**S4 Table: Data Dictionary used in Network and Tables**

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| **Node Name(Network)** | **Description** |
| 1proc.cardio.or | first procedure category\_Operations on the cardiovascular system |
| 1proc.eye.or | first procedure category\_Operations on eye |
| 1proc.lymphatic.or | first procedure category\_Operations on the hemic and lymphatic system |
| admis.status.er | admission status\_ER |
| admis.status.na | admission status\_n/a |
| admis.status.urgt | admission status\_Urgent |
| admit.day.tue | admit day \_Tuesday |
| admit.severity | Admit Severity of Illness |
| age | age |
| arm | Admit Risk of Mortality |
| cms.dis.facility | cms\_discharge to another facility |
| cms.education | cms\_education\_level |
| cms.help.bath.bed | cms\_help to bathroom or bed |
| cms.home | cms\_discharge to home |
| cms.new.med | cms\_on new medication |
| cms.nonhispanic | cms\_not hispanic |
| cms.puertorican | cms\_origin or descent:puerto rican |
| cms.self.e.health | cms\_self\_evaluation.health |
| dis.day.sun | discharged day\_Sunday |
| dis.day.weds | discharged day\_Wednesday |
| dis.status.home | discharge status\_home |
| div.bmt.oncology | division\_bmt\_oncology |
| dx.mental.dis.2nd | secondary diagnosis\_mental disorders |
| dx.abdomian.pain | diagnosis\_abdominal pain |
| dx.anemia | diagnosis\_deficiency and other anemia |
| dx.arthropathies | diagnosis\_gout and other crystal arthropathies |
| dx.ccs1.digestive | diagnosis\_disease category level 1(ccs1)\_digestive disease |
| dx.ccs1.metabolic | diagnosis\_disease category level 1(ccs1)\_metabolic disease |
| dx.ccs1.neoplasms | diagnosis\_neoplasms |
| dx.chestpain | diagnosis\_nonspecific chest pain |
| dx.cong.hf | diagnosis\_congestive heart failure; nonhypertensive |
| dx.diabetes | diagnosis\_diabetes mellitus with complications |
| dx.hodgkin | diagnosis\_hodgkin's disease |
| dx.infec.dz.2nd | secondary diagnosis\_Infectious and parasitic diseases |
| dx.intesi.obs | diagnosis\_intestinal obstruction without hernia |
| dx.intestinal.inf | diagnosis\_intestinal infection |
| dx.neoplasm.2nd | secondary diagnosis\_neoplasm |
| dx.other.dis.stomach | diagnosis\_other disorders of stomach and duodenum |
| dx.other.endo.dis | diagnosis\_other endocrine disorders |
| dx.other.gi | diagnosis\_other gastrointestinal disorders |
| dx.pneumonia | diagnosis\_pneumonia(not by TB and sexually) |
| dx.syncope | diagnosis\_syncope |
| dx.uc | diagnosis\_regional enteritis and ulcerative colitis |
| dx.urinary.t.inf | diagnosis\_urinary tract infections |
| dx.viral.infection | diagnosis\_viral infection |
| gender.female | gender\_female |
| lab.baso.alowhigh | labs\_basophil %\_abnormal\_low\_high |
| lab.calcium.ahigh | labs\_calcium\_abnormal\_high |
| lab.calcium.n | labs\_calcium\_normal |
| lab.chloride.ahigh | labs\_chloride\_abnormal\_high |
| lab.chloride.n | labs\_chloride\_normal |
| lab.cr.ahigh | labs\_creatinine\_abnormal\_high |
| lab.eos.alow | labs\_eosinophil %\_abnormal\_low |
| lab.glu.alow | labs\_glucose\_abnormal\_low |
| lab.hg.ahigh | labs\_hemoglobin\_abnormal\_high |
| lab.k.alowhigh | labs\_potassium\_abnormal\_low\_high |
| lab.lymph.ahigh | labs\_lymphocyte %\_abnormal\_high |
| lab.lymph.n | labs\_lymphocyte %\_normal |
| lab.mch.alow | labs\_mean\_corp\_hbg\_abnormal\_low |
| lab.mcv.ahigh | labs\_mean\_corp\_volume\_abnormal\_high |
| lab.monocyte.alow | labs\_monocyte counts\_abnormal\_low |
| lab.neut.alowhigh | labs\_neutrophil %\_abnormal\_low\_high |
| lab.sodium.alow | labs\_sodium\_abnormal\_low |
| lab.sodium.alowhigh | labs\_sodium\_abnormal\_low\_high |
| lab.wbc.alowhigh | labs\_wbc\_abnormal\_low\_high |
| lab.wbc.n | labs\_wbc\_normal |
| los.exp | length\_of\_stay\_expected (2012 risk model) |
| los.obs | length\_of\_stay\_observed |
| num.cc | number of comorbidity and complications |
| num.dx | # of diagnosis |
| nycounty.kins | New York County\_Kings |
| race.aa | race\_african-american |
| race.asian | race\_asian |
| race.white | race\_white |
| religion.catholic | religion\_catholic |
| religion.jewish | religion\_jewish |
| rem.riskmodel | Relative Expected Mortality (2012 Risk Model) |
| rx.acetaminophen | medication\_acetaminophen |
| rx.docusate | medication\_docusate sodium |
| rx.emtricitabine | medication\_emtricitabine/tenofovir |
| rx.enoxaparin | medication\_enoxaparin sodium |
| rx.ergocalciferol | medication\_ergocalciferol(vitamin D2) |
| rx.esomeprazole | medication\_esomeprazole capsule |
| rx.furosemide | medicaion\_furosemide |
| rx.loratadine | medication\_loratadine |
| rx.lorazepam | medication\_lorazepam injection |
| rx.metoprolol | medication\_metoprolol |
| rx.montelukast | medication\_montelukast sodium |
| rx.morphine | medication\_morphine injection |
| rx.multivit.min | medication\_multivitamin\_Tx-Iron-Ca-FA-Min\_Oral |
| rx.oxycodone | medication\_oxycodone/acetaminophen |
| rx.pneumococcal.vac | medicaion\_pneumococcal 23\_val p\_sac vac |
| rx.polyethyleneclycol | medication\_polyethylene glycol  |
| rx.pregabalin | medication\_pregabalin |
| rx.thiamine | medication\_thiamine |
| rx.trazodone | medication\_trazodone\_hcl |
| rx.vancomycin | medication\_vancomycin injection |
| rx.warfarin | medication\_warfarin sodium |
| rx.zolpidem | medication\_zolpidem |
| uhc.2nd.commerial | UHC secondary payer\_commerial |
| uhc.primary.hmo | UHC primary payer\_HMO |
| uhc.primary.medicare | UHC primary\_payer\_medicare traditional\_indemnity |