## HCUP Summary Statistics Report: NIS 2018 Severity File Means of Continuous Data Elements

Variable / Label	N	N Miss	Minimum	Maximum	Mean	Std Dev
HOSP_NIS : NIS hospital number	7,105,498	0	10,001.00	90,533.00	51,095.01	24,394.38
KEY_NIS: NIS record number	7,105,498	0	10,000,001.00	90,973,018.00	51,267,023.48	24,377,632.15
APRDRG : All Patient Refined DRG	7,105,498	0	1.00	956.00	410.44	238.27
APRDRG_Risk_Mortality: All Patient Refined DRG: Risk of Mortality Subclass	7,105,498	0	0.00	4.00	1.83	1.00
APRDRG_Severity : All Patient Refined DRG: Severity of Illness Subclass	7,105,498	0	0.00	4.00	2.19	0.97

APRDRG	Frequency	Percent of Total
1: Liver transplant &/or intestinal transplant	1,560	0.02%
2: Heart &/or lung transplant	1,187	0.02%
4: Tracheostomy w MV 96+ hours w extensive procedure	7,072	0.10%
5: Tracheostomy w MV 96+ hours w/o extensive procedure	6,755	0.10%
6: Pancreas transplant	193	0.00%
7: Allogeneic bone marrow transplant	1,728	0.02%
8: Autologous bone marrow transplant	2,325	0.03%
9: Extracorporeal membrane oxygenation (ECMO)	1,689	0.02%
10: Head trauma with deep coma	342	0.00%
20: Craniotomy for trauma	4,918	0.07%
21: Craniotomy except for trauma	27,000	0.38%
22: Ventricular shunt procedures	3,998	0.06%
23: Spinal procedures	5,874	0.08%
24: Extracranial vascular procedures	28,115	0.40%
26: Other nervous system & related procedures	3,834	0.05%
40: Spinal disorders & injuries	2,924	0.04%
41: Nervous system malignancy	9,591	0.13%
42: Degenerative nervous system disorders exc mult sclerosis	28,268	0.40%
43: Multiple sclerosis & other demyelinating diseases	6,386	0.09%
44: Intracranial hemorrhage	18,746	0.26%
45: CVA & precerebral occlusion w infarct	96,611	1.36%
46: Nonspecific CVA & precerebral occlusion w/o infarct	2,807	0.04%
47: Transient ischemia	19,005	0.27%
48: Peripheral, cranial & autonomic nerve disorders	14,870	0.21%
49: Bacterial & tuberculous infections of nervous system	3,528	0.05%
50: Non-bacterial infections of nervous system exc viral meningitis	4,391	0.06%
51: Viral meningitis	2,383	0.03%
52: Alteration in consciousness	28,294	0.40%
53: Seizure	56,322	0.79%
54: Migraine & other headaches	12,284	0.17%

APRDRG	Frequency	Percent of Total
55: Head trauma w coma >1 hr or hemorrhage	24,579	0.35%
56: Brain contusion/laceration & complicated skull Fx, coma < 1 hr or no coma	562	0.01%
57: Concussion, closed skull Fx nos,uncomplicated intracranial injury, coma < 1 hr or no coma	5,995	0.08%
58: Other disorders of nervous system	41,491	0.58%
59: Anoxic & other severe brain damage	1,195	0.02%
73: Orbit and eye procedures	1,727	0.02%
82: Eye infections and other eye disorders	6,018	0.08%
89: Major cranial/facial bone procedures	3,607	0.05%
91: Other major head & neck procedures	2,603	0.04%
92: Facial bone procedures except major cranial/facial bone procedures	4,226	0.06%
95: Cleft lip & palate repair	407	0.01%
97: Tonsil & adenoid procedures	2,126	0.03%
98: Other ear, nose, mouth & throat procedures	6,260	0.09%
110: Ear, nose, mouth, throat, cranial/facial malignancies	1,879	0.03%
111: Vertigo & other labyrinth disorders	7,907	0.11%
113: Infections of upper respiratory tract	36,732	0.52%
114: Dental diseases and disorders	2,448	0.03%
115: Other ear, nose, mouth,throat & cranial/facial diagnoses	13,916	0.20%
120: Major respiratory & chest procedures	8,365	0.12%
121: Other respiratory & chest procedures	17,028	0.24%
130: Respiratory system diagnosis w ventilator support 96+ hours	10,990	0.15%
131: Cystic fibrosis - pulmonary disease	3,809	0.05%
132: BPD & oth chronic respiratory diseases arising in perinatal period	1,498	0.02%
133: Respiratory failure	90,750	1.28%
134: Pulmonary embolism	37,093	0.52%
135: Major chest & respiratory trauma	16,456	0.23%
136: Respiratory malignancy	17,319	0.24%
137: Major respiratory infections & inflammations	47,396	0.67%
138: Bronchiolitis & RSV pneumonia	20,444	0.29%
139: Other pneumonia	138,899	1.95%

