HCUP Summary Statistics Report: NIS 2021 Severity File Means of Continuous Data Elements

Variable / Label	Ν	Minimum	Maximum	Mean	Median	Sum
HOSP_NIS : NIS hospital number	6,666,752	10,001	90,527	51,192.2	50,315	341,285,697,169
APRDRG : All Patient Refined DRG	6,666,752	1	956	411.5	383	2,743,610,566
APRDRG_Risk_Mortality : All Patient Refined DRG: Risk of Mortality Subclass	6,666,752	0	4	2.0	2	13,129,796
APRDRG_Severity : All Patient Refined DRG: Severity of Illness Subclass	6,666,752	0	4	2.2	2	14,740,499

APRDRG	Frequency	Percent of Total
1: Liver transplant and/or intestinal transplant	1,779	0.03%
2: Heart and/or lung transplant	1,208	0.02%
4: Tracheostomy with MV >96 hours with extensive procedure	7,415	0.11%
5: Tracheostomy with MV >96 hours without extensive procedure	10,881	0.16%
6: Pancreas transplant	165	0.00%
7: Allogeneic bone marrow transplant	1,721	0.03%
8: Autologous bone marrow transplant or T-cell immunotherapy	2,976	0.04%
9: Extracorporeal membrane oxygenation (ECMO)	3,088	0.05%
20: Open craniotomy for trauma	3,923	0.06%
21: Open craniotomy except trauma	24,630	0.37%
22: Ventricular shunt procedures	3,818	0.06%
23: Spinal procedures	5,840	0.09%
24: Open extracranial vascular procedures	12,197	0.18%
26: Other nervous system and related procedures	4,088	0.06%
27: Other open craniotomy	1,853	0.03%
29: Other percutaneous intracranial procedures	3,567	0.05%
30: Percutaneous intracranial and extracranial vascular procedures	17,290	0.26%
40: Spinal disorders and injuries	2,136	0.03%
41: Nervous system malignancy	8,890	0.13%
42: Degenerative nervous system disorders except multiple sclerosis	25,784	0.39%
43: Multiple sclerosis, other demyelinating disease and inflammatory neuropathies	5,969	0.09%
44: Intracranial hemorrhage	18,018	0.27%
45: CVA and precerebral occlusion with infarction	95,381	1.43%
46: Nonspecific CVA and precerebral occlusion without infarction	3,189	0.05%
47: Transient ischemia	15,042	0.23%
48: Peripheral, cranial and autonomic nerve disorders	13,266	0.20%
49: Bacterial and tuberculous infections of nervous system	3,461	0.05%
50: Non-bacterial infections of nervous system except viral meningitis	3,586	0.05%
51: Viral meningitis	1,022	0.02%
52: Alteration in consciousness	29,767	0.45%

APRDRG	Frequency	Percent of Total
53: Seizure	50,986	0.76%
54: Migraine and other headaches	8,586	0.13%
55: Head trauma with coma > 1 hour or hemorrhage	25,502	0.38%
56: Brain contusion or laceration and complicated skull fracture, coma < 1 hour or no coma	466	0.01%
57: Concussion, closed skull fracture NOS, and uncomplicated intracranial injury, coma < 1 hour or no coma	4,542	0.07%
58: Other disorders of nervous system	39,917	0.60%
59: Anoxic and other severe brain damage	1,139	0.02%
73: Orbit and eye procedures	1,720	0.03%
82: Eye infections and other eye disorders	6,251	0.09%
89: Major cranial or facial bone procedures	3,333	0.05%
91: Other major head and neck procedures	2,714	0.04%
92: Facial bone procedures except major cranial or facial bone procedures	3,619	0.05%
95: Cleft lip and palate repair	450	0.01%
97: Tonsil and adenoid procedures	1,222	0.02%
98: Other ear, nose, mouth and throat procedures	5,215	0.08%
110: Ear, nose, mouth, throat and cranial or facial malignancies	1,978	0.03%
111: Vertigo and other labyrinth disorders	6,806	0.10%
113: Infections of upper respiratory tract	9,468	0.14%
114: Dental diseases and disorders	1,994	0.03%
115: Other ear, nose, mouth, throat and cranial or facial diagnoses	11,291	0.17%
120: Major respiratory and chest procedures	7,523	0.11%
121: Other respiratory and chest procedures	17,677	0.27%
130: Respiratory system diagnosis with ventilator support > 96 hours	25,192	0.38%
131: Cystic fibrosis - pulmonary disease	1,270	0.02%
132: BPD and other chronic respiratory diseases arising in perinatal period	1,103	0.02%
133: Respiratory failure	68,793	1.03%
134: Pulmonary embolism	37,149	0.56%
135: Major chest and respiratory trauma	17,235	0.26%
136: Respiratory malignancy	14,929	0.22%
137: Major respiratory infections and inflammations	323,028	4.85%

