HCUP Summary Statistics Report: NIS 2016 Severity File Means of Continuous Data Elements

Variable / Label	N	N Miss	Minimum	Maximum	Mean	Std Dev
HOSP_NIS : NIS hospital number	7,135,090	0	10,001.00	90,536.00	50,946.28	24,439.73
KEY_NIS : NIS record number	7,135,090	0	10,000,001.00	90,980,183.00	51,126,070.10	24,421,651.27
APRDRG : All Patient Refined DRG	7,135,090	0	1.00	956.00	411.89	237.41
APRDRG_Risk_Mortality : All Patient Refined DRG: Risk of Mortality Subclass	7,135,090	0	0.00	4.00	1.74	0.96
APRDRG_Severity : All Patient Refined DRG: Severity of Illness Subclass	7,135,090	0	0.00	4.00	2.07	0.92

APRDRG	Frequency	Percent of Total
1: Liver transplant &/or intestinal transplant	1,462	0.02%
2: Heart &/or lung transplant	1,113	0.02%
3: Bone marrow transplant	3,777	0.05%
4: Tracheostomy w MV 96+ hours w extensive procedure or ECMO	10,573	0.15%
5: Tracheostomy w MV 96+ hours w/o extensive procedure	5,728	0.08%
6: Pancreas transplant	169	0.00%
20: Craniotomy for trauma	4,167	0.06%
21: Craniotomy except for trauma	25,288	0.35%
22: Ventricular shunt procedures	4,124	0.06%
23: Spinal procedures	6,291	0.09%
24: Extracranial vascular procedures	25,088	0.35%
26: Other nervous system & related procedures	4,531	0.06%
40: Spinal disorders & injuries	2,917	0.04%
41: Nervous system malignancy	9,348	0.13%
42: Degenerative nervous system disorders exc mult sclerosis	17,971	0.25%
43: Multiple sclerosis & other demyelinating diseases	6,417	0.09%
44: Intracranial hemorrhage	18,396	0.26%
45: CVA & precerebral occlusion w infarct	93,552	1.31%
46: Nonspecific CVA & precerebral occlusion w/o infarct	2,507	0.04%
47: Transient ischemia	22,777	0.32%
48: Peripheral, cranial & autonomic nerve disorders	15,047	0.21%
49: Bacterial & tuberculous infections of nervous system	3,178	0.04%
50: Non-bacterial infections of nervous system exc viral meningitis	4,429	0.06%
51: Viral meningitis	2,778	0.04%
52: Nontraumatic stupor & coma	26,395	0.37%
53: Seizure	54,907	0.77%
54: Migraine & other headaches	14,551	0.20%
55: Head trauma w coma >1 hr or hemorrhage	22,942	0.32%
56: Brain contusion/laceration & complicated skull Fx, coma < 1 hr or no coma	662	0.01%
57: Concussion, closed skull Fx nos,uncomplicated intracranial injury, coma < 1 hr or no coma	6,694	0.09%

APRDRG	Frequency	Percent of Total
58: Other disorders of nervous system	42,743	0.60%
70: Orbital procedures	765	0.01%
73: Eye procedures except orbit	1,126	0.02%
80: Acute major eye infections	1,443	0.02%
82: Eye disorders except major infections	4,501	0.06%
89: Major cranial/facial bone procedures	3,546	0.05%
90: Major larynx & trachea procedures	1,021	0.01%
91: Other major head & neck procedures	1,618	0.02%
92: Facial bone procedures except major cranial/facial bone procedures	4,409	0.06%
93: Sinus & mastoid procedures	723	0.01%
95: Cleft lip & palate repair	378	0.01%
97: Tonsil & adenoid procedures	3,241	0.05%
98: Other ear, nose, mouth & throat procedures	6,596	0.09%
110: Ear, nose, mouth, throat, cranial/facial malignancies	1,627	0.02%
111: Vertigo & other labyrinth disorders	8,353	0.12%
113: Infections of upper respiratory tract	21,862	0.31%
114: Dental & oral diseases & injuries	6,740	0.09%
115: Other ear, nose, mouth,throat & cranial/facial diagnoses	9,962	0.14%
120: Major respiratory & chest procedures	14,568	0.20%
121: Other respiratory & chest procedures	12,494	0.18%
130: Respiratory system diagnosis w ventilator support 96+ hours	10,354	0.15%
131: Cystic fibrosis - pulmonary disease	3,795	0.05%
132: BPD & oth chronic respiratory diseases arising in perinatal period	1,104	0.02%
133: Respiratory failure	81,977	1.15%
134: Pulmonary embolism	35,917	0.50%
135: Major chest & respiratory trauma	14,275	0.20%
136: Respiratory malignancy	17,153	0.24%
137: Major respiratory infections & inflammations	45,088	0.63%
138: Bronchiolitis & RSV pneumonia	19,341	0.27%
139: Other pneumonia	143,799	2.02%

