## HCUP Summary Statistics Report: NIS 2020 Severity File Means of Continuous Data Elements

Variable / Label	N	Minimum	Maximum	Mean	Median	Sum
HOSP_NIS: NIS hospital number	6,471,165	10,001	90,526	51,287.6	50,365	331,890,807,595
APRDRG : All Patient Refined DRG	6,471,165	1	956	415.9	403	2,691,163,479
APRDRG_Risk_Mortality : All Patient Refined DRG: Risk of Mortality Subclass	6,471,165	0	4	1.9	2	12,275,813
APRDRG_Severity : All Patient Refined DRG: Severity of Illness Subclass	6,471,165	0	4	2.1	2	13,898,318

APRDRG	Frequency	Percent of Total
1: Liver transplant and/or intestinal transplant	1,697	0.03%
2: Heart and/or lung transplant	1,228	0.02%
4: Tracheostomy with MV >96 hours with extensive procedure	7,233	0.11%
5: Tracheostomy with MV >96 hours without extensive procedure	9,001	0.14%
6: Pancreas transplant	189	0.00%
7: Allogeneic bone marrow transplant	1,671	0.03%
8: Autologous bone marrow transplant or T-cell immunotherapy	2,707	0.04%
9: Extracorporeal membrane oxygenation (ECMO)	272	0.00%
20: Open craniotomy for trauma	3,933	0.06%
21: Open craniotomy except trauma	23,428	0.36%
22: Ventricular shunt procedures	3,699	0.06%
23: Spinal procedures	5,315	0.08%
24: Open extracranial vascular procedures	12,026	0.19%
26: Other nervous system and related procedures	3,667	0.06%
27: Other open craniotomy	1,837	0.03%
29: Other percutaneous intracranial procedures	3,315	0.05%
30: Percutaneous intracranial and extracranial vascular procedures	15,376	0.24%
40: Spinal disorders and injuries	2,031	0.03%
41: Nervous system malignancy	8,712	0.13%
42: Degenerative nervous system disorders except multiple sclerosis	24,470	0.38%
43: Multiple sclerosis, other demyelinating disease and inflammatory neuropathies	5,638	0.09%
44: Intracranial hemorrhage	17,321	0.27%
45: CVA and precerebral occlusion with infarction	91,790	1.42%
46: Nonspecific CVA and precerebral occlusion without infarction	2,758	0.04%
47: Transient ischemia	14,169	0.22%
48: Peripheral, cranial and autonomic nerve disorders	13,015	0.20%
49: Bacterial and tuberculous infections of nervous system	3,178	0.05%
50: Non-bacterial infections of nervous system except viral meningitis	3,230	0.05%
51: Viral meningitis	1,029	0.02%
52: Alteration in consciousness	28,201	0.44%

APRDRG	Frequency	Percent of Total
53: Seizure	47,466	0.73%
54: Migraine and other headaches	7,962	0.12%
55: Head trauma with coma > 1 hour or hemorrhage	24,204	0.37%
56: Brain contusion or laceration and complicated skull fracture, coma < 1 hour or no coma	479	0.01%
57: Concussion, closed skull fracture NOS, and uncomplicated intracranial injury, coma < 1 hour or no coma	4,708	0.07%
58: Other disorders of nervous system	37,460	0.58%
59: Anoxic and other severe brain damage	1,059	0.02%
73: Orbit and eye procedures	1,621	0.03%
82: Eye infections and other eye disorders	5,282	0.08%
89: Major cranial or facial bone procedures	3,295	0.05%
91: Other major head and neck procedures	2,529	0.04%
92: Facial bone procedures except major cranial or facial bone procedures	3,467	0.05%
95: Cleft lip and palate repair	489	0.01%
97: Tonsil and adenoid procedures	1,298	0.02%
98: Other ear, nose, mouth and throat procedures	5,222	0.08%
110: Ear, nose, mouth, throat and cranial or facial malignancies	1,794	0.03%
111: Vertigo and other labyrinth disorders	6,131	0.09%
113: Infections of upper respiratory tract	19,054	0.29%
114: Dental diseases and disorders	1,817	0.03%
115: Other ear, nose, mouth, throat and cranial or facial diagnoses	10,936	0.17%
120: Major respiratory and chest procedures	7,282	0.11%
121: Other respiratory and chest procedures	15,855	0.25%
130: Respiratory system diagnosis with ventilator support > 96 hours	20,865	0.32%
131: Cystic fibrosis - pulmonary disease	1,444	0.02%
132: BPD and other chronic respiratory diseases arising in perinatal period	833	0.01%
133: Respiratory failure	70,238	1.09%
134: Pulmonary embolism	35,054	0.54%
135: Major chest and respiratory trauma	16,004	0.25%
136: Respiratory malignancy	14,639	0.23%
137: Major respiratory infections and inflammations	235,249	3.64%

