

HCUP Summary Statistics Report: NIS 2017 Severity File
Means of Continuous Data Elements

Variable / Label	N	N Miss	Minimum	Maximum	Mean	Std Dev
HOSP_NIS : NIS hospital number	7,159,694	0	10,003.00	90,538.00	51,023.84	24,423.80
KEY_NIS : NIS record number	7,159,694	0	10,000,001.00	90,983,820.00	51,196,441.10	24,406,575.28
APRDRG : All Patient Refined DRG	7,159,694	0	1.00	956.00	410.65	237.52
APRDRG_Risk_Mortality : All Patient Refined DRG: Risk of Mortality Subclass	7,159,694	0	0.00	4.00	1.79	0.98
APRDRG_Severity : All Patient Refined DRG: Severity of Illness Subclass	7,159,694	0	0.00	4.00	2.12	0.93

For more information about the coding of HCUP data elements.

HCUP Summary Statistics Report: NIS 2017 Severity File
Frequency Distribution for APRDRG

APRDRG	Frequency	Percent of Total
1: Liver transplant &/or intestinal transplant	1,541	0.02%
2: Heart &/or lung transplant	1,090	0.02%
4: Tracheostomy w MV 96+ hours w extensive procedure	7,169	0.10%
5: Tracheostomy w MV 96+ hours w/o extensive procedure	6,955	0.10%
6: Pancreas transplant	175	0.00%
7: Allogeneic bone marrow transplant	1,677	0.02%
8: Autologous bone marrow transplant	2,291	0.03%
9: Extracorporeal membrane oxygenation (ECMO)	1,792	0.03%
10: Head trauma with deep coma	394	0.01%
20: Craniotomy for trauma	4,674	0.07%
21: Craniotomy except for trauma	26,723	0.37%
22: Ventricular shunt procedures	4,152	0.06%
23: Spinal procedures	5,820	0.08%
24: Extracranial vascular procedures	26,348	0.37%
26: Other nervous system & related procedures	3,966	0.06%
40: Spinal disorders & injuries	2,999	0.04%
41: Nervous system malignancy	9,465	0.13%
42: Degenerative nervous system disorders exc mult sclerosis	17,923	0.25%
43: Multiple sclerosis & other demyelinating diseases	6,431	0.09%
44: Intracranial hemorrhage	18,572	0.26%
45: CVA & precerebral occlusion w infarct	96,489	1.35%
46: Nonspecific CVA & precerebral occlusion w/o infarct	2,558	0.04%
47: Transient ischemia	20,679	0.29%
48: Peripheral, cranial & autonomic nerve disorders	15,345	0.21%
49: Bacterial & tuberculous infections of nervous system	3,421	0.05%
50: Non-bacterial infections of nervous system exc viral meningitis	4,467	0.06%
51: Viral meningitis	2,677	0.04%
52: Alteration in consciousness	26,570	0.37%
53: Seizure	56,018	0.78%
54: Migraine & other headaches	13,532	0.19%

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Frequency Distribution for APRDRG***

APRDRG	Frequency	Percent of Total
55: Head trauma w coma >1 hr or hemorrhage	23,689	0.33%
56: Brain contusion/laceration & complicated skull Fx, coma < 1 hr or no coma	579	0.01%
57: Concussion, closed skull Fx nos,uncomplicated intracranial injury, coma < 1 hr or no coma	6,530	0.09%
58: Other disorders of nervous system	43,793	0.61%
59: Anoxic & other severe brain damage	1,228	0.02%
73: Orbit and eye procedures	1,785	0.02%
82: Eye infections and other eye disorders	5,917	0.08%
89: Major cranial/facial bone procedures	3,627	0.05%
91: Other major head & neck procedures	2,336	0.03%
92: Facial bone procedures except major cranial/facial bone procedures	4,323	0.06%
95: Cleft lip & palate repair	453	0.01%
97: Tonsil & adenoid procedures	2,143	0.03%
98: Other ear, nose, mouth & throat procedures	6,486	0.09%
110: Ear, nose, mouth, throat, cranial/facial malignancies	1,904	0.03%
111: Vertigo & other labyrinth disorders	8,063	0.11%
113: Infections of upper respiratory tract	32,160	0.45%
114: Dental diseases and disorders	2,451	0.03%
115: Other ear, nose, mouth,throat & cranial/facial diagnoses	14,285	0.20%
120: Major respiratory & chest procedures	7,905	0.11%
121: Other respiratory & chest procedures	16,620	0.23%
130: Respiratory system diagnosis w ventilator support 96+ hours	11,280	0.16%
131: Cystic fibrosis - pulmonary disease	3,841	0.05%
132: BPD & oth chronic respiratory diseases arising in perinatal period	1,389	0.02%
133: Respiratory failure	95,496	1.33%
134: Pulmonary embolism	36,840	0.51%
135: Major chest & respiratory trauma	15,504	0.22%
136: Respiratory malignancy	17,457	0.24%
137: Major respiratory infections & inflammations	42,548	0.59%
138: Bronchiolitis & RSV pneumonia	19,385	0.27%
139: Other pneumonia	118,466	1.65%