APRDRG	Frequency	Percent of Total
140: Chronic obstructive pulmonary disease	125,270	1.76%
141: Asthma	37,295	0.52%
142: Interstitial & alveolar lung diseases	5,977	0.08%
143: Other respiratory diagnoses except signs, symptoms & minor diagnoses	22,639	0.32%
144: Respiratory signs, symptoms & minor diagnoses	23,100	0.32%
160: Major cardiothoracic repair of heart anomaly	925	0.01%
161: Cardiac defibrillator & heart assist implant	9,413	0.13%
162: Cardiac valve procedures w AMI or complex PDX	3,352	0.05%
163: Cardiac valve procedures w/o AMI or complex PDX	15,559	0.22%
165: Coronary bypass w AMI or complex PDX	11,437	0.16%
166: Coronary bypass w/o AMI or complex PDX	22,401	0.31%
167: Other cardiothoracic & thoracic vascular procedures	11,120	0.16%
169: Major abdominal vascular procedures	7,627	0.11%
170: Permanent cardiac pacemaker implant w AMI, heart failure or shock	876	0.01%
171: Perm cardiac pacemaker implant w/o AMI, heart failure or shock	18,066	0.25%
174: Percutaneous coronary intervention w AMI	60,030	0.84%
175: Percutaneous coronary intervention w/o AMI	45,009	0.63%
176: Cardiac pacemaker & defibrillator device replacement	2,766	0.04%
177: Cardiac pacemaker & defibrillator revision except device replacement	1,854	0.03%
180: Other circulatory system procedures	5,326	0.07%
181: Lower extremity arterial procedures	28,567	0.40%
182: Other peripheral vascular procedures	18,729	0.26%
190: Acute myocardial infarction	56,181	0.79%
191: Cardiac catheterization for coronary artery disease	17,427	0.24%
192: Cardiac catheterization for other non-coronary conditions	41,441	0.58%
193: Acute & subacute endocarditis	1,748	0.02%
194: Heart failure	192,268	2.69%
196: Cardiac arrest & shock	3,926	0.06%
197: Peripheral & other vascular disorders	33,467	0.47%
198: Angina pectoris & coronary atherosclerosis	29,375	0.41%

APRDRG	Frequency	Percent of Total
199: Hypertension	18,396	0.26%
200: Cardiac structural & valvular disorders	3,457	0.05%
201: Cardiac arrhythmia & conduction disorders	103,285	1.45%
203: Chest pain	23,850	0.33%
204: Syncope & collapse	30,362	0.43%
205: Cardiomyopathy	1,328	0.02%
206: Malfunction,reaction,complication of cardiac/vasc device or procedure	7,804	0.11%
207: Other circulatory system diagnoses	18,097	0.25%
220: Major stomach, esophageal & duodenal procedures	19,990	0.28%
221: Major small & large bowel procedures	65,700	0.92%
222: Other stomach, esophageal & duodenal procedures	8,852	0.12%
223: Other small & large bowel procedures	17,883	0.25%
224: Peritoneal adhesiolysis	6,338	0.09%
225: Appendectomy	30,355	0.43%
226: Anal procedures	3,078	0.04%
227: Hernia procedures except inguinal, femoral & umbilical	16,472	0.23%
228: Inguinal, femoral & umbilical hernia procedures	5,337	0.07%
229: Other digestive system & abdominal procedures	11,601	0.16%
240: Digestive malignancy	12,908	0.18%
241: Peptic ulcer & gastritis	37,200	0.52%
242: Major esophageal disorders	4,055	0.06%
243: Other esophageal disorders	15,435	0.22%
244: Diverticulitis & diverticulosis	43,758	0.61%
245: Inflammatory bowel disease	16,674	0.23%
246: Gastrointestinal vascular insufficiency	7,200	0.10%
247: Intestinal obstruction	51,210	0.72%
248: Major gastrointestinal & peritoneal infections	30,505	0.43%
249: Other gastroenteritis, nausea & vomiting	57,877	0.81%
251: Abdominal pain	16,577	0.23%
252: Malfunction, reaction & complication of GI device or procedure	10,520	0.15%