APRDRG	Frequency	Percent of Total
138: Bronchiolitis and RSV pneumonia	16,619	0.25%
139: Other pneumonia	77,401	1.16%
140: Chronic obstructive pulmonary disease	58,849	0.88%
141: Asthma	21,174	0.32%
142: Interstitial and alveolar lung diseases	6,307	0.09%
143: Other respiratory diagnoses except signs, symptoms and miscellaneous diagnoses	19,637	0.29%
144: Respiratory signs, symptoms and miscellaneous diagnoses	6,204	0.09%
145: Acute bronchitis and related symptoms	6,307	0.09%
160: Major cardiothoracic repair of heart anomaly	1,171	0.02%
161: Implantable heart assist systems	572	0.01%
162: Cardiac valve procedures with AMI or complex principal diagnosis	2,913	0.04%
163: Cardiac valve procedures without AMI or complex principal diagnosis	14,135	0.21%
165: Coronary bypass with AMI or complex principal diagnosis	10,515	0.16%
166: Coronary bypass without AMI or complex principal diagnosis	20,671	0.31%
167: Other cardiothoracic and thoracic vascular procedures	6,315	0.09%
169: Major abdominal vascular procedures	14,779	0.22%
170: Permanent cardiac pacemaker implant with AMI, heart failure or shock	277	0.00%
171: Permanent cardiac pacemaker implant without AMI, heart failure or shock	18,687	0.28%
174: Percutaneous cardiac intervention with AMI	55,890	0.84%
175: Percutaneous cardiac intervention without AMI	44,035	0.66%
176: Insertion, revision and replacements of pacemaker and other cardiac devices	2,621	0.04%
177: Cardiac pacemaker and defibrillator revision except device replacement	1,272	0.02%
178: External heart assist systems	2,124	0.03%
179: Defibrillator implants	7,845	0.12%
180: Other circulatory system procedures	5,441	0.08%
181: Lower extremity arterial procedures	14,088	0.21%
182: Other peripheral vascular procedures	22,579	0.34%
183: Percutaneous structural cardiac procedures	19,663	0.29%
190: Acute myocardial infarction	48,052	0.72%
191: Cardiac catheterization for coronary artery disease	13,146	0.20%

APRDRG	Frequency	Percent of Total
192: Cardiac catheterization for other non-coronary conditions	44,901	0.67%
193: Acute and subacute endocarditis	1,675	0.03%
194: Heart failure	207,795	3.12%
196: Cardiac arrest and shock	5,036	0.08%
197: Peripheral and other vascular disorders	26,441	0.40%
198: Angina pectoris and coronary atherosclerosis	16,856	0.25%
199: Hypertension	27,741	0.42%
200: Cardiac structural and valvular disorders	3,355	0.05%
201: Cardiac arrhythmia and conduction disorders	85,769	1.29%
203: Chest pain	11,823	0.18%
204: Syncope and collapse	23,493	0.35%
205: Cardiomyopathy	1,062	0.02%
206: Malfunction, reaction, complication of cardiac or vascular device or procedure	8,247	0.12%
207: Other circulatory system diagnoses	18,612	0.28%
220: Major stomach, esophageal and duodenal procedures	13,787	0.21%
222: Other stomach, esophageal and duodenal procedures	3,044	0.05%
223: Other small and large bowel procedures	5,875	0.09%
224: Peritoneal adhesiolysis	6,918	0.10%
226: Anal procedures	2,699	0.04%
227: Hernia procedures except inguinal, femoral and umbilical	10,655	0.16%
228: Inguinal, femoral and umbilical hernia procedures	5,369	0.08%
229: Other digestive system and abdominal procedures	6,822	0.10%
230: Major small bowel procedures	28,473	0.43%
231: Major large bowel procedures	42,096	0.63%
232: Gastric fundoplication	421	0.01%
233: Appendectomy with complex principal diagnosis	9,600	0.14%
234: Appendectomy without complex principal diagnosis	11,373	0.17%
240: Digestive malignancy	15,449	0.23%
241: Peptic ulcer and gastritis	40,387	0.61%
242: Major esophageal disorders	8,275	0.12%