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Frequency Distribution for APRDRG***

APRDRG	Frequency	Percent of Total
140: Chronic obstructive pulmonary disease	148,680	2.08%
141: Asthma	36,104	0.50%
142: Interstitial & alveolar lung diseases	6,057	0.08%
143: Other respiratory diagnoses except signs, symptoms & minor diagnoses	21,687	0.30%
144: Respiratory signs, symptoms & minor diagnoses	8,575	0.12%
145: Acute bronchitis and related symptoms	14,201	0.20%
160: Major cardiothoracic repair of heart anomaly	11,144	0.16%
161: Cardiac defibrillator & heart assist implant	10,894	0.15%
162: Cardiac valve procedures w AMI or complex PDX	1,846	0.03%
163: Cardiac valve procedures w/o AMI or complex PDX	11,863	0.17%
165: Coronary bypass w AMI or complex PDX	10,889	0.15%
166: Coronary bypass w/o AMI or complex PDX	21,950	0.31%
167: Other cardiothoracic & thoracic vascular procedures	4,716	0.07%
169: Major abdominal vascular procedures	7,408	0.10%
170: Permanent cardiac pacemaker implant w AMI, heart failure or shock	405	0.01%
171: Perm cardiac pacemaker implant w/o AMI, heart failure or shock	19,497	0.27%
174: Percutaneous coronary intervention w AMI	60,208	0.84%
175: Percutaneous coronary intervention w/o AMI	47,471	0.66%
176: Cardiac pacemaker & defibrillator device replacement	3,035	0.04%
177: Cardiac pacemaker & defibrillator revision except device replacement	1,005	0.01%
180: Other circulatory system procedures	6,194	0.09%
181: Lower extremity arterial procedures	27,808	0.39%
182: Other peripheral vascular procedures	16,975	0.24%
190: Acute myocardial infarction	57,181	0.80%
191: Cardiac catheterization for coronary artery disease	16,452	0.23%
192: Cardiac catheterization for other non-coronary conditions	43,343	0.61%
193: Acute & subacute endocarditis	1,861	0.03%
194: Heart failure	212,623	2.97%
196: Cardiac arrest & shock	4,508	0.06%
197: Peripheral & other vascular disorders	32,554	0.45%

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APRDRG	Frequency	Percent of Total
198: Angina pectoris & coronary atherosclerosis	26,525	0.37%
199: Hypertension	28,389	0.40%
200: Cardiac structural & valvular disorders	3,370	0.05%
201: Cardiac arrhythmia & conduction disorders	103,580	1.45%
203: Chest pain	20,349	0.28%
204: Syncope & collapse	29,374	0.41%
205: Cardiomyopathy	1,256	0.02%
206: Malfunction, reaction, complication of cardiac/vasc device or procedure	9,074	0.13%
207: Other circulatory system diagnoses	19,476	0.27%
220: Major stomach, esophageal & duodenal procedures	14,804	0.21%
222: Other stomach, esophageal & duodenal procedures	3,921	0.05%
223: Other small & large bowel procedures	7,093	0.10%
224: Peritoneal adhesiolysis	7,397	0.10%
226: Anal procedures	2,509	0.04%
227: Hernia procedures except inguinal, femoral & umbilical	16,078	0.22%
228: Inguinal, femoral & umbilical hernia procedures	5,422	0.08%
229: Other digestive system & abdominal procedures	7,834	0.11%
230: Major small bowel procedures	29,241	0.41%
231: Major large bowel procedures	44,323	0.62%
232: Gastric fundoplication	790	0.01%
233: Appendectomy with complex principal diagnosis	12,315	0.17%
234: Appendectomy without complex principal diagnosis	14,014	0.20%
240: Digestive malignancy	14,368	0.20%
241: Peptic ulcer & gastritis	40,095	0.56%
242: Major esophageal disorders	7,877	0.11%
243: Other esophageal disorders	12,657	0.18%
244: Diverticulitis & diverticulosis	44,471	0.62%
245: Inflammatory bowel disease	16,625	0.23%
246: Gastrointestinal vascular insufficiency	6,431	0.09%
247: Intestinal obstruction	51,427	0.72%