APRDRG	Frequency	Percent of Total
253: Other & unspecified gastrointestinal hemorrhage	41,866	0.59%
254: Other digestive system diagnoses	54,152	0.76%
260: Major pancreas, liver & shunt procedures	7,008	0.10%
261: Major biliary tract procedures	4,466	0.06%
262: Cholecystectomy except laparoscopic	4,743	0.07%
263: Laparoscopic cholecystectomy	50,823	0.71%
264: Other hepatobiliary, pancreas & abdominal procedures	10,479	0.15%
279: Hepatic coma & other major acute liver disorders	16,106	0.23%
280: Alcoholic liver disease	13,156	0.18%
281: Malignancy of hepatobiliary system & pancreas	10,951	0.15%
282: Disorders of pancreas except malignancy	54,615	0.77%
283: Other disorders of the liver	12,141	0.17%
284: Disorders of gallbladder & biliary tract	19,769	0.28%
301: Hip joint replacement	111,181	1.56%
302: Knee joint replacement	158,577	2.22%
303: Dorsal & lumbar fusion proc for curvature of back	4,429	0.06%
304: Dorsal & lumbar fusion proc except for curvature of back	52,832	0.74%
305: Amputation of lower limb except toes	12,712	0.18%
308: Hip & femur fracture repair	46,217	0.65%
309: Other significant hip & femur surgery	9,092	0.13%
310: Intervertebral disc excision & decompression	14,822	0.21%
312: Skin graft, except hand, for musculoskeletal & connective tissue diagnoses	2,202	0.03%
313: Knee & lower leg procedures except foot	32,514	0.46%
314: Foot & toe procedures	16,151	0.23%
315: Shoulder, upper arm & forearm procedures except joint replacement	27,011	0.38%
316: Hand & wrist procedures	4,849	0.07%
317: Tendon, muscle & other soft tissue procedures	7,964	0.11%
320: Other musculoskeletal system & connective tissue procedures	14,847	0.21%
321: Cervical spinal fusion & other back/neck proc exc disc excis/decomp	39,375	0.55%
322: Shoulder & elbow joint replacement	10,135	0.14%