APRDRG	Frequency	Percent of Total
140: Chronic obstructive pulmonary disease	111,278	1.57%
141: Asthma	35,295	0.50%
142: Interstitial & alveolar lung diseases	6,305	0.09%
143: Other respiratory diagnoses except signs, symptoms & minor diagnoses	21,839	0.31%
144: Respiratory signs, symptoms & minor diagnoses	8,730	0.12%
145: Acute bronchitis and related symptoms	14,347	0.20%
160: Major cardiothoracic repair of heart anomaly	1,190	0.02%
161: Cardiac defibrillator & heart assist implant	11,839	0.17%
162: Cardiac valve procedures w AMI or complex PDX	2,871	0.04%
163: Cardiac valve procedures w/o AMI or complex PDX	17,641	0.25%
165: Coronary bypass w AMI or complex PDX	11,045	0.16%
166: Coronary bypass w/o AMI or complex PDX	22,194	0.31%
167: Other cardiothoracic & thoracic vascular procedures	7,225	0.10%
169: Major abdominal vascular procedures	7,762	0.11%
170: Permanent cardiac pacemaker implant w AMI, heart failure or shock	364	0.01%
171: Perm cardiac pacemaker implant w/o AMI, heart failure or shock	19,834	0.28%
174: Percutaneous coronary intervention w AMI	60,627	0.85%
175: Percutaneous coronary intervention w/o AMI	52,179	0.73%
176: Cardiac pacemaker & defibrillator device replacement	2,670	0.04%
177: Cardiac pacemaker & defibrillator revision except device replacement	1,012	0.01%
180: Other circulatory system procedures	6,054	0.09%
181: Lower extremity arterial procedures	28,174	0.40%
182: Other peripheral vascular procedures	17,618	0.25%
190: Acute myocardial infarction	56,538	0.80%
191: Cardiac catheterization for coronary artery disease	15,952	0.22%
192: Cardiac catheterization for other non-coronary conditions	44,464	0.63%
193: Acute & subacute endocarditis	1,936	0.03%
194: Heart failure	221,757	3.12%
196: Cardiac arrest & shock	4,747	0.07%
197: Peripheral & other vascular disorders	30,964	0.44%

APRDRG	Frequency	Percent of Total
198: Angina pectoris & coronary atherosclerosis	24,317	0.34%
199: Hypertension	29,487	0.41%
200: Cardiac structural & valvular disorders	3,426	0.05%
201: Cardiac arrhythmia & conduction disorders	100,406	1.41%
203: Chest pain	18,467	0.26%
204: Syncope & collapse	28,177	0.40%
205: Cardiomyopathy	1,249	0.02%
206: Malfunction,reaction,complication of cardiac/vasc device or procedure	9,283	0.13%
207: Other circulatory system diagnoses	19,835	0.28%
220: Major stomach, esophageal & duodenal procedures	13,691	0.19%
222: Other stomach, esophageal & duodenal procedures	3,613	0.05%
223: Other small & large bowel procedures	6,830	0.10%
224: Peritoneal adhesiolysis	7,305	0.10%
226: Anal procedures	2,545	0.04%
227: Hernia procedures except inguinal, femoral & umbilical	14,749	0.21%
228: Inguinal, femoral & umbilical hernia procedures	5,200	0.07%
229: Other digestive system & abdominal procedures	6,775	0.10%
230: Major small bowel procedures	29,528	0.42%
231: Major large bowel procedures	44,213	0.62%
232: Gastric fundoplication	642	0.01%
233: Appendectomy with complex principal diagnosis	12,113	0.17%
234: Appendectomy without complex principal diagnosis	13,127	0.18%
240: Digestive malignancy	14,725	0.21%
241: Peptic ulcer & gastritis	42,780	0.60%
242: Major esophageal disorders	8,980	0.13%
243: Other esophageal disorders	12,766	0.18%
244: Diverticulitis & diverticulosis	45,062	0.63%
245: Inflammatory bowel disease	16,261	0.23%
246: Gastrointestinal vascular insufficiency	6,067	0.09%
247: Intestinal obstruction	51,162	0.72%