APRDRG	Frequency	Percent of Total
243: Other esophageal disorders	13,506	0.20%
244: Diverticulitis and diverticulosis	39,579	0.59%
245: Inflammatory bowel disease	14,528	0.22%
246: Gastrointestinal vascular insufficiency	5,178	0.08%
247: Intestinal obstruction	45,607	0.68%
248: Major gastrointestinal and peritoneal infections	21,965	0.33%
249: Other gastroenteritis, nausea and vomiting	40,112	0.60%
251: Abdominal pain	7,612	0.11%
252: Malfunction, reaction and complication of gastrointestinal device or procedure	10,770	0.16%
253: Other and unspecified gastrointestinal hemorrhage	29,682	0.45%
254: Other digestive system diagnoses	50,119	0.75%
260: Major pancreas, liver and shunt procedures	7,182	0.11%
261: Major biliary tract procedures	866	0.01%
263: Cholecystectomy	43,858	0.66%
264: Other hepatobiliary, pancreas and abdominal procedures	2,517	0.04%
279: Hepatic coma and other major acute liver disorders	17,634	0.26%
280: Alcoholic liver disease	26,523	0.40%
281: Malignancy of hepatobiliary system and pancreas	12,328	0.18%
282: Disorders of pancreas except malignancy	49,456	0.74%
283: Other disorders of the liver	16,105	0.24%
284: Disorders of gallbladder and biliary tract	22,580	0.34%
303: Dorsal and lumbar fusion procedure for curvature of back	4,218	0.06%
304: Dorsal and lumbar fusion procedure except for curvature of back	46,859	0.70%
305: Amputation of lower limb except toes	16,479	0.25%
308: Hip and femur fracture repair	49,007	0.74%
309: Other significant hip and femur surgery	6,756	0.10%
310: Intervertebral disc excision and decompression	10,714	0.16%
312: Skin graft, except hand, for musculoskeletal and connective tissue diagnoses	1,986	0.03%
313: Knee and lower leg procedures except foot	29,352	0.44%
314: Foot and toe procedures	15,773	0.24%

APRDRG	Frequency	Percent of Total
315: Shoulder, upper arm and forearm procedures except joint replacement	13,139	0.20%
316: Hand and wrist procedures	5,042	0.08%
317: Tendon, muscle and other soft tissue procedures	7,950	0.12%
320: Other musculoskeletal system and connective tissue procedures	9,531	0.14%
321: Cervical spinal fusion and other back or neck procedures except disc excision or decompression	23,587	0.35%
322: Shoulder and elbow joint replacement	12,526	0.19%
323: Non-elective or complex hip joint replacement	31,079	0.47%
324: Elective hip joint replacement	27,442	0.41%
325: Non-elective or complex knee joint replacement	8,692	0.13%
326: Elective knee joint replacement	40,835	0.61%
340: Fracture of femur	5,949	0.09%
341: Fracture of pelvis or dislocation of hip	6,350	0.10%
342: Fractures and dislocations except femur, pelvis and back	14,290	0.21%
343: Musculoskeletal malignancy and pathological fracture due to musculoskeletal malignancy	5,996	0.09%
344: Osteomyelitis, septic arthritis and other musculoskeletal infections	13,517	0.20%
346: Connective tissue disorders	8,323	0.12%
347: Other back and neck disorders, fractures and injuries	35,216	0.53%
349: Malfunction, reaction, complication of orthopedic device or procedure	6,967	0.10%
351: Other musculoskeletal system and connective tissue diagnoses	30,867	0.46%
361: Skin graft for skin and subcutaneous tissue diagnoses	2,678	0.04%
362: Mastectomy procedures	3,630	0.05%
363: Breast procedures except mastectomy	2,529	0.04%
364: Other skin, subcutaneous tissue and related procedures	15,757	0.24%
380: Skin ulcers	10,809	0.16%
381: Major skin disorders	1,729	0.03%
382: Malignant breast disorders	1,727	0.03%
383: Cellulitis and other skin infections	64,542	0.97%
384: Contusion, open wound and other trauma to skin and subcutaneous tissue	7,461	0.11%
385: Other skin, subcutaneous tissue and breast disorders	6,806	0.10%
401: Adrenal procedures	1,231	0.02%