APRDRG	Frequency	Percent of Total
340: Fracture of femur	6,403	0.09%
341: Fracture of pelvis or dislocation of hip	7,707	0.11%
342: Fractures & dislocations except femur, pelvis & back	15,506	0.22%
343: Musculoskeletal malignancy & pathol fracture d/t muscskel malig	6,153	0.09%
344: Osteomyelitis, septic arthritis & other musculoskeletal infections	12,793	0.18%
346: Connective tissue disorders	8,365	0.12%
347: Other back & neck disorders, fractures & injuries	37,168	0.52%
349: Malfunction, reaction, complic of orthopedic device or procedure	6,508	0.09%
351: Other musculoskeletal system & connective tissue diagnoses	34,496	0.48%
361: Skin graft for skin & subcutaneous tissue diagnoses	7,045	0.10%
362: Mastectomy procedures	6,214	0.09%
363: Breast procedures except mastectomy	3,896	0.05%
364: Other skin, subcutaneous tissue & related procedures	19,310	0.27%
380: Skin ulcers	10,958	0.15%
381: Major skin disorders	2,046	0.03%
382: Malignant breast disorders	1,973	0.03%
383: Cellulitis & other skin infections	99,467	1.39%
384: Contusion, open wound & other trauma to skin & subcutaneous tissue	10,786	0.15%
385: Other skin, subcutaneous tissue & breast disorders	8,395	0.12%
401: Pituitary & adrenal procedures	3,262	0.05%
403: Procedures for obesity	34,507	0.48%
404: Thyroid, parathyroid & thyroglossal procedures	4,289	0.06%
405: Other procedures for endocrine, nutritional & metabolic disorders	1,640	0.02%
420: Diabetes	72,424	1.02%
421: Malnutrition, failure to thrive & other nutritional disorders	8,287	0.12%
422: Hypovolemia & related electrolyte disorders	30,472	0.43%
423: Inborn errors of metabolism	1,785	0.03%
424: Other endocrine disorders	14,669	0.21%
425: Electrolyte disorders except hypovolemia related	35,750	0.50%
440: Kidney transplant	3,490	0.05%

APRDRG	Frequency	Percent of Total
441: Major bladder procedures	3,987	0.06%
442: Kidney & urinary tract procedures for malignancy	9,349	0.13%
443: Kidney & urinary tract procedures for nonmalignancy	17,106	0.24%
444: Renal dialysis access device procedure only	2,102	0.03%
445: Other bladder procedures	1,039	0.01%
446: Urethral & transurethral procedures	10,312	0.14%
447: Other kidney, urinary tract & related procedures	3,031	0.04%
461: Kidney & urinary tract malignancy	2,650	0.04%
462: Nephritis & nephrosis	2,130	0.03%
463: Kidney & urinary tract infections	97,434	1.37%
465: Urinary stones & acquired upper urinary tract obstruction	15,233	0.21%
466: Malfunction, reaction, complic of genitourinary device or proc	29,077	0.41%
468: Other kidney & urinary tract diagnoses, signs & symptoms	11,924	0.17%
469: Acute kidney injury	101,085	1.42%
470: Chronic kidney disease	20,328	0.28%
480: Major male pelvic procedures	7,855	0.11%
481: Penis procedures	1,240	0.02%
482: Transurethral prostatectomy	3,604	0.05%
483: Testes & scrotal procedures	861	0.01%
484: Other male reproductive system & related procedures	5,652	0.08%
500: Malignancy, male reproductive system	1,308	0.02%
501: Male reproductive system diagnoses except malignancy	6,794	0.10%
510: Pelvic evisceration, radical hysterectomy & other radical GYN procs	1,579	0.02%
511: Uterine & adnexa procedures for ovarian & adnexal malignancy	2,716	0.04%
512: Uterine & adnexa procedures for non-ovarian & non-adnexal malig	3,574	0.05%
513: Uterine & adnexa procedures for non-malignancy except leiomyoma	21,735	0.30%
514: Female reproductive system reconstructive procedures	2,141	0.03%
517: Dilation & curettage for non-obstetric diagnoses	1,206	0.02%
518: Other female reproductive system & related procedures	2,999	0.04%
519: Uterine & adnexa procedures for leiomyoma	18,309	0.26%