APRDRG	Frequency	Percent of Total
248: Major gastrointestinal & peritoneal infections	28,944	0.41%
249: Other gastroenteritis, nausea & vomiting	51,139	0.72%
251: Abdominal pain	11,322	0.16%
252: Malfunction, reaction & complication of GI device or procedure	11,195	0.16%
253: Other & unspecified gastrointestinal hemorrhage	38,230	0.54%
254: Other digestive system diagnoses	55,031	0.77%
260: Major pancreas, liver & shunt procedures	6,196	0.09%
261: Major biliary tract procedures	1,082	0.02%
263: Cholecystectomy	52,042	0.73%
264: Other hepatobiliary, pancreas & abdominal procedures	1,968	0.03%
279: Hepatic coma & other major acute liver disorders	18,862	0.27%
280: Alcoholic liver disease	20,120	0.28%
281: Malignancy of hepatobiliary system & pancreas	12,485	0.18%
282: Disorders of pancreas except malignancy	54,158	0.76%
283: Other disorders of the liver	16,130	0.23%
284: Disorders of gallbladder & biliary tract	23,018	0.32%
301: Hip joint replacement	116,665	1.64%
302: Knee joint replacement	137,788	1.94%
303: Dorsal & lumbar fusion proc for curvature of back	4,556	0.06%
304: Dorsal & lumbar fusion proc except for curvature of back	53,614	0.75%
305: Amputation of lower limb except toes	15,353	0.22%
308: Hip & femur fracture repair	48,181	0.68%
309: Other significant hip & femur surgery	8,393	0.12%
310: Intervertebral disc excision & decompression	11,889	0.17%
312: Skin graft, except hand, for musculoskeletal & connective tissue diagnoses	2,024	0.03%
313: Knee & lower leg procedures except foot	31,637	0.45%
314: Foot & toe procedures	16,457	0.23%
315: Shoulder, upper arm & forearm procedures except joint replacement	14,235	0.20%
316: Hand & wrist procedures	5,048	0.07%
317: Tendon, muscle & other soft tissue procedures	7,942	0.11%

APRDRG	Frequency	Percent of Total
320: Other musculoskeletal system & connective tissue procedures	14,094	0.20%
321: Cervical spinal fusion & other back/neck proc exc disc excis/decomp	31,164	0.44%
322: Shoulder & elbow joint replacement	25,777	0.36%
340: Fracture of femur	6,587	0.09%
341: Fracture of pelvis or dislocation of hip	7,399	0.10%
342: Fractures & dislocations except femur, pelvis & back	15,302	0.22%
343: Musculoskeletal malignancy & pathol fracture d/t muscskel malig	6,696	0.09%
344: Osteomyelitis, septic arthritis & other musculoskeletal infections	14,060	0.20%
346: Connective tissue disorders	8,084	0.11%
347: Other back & neck disorders, fractures & injuries	37,034	0.52%
349: Malfunction, reaction, complic of orthopedic device or procedure	6,687	0.09%
351: Other musculoskeletal system & connective tissue diagnoses	32,779	0.46%
361: Skin graft for skin & subcutaneous tissue diagnoses	6,097	0.09%
362: Mastectomy procedures	5,044	0.07%
363: Breast procedures except mastectomy	3,485	0.05%
364: Other skin, subcutaneous tissue & related procedures	18,538	0.26%
380: Skin ulcers	11,600	0.16%
381: Major skin disorders	2,110	0.03%
382: Malignant breast disorders	2,021	0.03%
383: Cellulitis & other skin infections	91,148	1.28%
384: Contusion, open wound & other trauma to skin & subcutaneous tissue	10,197	0.14%
385: Other skin, subcutaneous tissue & breast disorders	8,320	0.12%
401: Adrenal procedures	1,134	0.02%
403: Procedures for obesity	37,553	0.53%
404: Thyroid, parathyroid & thyroglossal procedures	3,460	0.05%
405: Other procedures for endocrine, nutritional & metabolic disorders	1,664	0.02%
420: Diabetes	76,610	1.08%
421: Malnutrition, failure to thrive & other nutritional disorders	8,919	0.13%
422: Hypovolemia & related electrolyte disorders	20,740	0.29%
423: Inborn errors of metabolism	1,912	0.03%