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APRDRG	Frequency	Percent of Total
248: Major gastrointestinal & peritoneal infections	30,336	0.42%
249: Other gastroenteritis, nausea & vomiting	55,472	0.77%
251: Abdominal pain	13,821	0.19%
252: Malfunction, reaction & complication of GI device or procedure	11,444	0.16%
253: Other & unspecified gastrointestinal hemorrhage	40,813	0.57%
254: Other digestive system diagnoses	57,096	0.80%
260: Major pancreas, liver & shunt procedures	6,261	0.09%
261: Major biliary tract procedures	1,111	0.02%
263: Cholecystectomy	53,643	0.75%
264: Other hepatobiliary, pancreas & abdominal procedures	2,141	0.03%
279: Hepatic coma & other major acute liver disorders	18,356	0.26%
280: Alcoholic liver disease	17,400	0.24%
281: Malignancy of hepatobiliary system & pancreas	12,379	0.17%
282: Disorders of pancreas except malignancy	55,792	0.78%
283: Other disorders of the liver	13,800	0.19%
284: Disorders of gallbladder & biliary tract	23,008	0.32%
301: Hip joint replacement	114,514	1.60%
302: Knee joint replacement	162,908	2.28%
303: Dorsal & lumbar fusion proc for curvature of back	4,491	0.06%
304: Dorsal & lumbar fusion proc except for curvature of back	52,842	0.74%
305: Amputation of lower limb except toes	14,230	0.20%
308: Hip & femur fracture repair	47,296	0.66%
309: Other significant hip & femur surgery	8,713	0.12%
310: Intervertebral disc excision & decompression	12,764	0.18%
312: Skin graft, except hand, for musculoskeletal & connective tissue diagnoses	2,139	0.03%
313: Knee & lower leg procedures except foot	31,992	0.45%
314: Foot & toe procedures	16,097	0.22%
315: Shoulder, upper arm & forearm procedures except joint replacement	27,934	0.39%
316: Hand & wrist procedures	4,882	0.07%
317: Tendon, muscle & other soft tissue procedures	8,002	0.11%

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APRDRG	Frequency	Percent of Total
320: Other musculoskeletal system & connective tissue procedures	14,109	0.20%
321: Cervical spinal fusion & other back/neck proc exc disc excis/decomp	33,758	0.47%
322: Shoulder & elbow joint replacement	10,466	0.15%
340: Fracture of femur	6,603	0.09%
341: Fracture of pelvis or dislocation of hip	7,742	0.11%
342: Fractures & dislocations except femur, pelvis & back	15,329	0.21%
343: Musculoskeletal malignancy & pathol fracture d/t musckel malig	6,658	0.09%
344: Osteomyelitis, septic arthritis & other musculoskeletal infections	13,289	0.19%
346: Connective tissue disorders	8,276	0.12%
347: Other back & neck disorders, fractures & injuries	37,091	0.52%
349: Malfunction, reaction, complic of orthopedic device or procedure	6,652	0.09%
351: Other musculoskeletal system & connective tissue diagnoses	33,136	0.46%
361: Skin graft for skin & subcutaneous tissue diagnoses	6,477	0.09%
362: Mastectomy procedures	5,659	0.08%
363: Breast procedures except mastectomy	3,652	0.05%
364: Other skin, subcutaneous tissue & related procedures	18,530	0.26%
380: Skin ulcers	11,400	0.16%
381: Major skin disorders	2,118	0.03%
382: Malignant breast disorders	2,052	0.03%
383: Cellulitis & other skin infections	95,732	1.34%
384: Contusion, open wound & other trauma to skin & subcutaneous tissue	10,551	0.15%
385: Other skin, subcutaneous tissue & breast disorders	8,537	0.12%
401: Adrenal procedures	1,141	0.02%
403: Procedures for obesity	36,439	0.51%
404: Thyroid, parathyroid & thyroglossal procedures	3,772	0.05%
405: Other procedures for endocrine, nutritional & metabolic disorders	1,630	0.02%
420: Diabetes	76,241	1.06%
421: Malnutrition, failure to thrive & other nutritional disorders	8,756	0.12%
422: Hypovolemia & related electrolyte disorders	21,729	0.30%
423: Inborn errors of metabolism	1,925	0.03%