APRDRG	Frequency	Percent of Total
530: Female reproductive system malignancy	3,007	0.04%
531: Female reproductive system infections	4,308	0.06%
532: Menstrual & other female reproductive system disorders	4,361	0.06%
540: Cesarean delivery	243,791	3.42%
541: Vaginal delivery w sterilization &/or D&C	16,821	0.24%
542: Vaginal delivery w complicating procedures exc sterilization &/or D&C	13,046	0.18%
544: D&C, aspiration curettage or hysterotomy for obstetric diagnoses	2,634	0.04%
545: Ectopic pregnancy procedure	2,050	0.03%
546: Other O.R. proc for obstetric diagnoses except delivery diagnoses	1,671	0.02%
560: Vaginal delivery	483,198	6.77%
561: Postpartum & post abortion diagnoses w/o procedure	9,449	0.13%
563: Preterm labor	7,384	0.10%
564: Abortion w/o D&C, aspiration curettage or hysterotomy	828	0.01%
565: False labor	1,832	0.03%
566: Other antepartum diagnoses	34,480	0.48%
580: Neonate, transferred <5 days old, not born here	517	0.01%
581: Neonate, transferred < 5 days old, born here	11,087	0.16%
583: Neonate w ECMO	209	0.00%
588: Neonate bwt <1500g w major procedure	691	0.01%
589: Neonate bwt <500g or GA <24 weeks	2,175	0.03%
591: Neonate birthwt 500-749g w/o major procedure	996	0.01%
593: Neonate birthwt 750-999g w/o major procedure	1,910	0.03%
602: Neonate bwt 1000-1249g w resp dist synd/oth maj resp or maj anom	1,924	0.03%
603: Neonate birthwt 1000-1249g w or w/o other significant condition	1,096	0.02%
607: Neonate bwt 1250-1499g w resp dist synd/oth maj resp or maj anom	2,071	0.03%
608: Neonate bwt 1250-1499g w or w/o other significant condition	1,088	0.02%
609: Neonate bwt 1500-2499g w major procedure	492	0.01%
611: Neonate birthwt 1500-1999g w major anomaly	1,366	0.02%
612: Neonate bwt 1500-1999g w resp dist synd/oth maj resp cond	3,196	0.04%
613: Neonate birthwt 1500-1999g w congenital/perinatal infection	415	0.01%

APRDRG	Frequency	Percent of Total
614: Neonate bwt 1500-1999g w or w/o other significant condition	6,548	0.09%
621: Neonate bwt 2000-2499g w major anomaly	1,717	0.02%
622: Neonate bwt 2000-2499g w resp dist synd/oth maj resp cond	3,270	0.05%
623: Neonate bwt 2000-2499g w congenital/perinatal infection	721	0.01%
625: Neonate bwt 2000-2499g w other significant condition	4,130	0.06%
626: Neonate bwt 2000-2499g, normal newborn or neonate w other problem	22,369	0.31%
630: Neonate birthwt >2499g w major cardiovascular procedure	782	0.01%
631: Neonate birthwt >2499g w other major procedure	2,183	0.03%
633: Neonate birthwt >2499g w major anomaly	12,682	0.18%
634: Neonate, birthwt >2499g w resp dist synd/oth maj resp cond	10,380	0.15%
636: Neonate birthwt >2499g w congenital/perinatal infection	5,394	0.08%
639: Neonate birthwt >2499g w other significant condition	22,024	0.31%
640: Neonate birthwt >2499g, normal newborn or neonate w other problem	660,559	9.26%
650: Splenectomy	1,144	0.02%
651: Other procedures of blood & blood-forming organs	1,561	0.02%
660: Major hematologic/immunologic diag exc sickle cell crisis & coagul	17,980	0.25%
661: Coagulation & platelet disorders	6,732	0.09%
662: Sickle cell anemia crisis	18,141	0.25%
663: Other anemia & disorders of blood & blood-forming organs	38,457	0.54%
680: Major O.R. procedures for lymphatic/hematopoietic/other neoplasms	3,068	0.04%
681: Other O.R. procedures for lymphatic/hematopoietic/other neoplasms	5,674	0.08%
690: Acute leukemia	5,067	0.07%
691: Lymphoma, myeloma & non-acute leukemia	9,011	0.13%
692: Radiotherapy	490	0.01%
694: Lymphatic & other malignancies & neoplasms of uncertain behavior	5,406	0.08%
695: Chemotherapy for acute leukemia	6,409	0.09%
696: Other chemotherapy	22,075	0.31%
710: Infectious & parasitic diseases including HIV w O.R. procedure	56,305	0.79%
711: Post-op, post-trauma, other device infections w O.R. procedure	14,337	0.20%
720: Septicemia & disseminated infections	321,581	4.51%