APRDRG	Frequency	Percent of Total
424: Other endocrine disorders	5,435	0.08%
425: Other non-hypovolemic electrolyte disorders	25,645	0.36%
426: Non-hypovolemic sodium disorders	30,123	0.42%
427: Thyroid disorders	3,368	0.05%
440: Kidney transplant	3,851	0.05%
441: Major bladder procedures	2,888	0.04%
442: Kidney & urinary tract procedures for malignancy	9,066	0.13%
443: Kidney & urinary tract procedures for nonmalignancy	11,152	0.16%
444: Renal dialysis access device and vessel repair	1,866	0.03%
445: Other bladder procedures	2,100	0.03%
446: Urethral & transurethral procedures	10,511	0.15%
447: Other kidney, urinary tract & related procedures	1,798	0.03%
461: Kidney & urinary tract malignancy	2,752	0.04%
462: Nephritis & nephrosis	2,228	0.03%
463: Kidney & urinary tract infections	98,052	1.38%
465: Urinary stones & acquired upper urinary tract obstruction	14,851	0.21%
466: Malfunction, reaction, complic of genitourinary device or proc	39,514	0.56%
468: Other kidney & urinary tract diagnoses, signs & symptoms	10,522	0.15%
469: Acute kidney injury	110,201	1.55%
470: Chronic kidney disease	10,266	0.14%
480: Major male pelvic procedures	6,588	0.09%
482: Transurethral prostatectomy	3,132	0.04%
483: Penis, testes & scrotal procedures	1,918	0.03%
484: Other male reproductive system & related procedures	4,275	0.06%
500: Malignancy, male reproductive system	1,318	0.02%
501: Male reproductive system diagnoses except malignancy	6,479	0.09%
510: Pelvic evisceration, radical hysterectomy & other radical GYN procs	1,154	0.02%
511: Uterine & adnexa procedures for ovarian & adnexal malignancy	2,698	0.04%
512: Uterine & adnexa procedures for non-ovarian & non-adnexal malig	3,125	0.04%
513: Uterine & adnexa procedures for non-malignancy except leiomyoma	16,406	0.23%