APRDRG	Frequency	Percent of Total
403: Procedures for obesity	38,697	0.58%
404: Thyroid, parathyroid and thyroglossal procedures	2,800	0.04%
405: Other procedures for endocrine, nutritional and metabolic disorders	1,568	0.02%
420: Diabetes	74,994	1.12%
421: Malnutrition, failure to thrive and other nutritional disorders	11,407	0.17%
422: Hypovolemia and related electrolyte disorders	18,276	0.27%
423: Inborn errors of metabolism	1,771	0.03%
424: Other endocrine disorders	5,224	0.08%
425: Other non-hypovolemic electrolyte disorders	27,376	0.41%
426: Non-hypovolemic sodium disorders	33,305	0.50%
427: Thyroid disorders	2,930	0.04%
440: Kidney transplant	4,583	0.07%
441: Major bladder procedures	2,838	0.04%
442: Kidney and urinary tract procedures for malignancy	8,192	0.12%
443: Kidney and urinary tract procedures for non-malignancy	8,961	0.13%
444: Renal dialysis access device procedures and vessel repair	3,005	0.05%
445: Other bladder procedures	1,952	0.03%
446: Urethral and transurethral procedures	9,870	0.15%
447: Other kidney, urinary tract and related procedures	1,625	0.02%
461: Kidney and urinary tract malignancy	2,573	0.04%
462: Nephritis and nephrosis	2,159	0.03%
463: Kidney and urinary tract infections	84,235	1.26%
465: Urinary stones and acquired upper urinary tract obstruction	11,898	0.18%
466: Malfunction, reaction, complication of genitourinary device or procedure	44,478	0.67%
468: Other kidney and urinary tract diagnoses, signs and symptoms	9,435	0.14%
469: Acute kidney injury	93,631	1.40%
470: Chronic kidney disease	9,356	0.14%
480: Major male pelvic procedures	3,415	0.05%
482: Transurethral prostatectomy	2,553	0.04%
483: Penis, testes and scrotal procedures	1,692	0.03%

APRDRG	Frequency	Percent of Total
484: Other male reproductive system and related procedures	3,514	0.05%
500: Malignancy, male reproductive system	1,196	0.02%
501: Male reproductive system diagnoses except malignancy	5,918	0.09%
510: Pelvic evisceration, radical hysterectomy and other radical gynecological procedures	792	0.01%
511: Uterine and adnexa procedures for ovarian and adnexal malignancy	2,647	0.04%
512: Uterine and adnexa procedures for non-ovarian and non-adnexal malignancy	2,694	0.04%
513: Uterine and adnexa procedures for non-malignancy except leiomyoma	11,266	0.17%
514: Female reproductive system reconstructive procedures	796	0.01%
517: Dilation and curettage for non-obstetric diagnoses	989	0.01%
518: Other female reproductive system and related procedures	2,024	0.03%
519: Uterine and adnexa procedures for leiomyoma	11,521	0.17%
530: Female reproductive system malignancy	3,269	0.05%
531: Female reproductive system infections	3,321	0.05%
532: Menstrual and other female reproductive system disorders	3,823	0.06%
539: Cesarean section with sterilization	33,893	0.51%
540: Cesarean section without sterilization	191,531	2.87%
541: Vaginal delivery with sterilization and/or D&C	6,657	0.10%
542: Vaginal delivery with O.R. procedure except sterilization and/or D&C	15,532	0.23%
543: Abortion with D&C, aspiration curettage or hysterotomy	1,430	0.02%
547: Antepartum with O.R. procedure	4,403	0.07%
548: Postpartum and post abortion diagnosis with O.R. procedure	2,512	0.04%
560: Vaginal delivery	443,014	6.65%
561: Postpartum and post abortion diagnoses without procedure	14,022	0.21%
564: Abortion without D&C, aspiration curettage or hysterotomy	1,610	0.02%
566: Antepartum without O.R. procedure	40,382	0.61%
580: Neonate, transferred < 5 days old, not born here	398	0.01%
581: Neonate, transferred < 5 days old, born here	10,466	0.16%
583: Neonate with ECMO	201	0.00%
588: Neonate birth weight < 1500 grams with major procedure	502	0.01%
589: Neonate birth weight < 500 grams, or birth weight 500-999 grams and gestational age <24 weeks, or birth weight 500-749 grams with major anomaly or without life sustaining intervention	1,072	0.02%