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APRDRG	Frequency	Percent of Total
424: Other endocrine disorders	5,297	0.07%
425: Other non-hypovolemic electrolyte disorders	24,485	0.34%
426: Non-hypovolemic sodium disorders	28,168	0.39%
427: Thyroid disorders	3,300	0.05%
440: Kidney transplant	3,574	0.05%
441: Major bladder procedures	2,872	0.04%
442: Kidney & urinary tract procedures for malignancy	9,263	0.13%
443: Kidney & urinary tract procedures for nonmalignancy	11,467	0.16%
444: Renal dialysis access device and vessel repair	2,138	0.03%
445: Other bladder procedures	1,965	0.03%
446: Urethral & transurethral procedures	10,685	0.15%
447: Other kidney, urinary tract & related procedures	1,711	0.02%
461: Kidney & urinary tract malignancy	2,764	0.04%
462: Nephritis & nephrosis	2,213	0.03%
463: Kidney & urinary tract infections	98,302	1.37%
465: Urinary stones & acquired upper urinary tract obstruction	15,692	0.22%
466: Malfunction, reaction, complic of genitourinary device or proc	35,435	0.49%
468: Other kidney & urinary tract diagnoses, signs & symptoms	11,437	0.16%
469: Acute kidney injury	105,301	1.47%
470: Chronic kidney disease	11,582	0.16%
480: Major male pelvic procedures	8,672	0.12%
482: Transurethral prostatectomy	3,433	0.05%
483: Penis, testes & scrotal procedures	2,080	0.03%
484: Other male reproductive system & related procedures	5,621	0.08%
500: Malignancy, male reproductive system	1,430	0.02%
501: Male reproductive system diagnoses except malignancy	6,912	0.10%
510: Pelvic evisceration, radical hysterectomy & other radical GYN procs	1,331	0.02%
511: Uterine & adnexa procedures for ovarian & adnexal malignancy	2,756	0.04%
512: Uterine & adnexa procedures for non-ovarian & non-adnexal malig	3,285	0.05%
513: Uterine & adnexa procedures for non-malignancy except leiomyoma	18,626	0.26%

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APRDRG	Frequency	Percent of Total
514: Female reproductive system reconstructive procedures	1,763	0.02%
517: Dilation & curettage for non-obstetric diagnoses	1,201	0.02%
518: Other female reproductive system & related procedures	2,626	0.04%
519: Uterine & adnexa procedures for leiomyoma	16,403	0.23%
530: Female reproductive system malignancy	3,358	0.05%
531: Female reproductive system infections	4,416	0.06%
532: Menstrual & other female reproductive system disorders	4,302	0.06%
540: Cesarean delivery	238,780	3.34%
541: Vaginal delivery w sterilization &/or D&C	16,430	0.23%
542: Vaginal delivery w complicating procedures exc sterilization &/or D&C	12,499	0.17%
544: D&C, aspiration curettage or hysterotomy for obstetric diagnoses	2,701	0.04%
545: Ectopic pregnancy procedure	1,696	0.02%
546: Other O.R. proc for obstetric diagnoses except delivery diagnoses	1,637	0.02%
560: Vaginal delivery	472,964	6.61%
561: Postpartum & post abortion diagnoses w/o procedure	10,346	0.14%
563: Preterm labor	7,022	0.10%
564: Abortion w/o D&C, aspiration curettage or hysterotomy	841	0.01%
565: False labor	1,675	0.02%
566: Other antepartum diagnoses	34,174	0.48%
580: Neonate, transferred <5 days old, not born here	523	0.01%
581: Neonate, transferred < 5 days old, born here	10,923	0.15%
583: Neonate w ECMO	215	0.00%
588: Neonate bwt <1500g w major procedure	592	0.01%
589: Neonate bwt <500g or GA <24 weeks	2,469	0.03%
591: Neonate birthwt 500-749g w/o major procedure	1,014	0.01%
593: Neonate birthwt 750-999g w/o major procedure	1,857	0.03%
602: Neonate bwt 1000-1249g w resp dist synd/oth maj resp or maj anom	1,999	0.03%
603: Neonate birthwt 1000-1249g w or w/o other significant condition	872	0.01%
607: Neonate bwt 1250-1499g w resp dist synd/oth maj resp or maj anom	2,229	0.03%
608: Neonate bwt 1250-1499g w or w/o other significant condition	984	0.01%