APRDRG	Frequency	Percent of Total
138: Bronchiolitis and RSV pneumonia	9,736	0.15%
139: Other pneumonia	102,981	1.59%
140: Chronic obstructive pulmonary disease	65,537	1.01%
141: Asthma	18,663	0.29%
142: Interstitial and alveolar lung diseases	5,139	0.08%
143: Other respiratory diagnoses except signs, symptoms and miscellaneous diagnoses	18,765	0.29%
144: Respiratory signs, symptoms and miscellaneous diagnoses	6,308	0.10%
145: Acute bronchitis and related symptoms	9,240	0.14%
160: Major cardiothoracic repair of heart anomaly	1,207	0.02%
161: Implantable heart assist systems	639	0.01%
162: Cardiac valve procedures with AMI or complex principal diagnosis	2,742	0.04%
163: Cardiac valve procedures without AMI or complex principal diagnosis	13,245	0.20%
165: Coronary bypass with AMI or complex principal diagnosis	10,187	0.16%
166: Coronary bypass without AMI or complex principal diagnosis	18,577	0.29%
167: Other cardiothoracic and thoracic vascular procedures	5,831	0.09%
169: Major abdominal vascular procedures	13,426	0.21%
170: Permanent cardiac pacemaker implant with AMI, heart failure or shock	282	0.00%
171: Permanent cardiac pacemaker implant without AMI, heart failure or shock	17,360	0.27%
174: Percutaneous cardiac intervention with AMI	55,727	0.86%
175: Percutaneous cardiac intervention without AMI	38,391	0.59%
176: Insertion, revision and replacements of pacemaker and other cardiac devices	2,143	0.03%
177: Cardiac pacemaker and defibrillator revision except device replacement	957	0.01%
178: External heart assist systems	2,090	0.03%
179: Defibrillator implants	8,039	0.12%
180: Other circulatory system procedures	5,406	0.08%
181: Lower extremity arterial procedures	13,267	0.21%
182: Other peripheral vascular procedures	22,802	0.35%
183: Percutaneous structural cardiac procedures	17,173	0.27%
190: Acute myocardial infarction	45,800	0.71%
191: Cardiac catheterization for coronary artery disease	12,233	0.19%

APRDRG	Frequency	Percent of Total
192: Cardiac catheterization for other non-coronary conditions	39,584	0.61%
193: Acute and subacute endocarditis	1,759	0.03%
194: Heart failure	193,936	3.00%
196: Cardiac arrest and shock	4,573	0.07%
197: Peripheral and other vascular disorders	25,573	0.40%
198: Angina pectoris and coronary atherosclerosis	17,251	0.27%
199: Hypertension	26,227	0.41%
200: Cardiac structural and valvular disorders	2,950	0.05%
201: Cardiac arrhythmia and conduction disorders	80,984	1.25%
203: Chest pain	11,829	0.18%
204: Syncope and collapse	21,802	0.34%
205: Cardiomyopathy	978	0.02%
206: Malfunction, reaction, complication of cardiac or vascular device or procedure	8,029	0.12%
207: Other circulatory system diagnoses	17,077	0.26%
220: Major stomach, esophageal and duodenal procedures	12,600	0.19%
222: Other stomach, esophageal and duodenal procedures	3,331	0.05%
223: Other small and large bowel procedures	5,452	0.08%
224: Peritoneal adhesiolysis	6,872	0.11%
226: Anal procedures	2,337	0.04%
227: Hernia procedures except inguinal, femoral and umbilical	10,594	0.16%
228: Inguinal, femoral and umbilical hernia procedures	5,023	0.08%
229: Other digestive system and abdominal procedures	6,314	0.10%
230: Major small bowel procedures	28,002	0.43%
231: Major large bowel procedures	39,268	0.61%
232: Gastric fundoplication	411	0.01%
233: Appendectomy with complex principal diagnosis	10,080	0.16%
234: Appendectomy without complex principal diagnosis	11,834	0.18%
240: Digestive malignancy	14,256	0.22%
241: Peptic ulcer and gastritis	40,131	0.62%
242: Major esophageal disorders	8,375	0.13%