APRDRG	Frequency	Percent of Total
591: Neonate birth weight 500-749 grams without major procedure	936	0.01%
593: Neonate birth weight 750-999 grams without major procedure	1,725	0.03%
602: Neonate birth weight 1000-1249 grams with respiratory distress syndrome or other major respiratory condition or major anomaly	1,892	0.03%
603: Neonate birth weight 1000-1249 grams with or without significant condition	221	0.00%
607: Neonate birth weight 1250-1499 grams with respiratory distress syndrome or other major respiratory condition or major anomaly	2,277	0.03%
608: Neonate birth weight 1250-1499 grams with or without significant condition	657	0.01%
609: Neonate birth weight 1500-2499 grams with major procedure	432	0.01%
611: Neonate birth weight 1500-1999 grams with major anomaly	1,230	0.02%
612: Neonate birth weight 1500-1999 grams with respiratory distress syndrome or other major respiratory condition	4,127	0.06%
613: Neonate birth weight 1500-1999 grams with congenital or perinatal infection	166	0.00%
614: Neonate birth weight 1500-1999 grams with or without other significant condition	5,707	0.09%
621: Neonate birth weight 2000-2499 grams with major anomaly	1,725	0.03%
622: Neonate birth weight 2000-2499 grams with respiratory distress syndrome or other major respiratory condition	4,445	0.07%
623: Neonate birth weight 2000-2499 grams with congenital or perinatal infection	321	0.00%
625: Neonate birth weight 2000-2499 grams with other significant condition	3,423	0.05%
626: Neonate birth weight 2000-2499 grams, normal newborn or neonate with other problem	23,137	0.35%
630: Neonate birth weight > 2499 grams with major cardiovascular procedure	551	0.01%
631: Neonate birth weight > 2499 grams with other major procedure	1,026	0.02%
633: Neonate birth weight $>$ 2499 grams with major anomaly	10,464	0.16%
634: Neonate birth weight > 2499 grams with respiratory distress syndrome or other major respiratory condition	14,469	0.22%
636: Neonate birth weight > 2499 grams with congenital or perinatal infection	2,588	0.04%
639: Neonate birth weight $>$ 2499 grams with other significant condition	15,887	0.24%
640: Neonate birth weight > 2499 grams, normal newborn or neonate with other problem	607,413	9.11%
650: Splenectomy	766	0.01%
651: Other procedures of blood and blood-forming organs	744	0.01%
660: Major hematologic or immunologic diagnoses except sickle cell crisis and coagulation	15,198	0.23%
661: Coagulation and platelet disorders	8,942	0.13%

APRDRG	Frequency	Percent of Total
662: Sickle cell anemia crisis	15,858	0.24%
663: Other anemia and disorders of blood and blood-forming organs	35,700	0.54%
680: Major O.R. procedures for lymphatic, hematopoietic or other neoplasms	3,749	0.06%
681: Other O.R. procedures for lymphatic, hematopoietic or other neoplasms	3,853	0.06%
690: Acute leukemia	5,717	0.09%
691: Lymphoma, myeloma and non-acute leukemia	9,765	0.15%
692: Radiotherapy	347	0.01%
694: Lymphatic and other malignancies and neoplasms of uncertain behavior	5,824	0.09%
695: Chemotherapy for acute leukemia	6,161	0.09%
696: Other chemotherapy	18,715	0.28%
710: Infectious and parasitic diseases including HIV with O.R. procedure	57,890	0.87%
711: Post-operative, post-trauma, other device infections with O.R. procedure	13,073	0.20%
720: Septicemia and disseminated infections	426,198	6.39%
721: Post-operative, post-traumatic, other device infections	25,162	0.38%
722: Fever and inflammatory conditions	5,920	0.09%
723: Viral illness	5,512	0.08%
724: Other infectious and parasitic diseases	8,062	0.12%
740: Mental illness diagnosis with O.R. procedure	973	0.01%
750: Schizophrenia	60,221	0.90%
751: Major depressive disorders and other or unspecified psychoses	83,297	1.25%
752: Disorders of personality and impulse control	2,287	0.03%
753: Bipolar disorders	55,686	0.84%
754: Depression except major depressive disorder	17,884	0.27%
755: Adjustment disorders and neuroses except depressive diagnoses	8,202	0.12%
756: Acute anxiety and delirium states	9,176	0.14%
757: Organic mental health disturbances	1,924	0.03%
758: Behavioral disorders	2,873	0.04%
759: Eating disorders	1,646	0.02%
760: Other mental health disorders	2,773	0.04%
770: Drug and alcohol abuse or dependence, left against medical advice	11,047	0.17%