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APRDRG	Frequency	Percent of Total
609: Neonate bwt 1500-2499g w major procedure	418	0.01%
611: Neonate birthwt 1500-1999g w major anomaly	1,231	0.02%
612: Neonate bwt 1500-1999g w resp dist synd/oth maj resp cond	3,513	0.05%
613: Neonate birthwt 1500-1999g w congenital/perinatal infection	363	0.01%
614: Neonate bwt 1500-1999g w or w/o other significant condition	6,346	0.09%
621: Neonate bwt 2000-2499g w major anomaly	1,460	0.02%
622: Neonate bwt 2000-2499g w resp dist synd/oth maj resp cond	3,527	0.05%
623: Neonate bwt 2000-2499g w congenital/perinatal infection	612	0.01%
625: Neonate bwt 2000-2499g w other significant condition	3,755	0.05%
626: Neonate bwt 2000-2499g, normal newborn or neonate w other problem	23,229	0.32%
630: Neonate birthwt >2499g w major cardiovascular procedure	627	0.01%
631: Neonate birthwt >2499g w other major procedure	1,067	0.01%
633: Neonate birthwt >2499g w major anomaly	9,634	0.13%
634: Neonate, birthwt >2499g w resp dist synd/oth maj resp cond	11,499	0.16%
636: Neonate birthwt >2499g w congenital/perinatal infection	4,770	0.07%
639: Neonate birthwt >2499g w other significant condition	16,374	0.23%
640: Neonate birthwt >2499g, normal newborn or neonate w other problem	651,508	9.10%
650: Splenectomy	1,037	0.01%
651: Other procedures of blood & blood-forming organs	1,205	0.02%
660: Major hematologic/immunologic diag exc sickle cell crisis & coagul	18,231	0.25%
661: Coagulation & platelet disorders	9,054	0.13%
662: Sickle cell anemia crisis	18,166	0.25%
663: Other anemia & disorders of blood & blood-forming organs	37,684	0.53%
680: Major O.R. procedures for lymphatic/hematopoietic/other neoplasms	3,100	0.04%
681: Other O.R. procedures for lymphatic/hematopoietic/other neoplasms	4,773	0.07%
690: Acute leukemia	4,658	0.07%
691: Lymphoma, myeloma & non-acute leukemia	10,255	0.14%
692: Radiotherapy	488	0.01%
694: Lymphatic & other malignancies & neoplasms of uncertain behavior	5,704	0.08%
695: Chemotherapy for acute leukemia	5,950	0.08%