APRDRG	Frequency	Percent of Total
243: Other esophageal disorders	11,026	0.17%
244: Diverticulitis and diverticulosis	37,974	0.59%
245: Inflammatory bowel disease	14,037	0.22%
246: Gastrointestinal vascular insufficiency	5,219	0.08%
247: Intestinal obstruction	43,286	0.67%
248: Major gastrointestinal and peritoneal infections	21,311	0.33%
249: Other gastroenteritis, nausea and vomiting	38,593	0.60%
251: Abdominal pain	7,875	0.12%
252: Malfunction, reaction and complication of gastrointestinal device or procedure	9,948	0.15%
253: Other and unspecified gastrointestinal hemorrhage	30,019	0.46%
254: Other digestive system diagnoses	46,374	0.72%
260: Major pancreas, liver and shunt procedures	6,070	0.09%
261: Major biliary tract procedures	916	0.01%
263: Cholecystectomy	42,953	0.66%
264: Other hepatobiliary, pancreas and abdominal procedures	2,370	0.04%
279: Hepatic coma and other major acute liver disorders	17,122	0.26%
280: Alcoholic liver disease	23,235	0.36%
281: Malignancy of hepatobiliary system and pancreas	11,545	0.18%
282: Disorders of pancreas except malignancy	50,316	0.78%
283: Other disorders of the liver	15,106	0.23%
284: Disorders of gallbladder and biliary tract	21,079	0.33%
303: Dorsal and lumbar fusion procedure for curvature of back	3,912	0.06%
304: Dorsal and lumbar fusion procedure except for curvature of back	47,868	0.74%
305: Amputation of lower limb except toes	16,060	0.25%
308: Hip and femur fracture repair	47,724	0.74%
309: Other significant hip and femur surgery	7,055	0.11%
310: Intervertebral disc excision and decompression	9,565	0.15%
312: Skin graft, except hand, for musculoskeletal and connective tissue diagnoses	1,613	0.02%
313: Knee and lower leg procedures except foot	29,500	0.46%
314: Foot and toe procedures	15,026	0.23%

APRDRG	Frequency	Percent of Total
315: Shoulder, upper arm and forearm procedures except joint replacement	13,232	0.20%
316: Hand and wrist procedures	4,689	0.07%
317: Tendon, muscle and other soft tissue procedures	7,166	0.11%
320: Other musculoskeletal system and connective tissue procedures	10,846	0.17%
321: Cervical spinal fusion and other back or neck procedures except disc excision or decompression	25,709	0.40%
322: Shoulder and elbow joint replacement	25,116	0.39%
323: Non-elective or complex hip joint replacement	31,666	0.49%
324: Elective hip joint replacement	45,783	0.71%
325: Non-elective or complex knee joint replacement	10,967	0.17%
326: Elective knee joint replacement	61,393	0.95%
340: Fracture of femur	5,779	0.09%
341: Fracture of pelvis or dislocation of hip	6,222	0.10%
342: Fractures and dislocations except femur, pelvis and back	13,390	0.21%
343: Musculoskeletal malignancy and pathological fracture due to musculoskeletal malignancy	5,484	0.08%
344: Osteomyelitis, septic arthritis and other musculoskeletal infections	12,807	0.20%
346: Connective tissue disorders	6,960	0.11%
347: Other back and neck disorders, fractures and injuries	32,181	0.50%
349: Malfunction, reaction, complication of orthopedic device or procedure	6,603	0.10%
351: Other musculoskeletal system and connective tissue diagnoses	26,948	0.42%
361: Skin graft for skin and subcutaneous tissue diagnoses	3,072	0.05%
362: Mastectomy procedures	3,917	0.06%
363: Breast procedures except mastectomy	2,385	0.04%
364: Other skin, subcutaneous tissue and related procedures	17,165	0.27%
380: Skin ulcers	10,244	0.16%
381: Major skin disorders	1,638	0.03%
382: Malignant breast disorders	1,694	0.03%
383: Cellulitis and other skin infections	64,941	1.00%
384: Contusion, open wound and other trauma to skin and subcutaneous tissue	9,365	0.14%
385: Other skin, subcutaneous tissue and breast disorders	6,548	0.10%
401: Adrenal procedures	1,120	0.02%