APRDRG	Frequency	Percent of Total
721: Post-operative, post-traumatic, other device infections	24,371	0.34%
722: Fever	9,485	0.13%
723: Viral illness	9,909	0.14%
724: Other infectious & parasitic diseases	7,548	0.11%
740: Mental illness diagnosis w O.R. procedure	874	0.01%
750: Schizophrenia	64,422	0.90%
751: Major depressive disorders & other/unspecified psychoses	86,529	1.21%
752: Disorders of personality & impulse control	2,142	0.03%
753: Bipolar disorders	67,351	0.94%
754: Depression except major depressive disorder	28,777	0.40%
755: Adjustment disorders & neuroses except depressive diagnoses	9,005	0.13%
756: Acute anxiety & delirium states	8,806	0.12%
757: Organic mental health disturbances	13,301	0.19%
758: Behavioral disorders	4,499	0.06%
759: Eating disorders	935	0.01%
760: Other mental health disorders	2,232	0.03%
770: Drug & alcohol abuse or dependence, left against medical advice	9,520	0.13%
772: Alcohol & drug dependence w rehab or rehab/detox therapy	6,879	0.10%
773: Opioid abuse & dependence	19,419	0.27%
774: Cocaine abuse & dependence	4,587	0.06%
775: Alcohol abuse & dependence	44,836	0.63%
776: Other drug abuse & dependence	6,061	0.08%
791: O.R. procedure for other complications of treatment	10,504	0.15%
811: Allergic reactions	5,376	0.08%
812: Poisoning of medicinal agents	47,299	0.66%
813: Other complications of treatment	13,635	0.19%
815: Other injury, poisoning & toxic effect diagnoses	3,580	0.05%
816: Toxic effects of non-medicinal substances	10,915	0.15%
841: Extensive 3rd degree burns w skin graft	243	0.00%
842: Burns w skin graft except extensive 3rd degree burns	2,588	0.04%

APRDRG	Frequency	Percent of Total
843: Extensive 3rd degree or full thickness burns w/o skin graft	99	0.00%
844: Partial thickness burns w/o skin graft	3,260	0.05%
850: Procedure w diag of rehab, aftercare or oth contact w health service	9,744	0.14%
860: Rehabilitation	11,066	0.16%
861: Signs, symptoms & other factors influencing health status	33,291	0.47%
862: Other aftercare & convalescence	28,811	0.40%
863: Neonatal aftercare	567	0.01%
890: HIV w multiple major HIV related conditions	4,443	0.06%
892: HIV w major HIV related condition	4,091	0.06%
893: HIV w multiple significant HIV related conditions	839	0.01%
894: HIV w one signif HIV cond or w/o signif related cond	2,154	0.03%
910: Craniotomy for multiple significant trauma	824	0.01%
911: Extensive abdominal/thoracic procedures for mult significant trauma	3,214	0.05%
912: Musculoskeletal & other procedures for multiple significant trauma	10,182	0.14%
930: Multiple significant trauma w/o O.R. procedure	8,398	0.12%
950: Extensive procedure unrelated to principal diagnosis	16,920	0.24%
951: Moderately extensive procedure unrelated to principal diagnosis	32,365	0.45%
952: Nonextensive procedure unrelated to principal diagnosis	12,302	0.17%
955: Principal diagnosis invalid as discharge diagnosis	255	0.00%
956: Ungroupable	5,465	0.08%

APRDRG_Risk_Mortality	Frequency	Percent of Total
0: No class specified	5,720	0.08%
1: Minor likelihood of dying	3,936,880	55.18%
2: Moderate likelihood of dying	1,538,492	21.56%
3: Major likelihood of dying	1,182,376	16.57%
4: Extreme likelihood of dying	471,622	6.61%

APRDRG_Severity	Frequency	Percent of Total
0: No class specified	5,720	0.08%
1: Minor loss of function (includes cases with no comorbidity or complications)	2,258,463	31.65%
2: Moderate loss of function	2,631,890	36.89%
3: Major loss of function	1,716,358	24.06%
4: Extreme loss of function	522,659	7.33%