APRDRG	Frequency	Percent of Total
514: Female reproductive system reconstructive procedures	1,298	0.02%
517: Dilation & curettage for non-obstetric diagnoses	1,206	0.02%
518: Other female reproductive system & related procedures	2,406	0.03%
519: Uterine & adnexa procedures for leiomyoma	14,868	0.21%
530: Female reproductive system malignancy	3,282	0.05%
531: Female reproductive system infections	3,649	0.05%
532: Menstrual & other female reproductive system disorders	3,971	0.06%
540: Cesarean delivery	233,222	3.28%
541: Vaginal delivery w sterilization &/or D&C	16,255	0.23%
542: Vaginal delivery w complicating procedures exc sterilization &/or D&C	12,384	0.17%
544: D&C, aspiration curettage or hysterotomy for obstetric diagnoses	2,604	0.04%
545: Ectopic pregnancy procedure	1,602	0.02%
546: Other O.R. proc for obstetric diagnoses except delivery diagnoses	1,616	0.02%
560: Vaginal delivery	465,269	6.55%
561: Postpartum & post abortion diagnoses w/o procedure	10,847	0.15%
563: Preterm labor	6,713	0.09%
564: Abortion w/o D&C, aspiration curettage or hysterotomy	856	0.01%
565: False labor	1,499	0.02%
566: Other antepartum diagnoses	33,481	0.47%
580: Neonate, transferred <5 days old, not born here	524	0.01%
581: Neonate, transferred < 5 days old, born here	10,691	0.15%
583: Neonate w ECMO	195	0.00%
588: Neonate bwt <1500g w major procedure	563	0.01%
589: Neonate bwt <500g or GA <24 weeks	3,119	0.04%
591: Neonate birthwt 500-749g w/o major procedure	956	0.01%
593: Neonate birthwt 750-999g w/o major procedure	1,760	0.02%
602: Neonate bwt 1000-1249g w resp dist synd/oth maj resp or maj anom	1,921	0.03%
603: Neonate birthwt 1000-1249g w or w/o other significant condition	825	0.01%
607: Neonate bwt 1250-1499g w resp dist synd/oth maj resp or maj anom	2,237	0.03%
608: Neonate bwt 1250-1499g w or w/o other significant condition	868	0.01%

APRDRG	Frequency	Percent of Total
609: Neonate bwt 1500-2499g w major procedure	418	0.01%
611: Neonate birthwt 1500-1999g w major anomaly	1,226	0.02%
612: Neonate bwt 1500-1999g w resp dist synd/oth maj resp cond	3,791	0.05%
613: Neonate birthwt 1500-1999g w congenital/perinatal infection	281	0.00%
614: Neonate bwt 1500-1999g w or w/o other significant condition	6,152	0.09%
621: Neonate bwt 2000-2499g w major anomaly	1,586	0.02%
622: Neonate bwt 2000-2499g w resp dist synd/oth maj resp cond	3,708	0.05%
623: Neonate bwt 2000-2499g w congenital/perinatal infection	491	0.01%
625: Neonate bwt 2000-2499g w other significant condition	3,659	0.05%
626: Neonate bwt 2000-2499g, normal newborn or neonate w other problem	23,130	0.33%
630: Neonate birthwt >2499g w major cardiovascular procedure	596	0.01%
631: Neonate birthwt >2499g w other major procedure	1,089	0.02%
633: Neonate birthwt >2499g w major anomaly	9,826	0.14%
634: Neonate, birthwt >2499g w resp dist synd/oth maj resp cond	12,018	0.17%
636: Neonate birthwt >2499g w congenital/perinatal infection	3,895	0.05%
639: Neonate birthwt >2499g w other significant condition	15,778	0.22%
640: Neonate birthwt >2499g, normal newborn or neonate w other problem	636,209	8.95%
650: Splenectomy	1,000	0.01%
651: Other procedures of blood & blood-forming organs	1,093	0.02%
660: Major hematologic/immunologic diag exc sickle cell crisis & coagul	18,203	0.26%
661: Coagulation & platelet disorders	9,586	0.13%
662: Sickle cell anemia crisis	17,559	0.25%
663: Other anemia & disorders of blood & blood-forming organs	37,293	0.52%
680: Major O.R. procedures for lymphatic/hematopoietic/other neoplasms	3,217	0.05%
681: Other O.R. procedures for lymphatic/hematopoietic/other neoplasms	4,498	0.06%
690: Acute leukemia	5,481	0.08%
691: Lymphoma, myeloma & non-acute leukemia	9,690	0.14%
692: Radiotherapy	384	0.01%
694: Lymphatic & other malignancies & neoplasms of uncertain behavior	5,820	0.08%
695: Chemotherapy for acute leukemia	6,420	0.09%