APRDRG	Frequency	Percent of Total
403: Procedures for obesity	31,325	0.48%
404: Thyroid, parathyroid and thyroglossal procedures	2,620	0.04%
405: Other procedures for endocrine, nutritional and metabolic disorders	1,482	0.02%
420: Diabetes	73,542	1.14%
421: Malnutrition, failure to thrive and other nutritional disorders	8,543	0.13%
422: Hypovolemia and related electrolyte disorders	18,060	0.28%
423: Inborn errors of metabolism	1,638	0.03%
424: Other endocrine disorders	4,866	0.08%
425: Other non-hypovolemic electrolyte disorders	25,632	0.40%
426: Non-hypovolemic sodium disorders	31,749	0.49%
427: Thyroid disorders	2,815	0.04%
440: Kidney transplant	4,000	0.06%
441: Major bladder procedures	2,836	0.04%
442: Kidney and urinary tract procedures for malignancy	8,107	0.13%
443: Kidney and urinary tract procedures for non-malignancy	9,018	0.14%
444: Renal dialysis access device procedures and vessel repair	2,157	0.03%
445: Other bladder procedures	1,891	0.03%
446: Urethral and transurethral procedures	9,842	0.15%
447: Other kidney, urinary tract and related procedures	1,603	0.02%
461: Kidney and urinary tract malignancy	2,443	0.04%
462: Nephritis and nephrosis	1,999	0.03%
463: Kidney and urinary tract infections	80,356	1.24%
465: Urinary stones and acquired upper urinary tract obstruction	11,603	0.18%
466: Malfunction, reaction, complication of genitourinary device or procedure	39,992	0.62%
468: Other kidney and urinary tract diagnoses, signs and symptoms	8,925	0.14%
469: Acute kidney injury	91,586	1.42%
470: Chronic kidney disease	8,889	0.14%
480: Major male pelvic procedures	4,048	0.06%
482: Transurethral prostatectomy	2,457	0.04%
483: Penis, testes and scrotal procedures	1,710	0.03%

APRDRG	Frequency	Percent of Total
484: Other male reproductive system and related procedures	3,549	0.05%
500: Malignancy, male reproductive system	1,122	0.02%
501: Male reproductive system diagnoses except malignancy	5,691	0.09%
510: Pelvic evisceration, radical hysterectomy and other radical gynecological procedures	829	0.01%
511: Uterine and adnexa procedures for ovarian and adnexal malignancy	2,570	0.04%
512: Uterine and adnexa procedures for non-ovarian and non-adnexal malignancy	2,791	0.04%
513: Uterine and adnexa procedures for non-malignancy except leiomyoma	11,660	0.18%
514: Female reproductive system reconstructive procedures	848	0.01%
517: Dilation and curettage for non-obstetric diagnoses	937	0.01%
518: Other female reproductive system and related procedures	2,047	0.03%
519: Uterine and adnexa procedures for leiomyoma	10,640	0.16%
530: Female reproductive system malignancy	2,983	0.05%
531: Female reproductive system infections	3,273	0.05%
532: Menstrual and other female reproductive system disorders	3,500	0.05%
539: Cesarean section with sterilization	35,318	0.55%
540: Cesarean section without sterilization	186,447	2.88%
541: Vaginal delivery with sterilization and/or D&C	6,826	0.11%
542: Vaginal delivery with O.R. procedure except sterilization and/or D&C	15,731	0.24%
543: Abortion with D&C, aspiration curettage or hysterotomy	1,408	0.02%
547: Antepartum with O.R. procedure	4,145	0.06%
548: Postpartum and post abortion diagnosis with O.R. procedure	2,422	0.04%
560: Vaginal delivery	440,652	6.81%
561: Postpartum and post abortion diagnoses without procedure	13,153	0.20%
564: Abortion without D&C, aspiration curettage or hysterotomy	1,635	0.03%
566: Antepartum without O.R. procedure	37,055	0.57%
580: Neonate, transferred < 5 days old, not born here	395	0.01%
581: Neonate, transferred < 5 days old, born here	10,040	0.16%
583: Neonate with ECMO	176	0.00%
588: Neonate birth weight < 1500 grams with major procedure	556	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	1,081	0.02%