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696: Other chemotherapy	22,032	0.31%
710: Infectious & parasitic diseases including HIV w O.R. procedure	45,650	0.64%
711: Post-op, post-trauma, other device infections w O.R. procedure	12,992	0.18%
720: Septicemia & disseminated infections	368,266	5.14%
721: Post-operative, post-traumatic, other device infections	26,747	0.37%
722: Fever	8,736	0.12%
723: Viral illness	9,158	0.13%
724: Other infectious & parasitic diseases	8,161	0.11%
740: Mental illness diagnosis w O.R. procedure	797	0.01%
750: Schizophrenia	65,087	0.91%
751: Major depressive disorders & other/unspecified psychoses	93,944	1.31%
752: Disorders of personality & impulse control	2,339	0.03%
753: Bipolar disorders	66,166	0.92%
754: Depression except major depressive disorder	27,477	0.38%
755: Adjustment disorders & neuroses except depressive diagnoses	9,455	0.13%
756: Acute anxiety & delirium states	9,596	0.13%
757: Organic mental health disturbances	13,358	0.19%
758: Behavioral disorders	4,287	0.06%
759: Eating disorders	1,019	0.01%
760: Other mental health disorders	2,415	0.03%
770: Drug & alcohol abuse or dependence, left against medical advice	9,626	0.13%
772: Alcohol & drug dependence w rehab or rehab/detox therapy	7,567	0.11%
773: Opioid abuse & dependence	17,691	0.25%
774: Cocaine abuse & dependence	5,090	0.07%
775: Alcohol abuse & dependence	45,755	0.64%
776: Other drug abuse & dependence	6,791	0.09%
792: Extensive OR procedures for other complications of treatment	3,990	0.06%
793: Moderately extensive OR procedures for other complications of treatment	6,903	0.10%
794: Non-extensive OR procedures for other complications of treatment	1,289	0.02%
810: Hemorrhage or hematoma due to complication	3,797	0.05%

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APRDRG	Frequency	Percent of Total
811: Allergic reactions	5,264	0.07%
812: Poisoning of medicinal agents	32,735	0.46%
813: Other complications of treatment	11,636	0.16%
815: Other injury, poisoning & toxic effect diagnoses	3,862	0.05%
816: Toxic effects of non-medicinal substances	11,131	0.16%
817: Overdose	13,986	0.20%
841: Extensive 3rd degree burns w skin graft	227	0.00%
842: Burns w skin graft except extensive 3rd degree burns	2,615	0.04%
843: Extensive 3rd degree or full thickness burns w/o skin graft	87	0.00%
844: Partial thickness burns w/o skin graft	3,328	0.05%
850: Procedure w diag of rehab, aftercare or oth contact w health service	8,286	0.12%
860: Rehabilitation	11,366	0.16%
861: Signs, symptoms & other factors influencing health status	32,600	0.46%
862: Other aftercare & convalescence	28,183	0.39%
863: Neonatal aftercare	573	0.01%
890: HIV w multiple major HIV related conditions	4,750	0.07%
892: HIV w major HIV related condition	4,240	0.06%
893: HIV w multiple significant HIV related conditions	881	0.01%
894: HIV w one signif HIV cond or w/o signif related cond	2,102	0.03%
910: Craniotomy for multiple significant trauma	923	0.01%
911: Extensive abdominal/thoracic procedures for mult significant trauma	3,315	0.05%
912: Musculoskeletal & other procedures for multiple significant trauma	10,111	0.14%
930: Multiple significant trauma w/o O.R. procedure	8,797	0.12%
950: Extensive procedure unrelated to principal diagnosis	16,861	0.24%
951: Moderately extensive procedure unrelated to principal diagnosis	21,411	0.30%
952: Nonextensive procedure unrelated to principal diagnosis	9,283	0.13%
955: Principal diagnosis invalid as discharge diagnosis	84	0.00%
956: Ungroupable	4,588	0.06%

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***HCUP Summary Statistics Report: NIS 2017 Severity File
Frequency Distribution for APRDRG_RISK_MORTALITY***

APRDRG_Risk_Mortality	Frequency	Percent of Total
0: No class specified	4,672	0.07%
1: Minor likelihood of dying	3,810,404	53.22%
2: Moderate likelihood of dying	1,542,414	21.54%
3: Major likelihood of dying	1,273,867	17.79%
4: Extreme likelihood of dying	528,337	7.38%

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***HCUP Summary Statistics Report: NIS 2017 Severity File
Frequency Distribution for APRDRG_SEVERITY***

APRDRG_Severity	Frequency	Percent of Total
0: No class specified	4,672	0.07%
1: Minor loss of function (includes cases with no comorbidity or complications)	2,156,965	30.13%
2: Moderate loss of function	2,587,356	36.14%
3: Major loss of function	1,826,182	25.51%
4: Extreme loss of function	584,519	8.16%

***For more information about the coding of HCUP data elements,
please refer to the section on Description of Data Elements.***