/pancreas - adenocarcinoma','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/pancreas - islet cell','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/prostate','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/sarcoma','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/stomach','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/testes','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/unknown','notes/Progress Notes/Past History/Organ Systems/Hematology/Oncology (R)/Cancer/Cancer-Primary Site/uterus') |
| **Stroke:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Neurologic/Strokes/multiple/multiple','notes/Progress Notes/Past History/Organ Systems/Neurologic/Strokes/stroke - date unknown','notes/Progress Notes/Past History/Organ Systems/Neurologic/Strokes/stroke - remote','notes/Progress Notes/Past History/Organ Systems/Neurologic/Strokes/stroke - within 2 years','notes/Progress Notes/Past History/Organ Systems/Neurologic/Strokes/stroke - within 5 years','notes/Progress Notes/Past History/Organ Systems/Neurologic/Strokes/stroke - within 6 months','notes/Progress Notes/Past History/Organ Systems/Neurologic/TIA(s)/multiple/multiple','notes/Progress Notes/Past History/Organ Systems/Neurologic/TIA(s)/TIA(s) - date unknown','notes/Progress Notes/Past History/Organ Systems/Neurologic/TIA(s)/TIA(s) - remote','notes/Progress Notes/Past History/Organ Systems/Neurologic/TIA(s)/TIA(s) - within 2 years','notes/Progress Notes/Past History/Organ Systems/Neurologic/TIA(s)/TIA(s) - within 5 years','notes/Progress Notes/Past History/Organ Systems/Neurologic/TIA(s)/TIA(s) - within 6 months') |
| **Asthma or COPD:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Pulmonary/Asthma/asthma','notes/Progress Notes/Past History/Organ Systems/Pulmonary/COPD/COPD - moderate','notes/Progress Notes/Past History/Organ Systems/Pulmonary/COPD/COPD - no limitations','notes/Progress Notes/Past History/Organ Systems/Pulmonary/COPD/COPD - severe') |
| **Respiratory failure:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Pulmonary/Respiratory Failure/multiple/multiple','notes/Progress Notes/Past History/Organ Systems/Pulmonary/Respiratory Failure/respiratory failure - date unknown','notes/Progress Notes/Past History/Organ Systems/Pulmonary/Respiratory Failure/respiratory failure - remote','notes/Progress Notes/Past History/Organ Systems/Pulmonary/Respiratory Failure/respiratory failure - within 2 years','notes/Progress Notes/Past History/Organ Systems/Pulmonary/Respiratory Failure/respiratory failure - within 5 years','notes/Progress Notes/Past History/Organ Systems/Pulmonary/Respiratory Failure/respiratory failure - within 6 months') |
| **Renal failure:**pasthistorypath in('notes/Progress Notes/Past History/Organ Systems/Renal (R)/Renal Failure/renal failure - hemodialysis','notes/Progress Notes/Past History/Organ Systems/Renal (R)/Renal Failure/renal failure - peritoneal dialysis','notes/Progress Notes/Past History/Organ Systems/Renal (R)/Renal Failure/renal failure- not currently dialyzed','notes/Progress Notes/Past History/Organ Systems/Renal (R)/Renal Insufficiency/renal insufficiency - baseline creatinine unknown','notes/Progress Notes/Past History/Organ Systems/Renal (R)/Renal Insufficiency/renal insufficiency - creatinine > 5','notes/Progress Notes/Past History/Organ Systems/Renal (R)/Renal Insufficiency/renal insufficiency - creatinine 2-3','notes/Progress Notes/Past History/Organ Systems/Renal (R)/Renal Insufficiency/renal insufficiency - creatinine 3-4','notes/Progress Notes/Past History/Organ Systems/Renal (R)/Renal Insufficiency/renal insufficiency - creatinine 4-5') |
| From the table ‘pasthistory’ in the eICU |