APRDRG	Frequency	Percent of Total
591: Neonate birth weight 500-749 grams without major procedure	938	0.01%
593: Neonate birth weight 750-999 grams without major procedure	1,720	0.03%
602: Neonate birth weight 1000-1249 grams with respiratory distress syndrome or other major respiratory condition or major anomaly	1,821	0.03%
603: Neonate birth weight 1000-1249 grams with or without significant condition	643	0.01%
607: Neonate birth weight 1250-1499 grams with respiratory distress syndrome or other major respiratory condition or major anomaly	2,098	0.03%
608: Neonate birth weight 1250-1499 grams with or without significant condition	660	0.01%
609: Neonate birth weight 1500-2499 grams with major procedure	407	0.01%
611: Neonate birth weight 1500-1999 grams with major anomaly	1,181	0.02%
612: Neonate birth weight 1500-1999 grams with respiratory distress syndrome or other major respiratory condition	3,844	0.06%
613: Neonate birth weight 1500-1999 grams with congenital or perinatal infection	180	0.00%
614: Neonate birth weight 1500-1999 grams with or without other significant condition	5,526	0.09%
621: Neonate birth weight 2000-2499 grams with major anomaly	1,518	0.02%
622: Neonate birth weight 2000-2499 grams with respiratory distress syndrome or other major respiratory condition	3,810	0.06%
623: Neonate birth weight 2000-2499 grams with congenital or perinatal infection	315	0.00%
625: Neonate birth weight 2000-2499 grams with other significant condition	3,338	0.05%
626: Neonate birth weight 2000-2499 grams, normal newborn or neonate with other problem	21,792	0.34%
630: Neonate birth weight > 2499 grams with major cardiovascular procedure	593	0.01%
631: Neonate birth weight > 2499 grams with other major procedure	1,015	0.02%
633: Neonate birth weight > 2499 grams with major anomaly	10,069	0.16%
634: Neonate birth weight > 2499 grams with respiratory distress syndrome or other major respiratory condition	13,423	0.21%
636: Neonate birth weight > 2499 grams with congenital or perinatal infection	2,839	0.04%
639: Neonate birth weight > 2499 grams with other significant condition	15,262	0.24%
640: Neonate birth weight > 2499 grams, normal newborn or neonate with other problem	604,420	9.34%
650: Splenectomy	764	0.01%
651: Other procedures of blood and blood-forming organs	949	0.01%
660: Major hematologic or immunologic diagnoses except sickle cell crisis and coagulation	15,458	0.24%
661: Coagulation and platelet disorders	8,265	0.13%

APRDRG	Frequency	Percent of Total
662: Sickle cell anemia crisis	15,266	0.24%
663: Other anemia and disorders of blood and blood-forming organs	34,039	0.53%
680: Major O.R. procedures for lymphatic, hematopoietic or other neoplasms	3,278	0.05%
681: Other O.R. procedures for lymphatic, hematopoietic or other neoplasms	4,413	0.07%
690: Acute leukemia	5,475	0.08%
691: Lymphoma, myeloma and non-acute leukemia	8,867	0.14%
692: Radiotherapy	303	0.00%
694: Lymphatic and other malignancies and neoplasms of uncertain behavior	5,331	0.08%
695: Chemotherapy for acute leukemia	6,078	0.09%
696: Other chemotherapy	18,810	0.29%
710: Infectious and parasitic diseases including HIV with O.R. procedure	54,864	0.85%
711: Post-operative, post-trauma, other device infections with O.R. procedure	12,387	0.19%
720: Septicemia and disseminated infections	420,282	6.49%
721: Post-operative, post-traumatic, other device infections	23,259	0.36%
722: Fever and inflammatory conditions	6,693	0.10%
723: Viral illness	5,973	0.09%
724: Other infectious and parasitic diseases	7,289	0.11%
740: Mental illness diagnosis with O.R. procedure	872	0.01%
750: Schizophrenia	62,116	0.96%
751: Major depressive disorders and other or unspecified psychoses	81,311	1.26%
752: Disorders of personality and impulse control	2,311	0.04%
753: Bipolar disorders	56,927	0.88%
754: Depression except major depressive disorder	18,461	0.29%
755: Adjustment disorders and neuroses except depressive diagnoses	8,228	0.13%
756: Acute anxiety and delirium states	8,956	0.14%
757: Organic mental health disturbances	1,751	0.03%
758: Behavioral disorders	3,083	0.05%
759: Eating disorders	1,246	0.02%
760: Other mental health disorders	2,437	0.04%
770: Drug and alcohol abuse or dependence, left against medical advice	10,211	0.16%