APRDRG	Frequency	Percent of Total
696: Other chemotherapy	21,104	0.30%
710: Infectious & parasitic diseases including HIV w O.R. procedure	49,861	0.70%
711: Post-op, post-trauma, other device infections w O.R. procedure	13,550	0.19%
720: Septicemia & disseminated infections	390,167	5.49%
721: Post-operative, post-traumatic, other device infections	27,150	0.38%
722: Fever	8,084	0.11%
723: Viral illness	9,557	0.13%
724: Other infectious & parasitic diseases	8,260	0.12%
740: Mental illness diagnosis w O.R. procedure	839	0.01%
750: Schizophrenia	64,846	0.91%
751: Major depressive disorders & other/unspecified psychoses	94,011	1.32%
752: Disorders of personality & impulse control	2,436	0.03%
753: Bipolar disorders	65,642	0.92%
754: Depression except major depressive disorder	25,789	0.36%
755: Adjustment disorders & neuroses except depressive diagnoses	9,549	0.13%
756: Acute anxiety & delirium states	9,890	0.14%
757: Organic mental health disturbances	2,225	0.03%
758: Behavioral disorders	3,975	0.06%
759: Eating disorders	1,040	0.01%
760: Other mental health disorders	2,483	0.03%
770: Drug & alcohol abuse or dependence, left against medical advice	10,036	0.14%
772: Alcohol & drug dependence w rehab or rehab/detox therapy	7,205	0.10%
773: Opioid abuse & dependence	15,983	0.22%
774: Cocaine abuse & dependence	5,458	0.08%
775: Alcohol abuse & dependence	47,519	0.67%
776: Other drug abuse & dependence	7,062	0.10%
792: Extensive OR procedures for other complications of treatment	4,505	0.06%
793: Moderately extensive OR procedures for other complications of treatment	6,959	0.10%
794: Non-extensive OR procedures for other complications of treatment	1,270	0.02%
810: Hemorrhage or hematoma due to complication	3,894	0.05%

APRDRG	Frequency	Percent of Total
811: Allergic reactions	5,577	0.08%
812: Poisoning of medicinal agents	31,000	0.44%
813: Other complications of treatment	11,763	0.17%
815: Other injury, poisoning & toxic effect diagnoses	4,379	0.06%
816: Toxic effects of non-medicinal substances	10,992	0.15%
817: Overdose	13,088	0.18%
841: Extensive 3rd degree burns w skin graft	232	0.00%
842: Burns w skin graft except extensive 3rd degree burns	2,591	0.04%
843: Extensive 3rd degree or full thickness burns w/o skin graft	89	0.00%
844: Partial thickness burns w/o skin graft	3,287	0.05%
850: Procedure w diag of rehab, aftercare or oth contact w health service	7,978	0.11%
860: Rehabilitation	14,982	0.21%
861: Signs, symptoms & other factors influencing health status	32,435	0.46%
862: Other aftercare & convalescence	30,461	0.43%
863: Neonatal aftercare	545	0.01%
890: HIV w multiple major HIV related conditions	4,827	0.07%
892: HIV w major HIV related condition	4,129	0.06%
893: HIV w multiple significant HIV related conditions	797	0.01%
894: HIV w one signif HIV cond or w/o signif related cond	1,896	0.03%
910: Craniotomy for multiple significant trauma	926	0.01%
911: Extensive abdominal/thoracic procedures for mult significant trauma	3,214	0.05%
912: Musculoskeletal & other procedures for multiple significant trauma	10,444	0.15%
930: Multiple significant trauma w/o O.R. procedure	8,730	0.12%
950: Extensive procedure unrelated to principal diagnosis	14,447	0.20%
951: Moderately extensive procedure unrelated to principal diagnosis	21,165	0.30%
952: Nonextensive procedure unrelated to principal diagnosis	7,603	0.11%
955: Principal diagnosis invalid as discharge diagnosis	106	0.00%
956: Ungroupable	3,524	0.05%

APRDRG_Risk_Mortality	Frequency	Percent of Total
0: No class specified	3,630	0.05%
1: Minor likelihood of dying	3,667,862	51.62%
2: Moderate likelihood of dying	1,538,220	21.65%
3: Major likelihood of dying	1,323,482	18.63%
4: Extreme likelihood of dying	572,304	8.05%

APRDRG_Severity	Frequency	Percent of Total
0: No class specified	3,630	0.05%
1: Minor loss of function (includes cases with no comorbidity or complications)	2,040,517	28.72%
2: Moderate loss of function	2,461,823	34.65%
3: Major loss of function	1,834,896	25.82%
4: Extreme loss of function	764,632	10.76%