APRDRG	Frequency	Percent of Total
772: Alcohol and drug dependence with rehabilitation and/or detoxification therapy	5,971	0.09%
773: Opioid abuse and dependence	12,154	0.18%
774: Cocaine abuse and dependence	4,718	0.07%
775: Alcohol abuse and dependence	50,908	0.76%
776: Other drug abuse and dependence	7,179	0.11%
792: Extensive O.R. procedures for other complications of treatment	4,044	0.06%
793: Moderately extensive O.R. procedures for other complications of treatment	5,914	0.09%
794: Non-extensive O.R. procedures for other complications of treatment	1,182	0.02%
810: Hemorrhage or hematoma due to complication	3,414	0.05%
811: Allergic reactions	4,518	0.07%
812: Poisoning of medicinal agents	22,044	0.33%
813: Other complications of treatment	11,970	0.18%
815: Other injury, poisoning and toxic effect diagnoses	3,897	0.06%
816: Toxic effects of non-medicinal substances	8,856	0.13%
817: Intentional self-harm and attempted suicide	19,378	0.29%
841: Extensive third degree burns with skin graft	197	0.00%
842: Burns with skin graft except extensive third degree burns	2,625	0.04%
843: Extensive third degree burns without skin graft	734	0.01%
844: Partial thickness burns without skin graft	2,115	0.03%
850: Procedure with diagnosis of rehabilitation, aftercare or other contact with health services	4,669	0.07%
860: Rehabilitation	14,974	0.22%
861: Signs, symptoms and other factors influencing health status	25,060	0.38%
862: Other aftercare and convalescence	37,049	0.56%
863: Neonatal aftercare	538	0.01%
890: HIV with multiple major HIV related conditions	4,057	0.06%
892: HIV with major HIV related condition	2,725	0.04%
893: HIV with multiple significant HIV related conditions	575	0.01%
894: HIV with one significant HIV condition or without significant related conditions	1,058	0.02%
910: Craniotomy for multiple significant trauma	1,051	0.02%
911: Extensive abdominal or thoracic procedures for multiple significant trauma	3,978	0.06%

APRDRG	Frequency	Percent of Total
912: Musculoskeletal and other procedures for multiple significant trauma	12,868	0.19%
930: Multiple significant trauma without O.R. procedure	9,892	0.15%
950: Extensive O.R. procedure unrelated to principal diagnosis	11,856	0.18%
951: Moderately extensive O.R. procedure unrelated to principal diagnosis	16,178	0.24%
952: Non-extensive O.R. procedure unrelated to principal diagnosis	6,644	0.10%
955: Principal diagnosis invalid as discharge diagnosis	3,353	0.05%
956: Ungroupable	4,817	0.07%

APRDRG_Risk_Mortality	Frequency	Percent of Total
0: No class specified	8,170	0.12%
1: Minor likelihood of dying	3,185,184	47.78%
2: Moderate likelihood of dying	1,348,477	20.23%
3: Major likelihood of dying	1,252,026	18.78%
4: Extreme likelihood of dying	872,895	13.09%

APRDRG_Severity	Frequency	Percent of Total
0: No class specified	8,170	0.12%
1: Minor loss of function (includes cases with no comorbidity or complications)	1,897,880	28.47%
2: Moderate loss of function	2,316,868	34.75%
3: Major loss of function	1,566,453	23.50%
4: Extreme loss of function	877,381	13.16%