APRDRG	Frequency	Percent of Total
772: Alcohol and drug dependence with rehabilitation and/or detoxification therapy	6,323	0.10%
773: Opioid abuse and dependence	11,756	0.18%
774: Cocaine abuse and dependence	4,687	0.07%
775: Alcohol abuse and dependence	48,709	0.75%
776: Other drug abuse and dependence	7,263	0.11%
792: Extensive O.R. procedures for other complications of treatment	3,906	0.06%
793: Moderately extensive O.R. procedures for other complications of treatment	5,818	0.09%
794: Non-extensive O.R. procedures for other complications of treatment	1,110	0.02%
810: Hemorrhage or hematoma due to complication	2,951	0.05%
811: Allergic reactions	4,207	0.07%
812: Poisoning of medicinal agents	22,055	0.34%
813: Other complications of treatment	10,589	0.16%
815: Other injury, poisoning and toxic effect diagnoses	3,411	0.05%
816: Toxic effects of non-medicinal substances	9,237	0.14%
817: Intentional self-harm and attempted suicide	19,310	0.30%
841: Extensive third degree burns with skin graft	204	0.00%
842: Burns with skin graft except extensive third degree burns	2,744	0.04%
843: Extensive third degree burns without skin graft	714	0.01%
844: Partial thickness burns without skin graft	2,209	0.03%
850: Procedure with diagnosis of rehabilitation, aftercare or other contact with health services	5,191	0.08%
860: Rehabilitation	14,982	0.23%
861: Signs, symptoms and other factors influencing health status	24,953	0.39%
862: Other aftercare and convalescence	35,646	0.55%
863: Neonatal aftercare	438	0.01%
890: HIV with multiple major HIV related conditions	4,171	0.06%
892: HIV with major HIV related condition	2,894	0.04%
893: HIV with multiple significant HIV related conditions	557	0.01%
894: HIV with one significant HIV condition or without significant related conditions	1,255	0.02%
910: Craniotomy for multiple significant trauma	1,036	0.02%
911: Extensive abdominal or thoracic procedures for multiple significant trauma	3,787	0.06%

APRDRG	Frequency	Percent of Total
912: Musculoskeletal and other procedures for multiple significant trauma	11,787	0.18%
930: Multiple significant trauma without O.R. procedure	9,060	0.14%
950: Extensive O.R. procedure unrelated to principal diagnosis	11,221	0.17%
951: Moderately extensive O.R. procedure unrelated to principal diagnosis	17,706	0.27%
952: Non-extensive O.R. procedure unrelated to principal diagnosis	6,856	0.11%
955: Principal diagnosis invalid as discharge diagnosis	2,434	0.04%
956: Ungroupable	4,485	0.07%

APRDRG_Risk_Mortality	Frequency	Percent of Total
0: No class specified	6,919	0.11%
1: Minor likelihood of dying	3,217,170	49.72%
2: Moderate likelihood of dying	1,345,900	20.80%
3: Major likelihood of dying	1,237,861	19.13%
4: Extreme likelihood of dying	663,315	10.25%

APRDRG_Severity	Frequency	Percent of Total
0: No class specified	6,919	0.11%
1: Minor loss of function (includes cases with no comorbidity or complications)	1,944,636	30.05%
2: Moderate loss of function	2,284,218	35.30%
3: Major loss of function	1,556,322	24.05%
4: Extreme loss of function	679,070	10.49%