

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

Variable / Label	N	N Miss	Minimum	Maximum	Mean	Std Dev
APRDRG : All Patient Refined DRG	17,197,683	0	1.00	956.00	394.78	234.84
APRDRG_Risk_Mortality : All Patient Refined DRG: Risk of Mortality Subclass	17,197,683	0	0.00	4.00	1.79	0.97
APRDRG_Severity : All Patient Refined DRG: Severity of Illness Subclass	17,197,683	0	0.00	4.00	2.11	0.91
HOSP_NRD : NRD hospital identifier	17,197,683	0	31,001.00	34,538.00	32,733.46	1,020.07

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HCUP Summary Statistics Report: NRD 2016 Severity File
Frequency Distribution for APRDRG

APRDRG	Frequency	Percent of Total
1: Liver transplant &/or intestinal transplant	3,883	0.02%
2: Heart &/or lung transplant	2,760	0.02%
3: Bone marrow transplant	9,570	0.06%
4: Tracheostomy w MV 96+ hours w extensive procedure or ECMO	24,546	0.14%
5: Tracheostomy w MV 96+ hours w/o extensive procedure	14,372	0.08%
6: Pancreas transplant	448	0.00%
20: Craniotomy for trauma	9,342	0.05%
21: Craniotomy except for trauma	61,706	0.36%
22: Ventricular shunt procedures	9,704	0.06%
23: Spinal procedures	14,802	0.09%
24: Extracranial vascular procedures	65,539	0.38%
26: Other nervous system & related procedures	11,500	0.07%
40: Spinal disorders & injuries	6,664	0.04%
41: Nervous system malignancy	23,816	0.14%
42: Degenerative nervous system disorders exc mult sclerosis	45,273	0.26%
43: Multiple sclerosis & other demyelinating diseases	15,641	0.09%
44: Intracranial hemorrhage	44,375	0.26%
45: CVA & precerebral occlusion w infarct	222,706	1.29%
46: Nonspecific CVA & precerebral occlusion w/o infarct	6,314	0.04%
47: Transient ischemia	64,374	0.37%
48: Peripheral, cranial & autonomic nerve disorders	40,492	0.24%
49: Bacterial & tuberculous infections of nervous system	6,714	0.04%
50: Non-bacterial infections of nervous system exc viral meningitis	10,335	0.06%
51: Viral meningitis	5,682	0.03%
52: Nontraumatic stupor & coma	66,952	0.39%
53: Seizure	131,407	0.76%

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Frequency Distribution for APRDRG**

APRDRG	Frequency	Percent of Total
54: Migraine & other headaches	37,133	0.22%
55: Head trauma w coma >1 hr or hemorrhage	57,324	0.33%
56: Brain contusion/laceration & complicated skull Fx, coma < 1 hr or no coma	1,552	0.01%
57: Concussion, closed skull Fx nos,uncomplicated intracranial injury, coma < 1 hr or no coma	16,196	0.09%
58: Other disorders of nervous system	106,649	0.62%
70: Orbital procedures	1,975	0.01%
73: Eye procedures except orbit	2,686	0.02%
80: Acute major eye infections	3,589	0.02%
82: Eye disorders except major infections	11,557	0.07%
89: Major cranial/facial bone procedures	8,406	0.05%
90: Major larynx & trachea procedures	2,381	0.01%
91: Other major head & neck procedures	4,413	0.03%
92: Facial bone procedures except major cranial/facial bone procedures	11,178	0.06%
93: Sinus & mastoid procedures	1,751	0.01%
95: Cleft lip & palate repair	651	0.00%
97: Tonsil & adenoid procedures	7,180	0.04%
98: Other ear, nose, mouth & throat procedures	16,236	0.09%
110: Ear, nose, mouth, throat, cranial/facial malignancies	4,362	0.03%
111: Vertigo & other labyrinth disorders	24,569	0.14%
113: Infections of upper respiratory tract	51,168	0.30%
114: Dental & oral diseases & injuries	16,905	0.10%
115: Other ear, nose, mouth,throat & cranial/facial diagnoses	25,264	0.15%
120: Major respiratory & chest procedures	40,256	0.23%
121: Other respiratory & chest procedures	32,768	0.19%
130: Respiratory system diagnosis w ventilator support 96+ hours	24,118	0.14%
131: Cystic fibrosis - pulmonary disease	8,996	0.05%

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Frequency Distribution for APRDRG

APRDRG	Frequency	Percent of Total
132: BPD & oth chronic respiratory diseases arising in perinatal period	1,427	0.01%
133: Respiratory failure	199,423	1.16%
134: Pulmonary embolism	93,558	0.54%
135: Major chest & respiratory trauma	36,807	0.21%
136: Respiratory malignancy	45,161	0.26%
137: Major respiratory infections & inflammations	113,191	0.66%
138: Bronchiolitis & RSV pneumonia	25,279	0.15%
139: Other pneumonia	358,259	2.08%
140: Chronic obstructive pulmonary disease	330,087	1.92%
141: Asthma	91,292	0.53%
142: Interstitial & alveolar lung diseases	15,818	0.09%
143: Other respiratory diagnoses except signs, symptoms & minor diagnoses	55,560	0.32%
144: Respiratory signs, symptoms & minor diagnoses	61,175	0.36%
160: Major cardiothoracic repair of heart anomaly	1,449	0.01%
161: Cardiac defibrillator & heart assist implant	25,316	0.15%
162: Cardiac valve procedures w AMI or complex PDX	8,776	0.05%
163: Cardiac valve procedures w/o AMI or complex PDX	42,073	0.24%
165: Coronary bypass w AMI or complex PDX	29,353	0.17%
166: Coronary bypass w/o AMI or complex PDX	59,665	0.35%
167: Other cardiothoracic & thoracic vascular procedures	28,352	0.16%
169: Major abdominal vascular procedures	19,580	0.11%
170: Permanent cardiac pacemaker implant w AMI, heart failure or shock	2,249	0.01%
171: Perm cardiac pacemaker implant w/o AMI, heart failure or shock	49,839	0.29%
174: Percutaneous coronary intervention w AMI	154,167	0.90%
175: Percutaneous coronary intervention w/o AMI	126,754	0.74%
176: Cardiac pacemaker & defibrillator device replacement	7,750	0.05%

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Frequency Distribution for APRDRG**

APRDRG	Frequency	Percent of Total
177: Cardiac pacemaker & defibrillator revision except device replacement	4,967	0.03%
180: Other circulatory system procedures	13,886	0.08%
181: Lower extremity arterial procedures	76,322	0.44%
182: Other peripheral vascular procedures	48,681	0.28%
190: Acute myocardial infarction	133,401	0.78%
191: Cardiac catheterization for coronary artery disease	44,272	0.26%
192: Cardiac catheterization for other non-coronary conditions	108,892	0.63%
193: Acute & subacute endocarditis	4,371	0.03%
194: Heart failure	513,297	2.98%
196: Cardiac arrest & shock	9,956	0.06%
197: Peripheral & other vascular disorders	85,780	0.50%
198: Angina pectoris & coronary atherosclerosis	81,288	0.47%
199: Hypertension	49,435	0.29%
200: Cardiac structural & valvular disorders	8,462	0.05%
201: Cardiac arrhythmia & conduction disorders	273,494	1.59%
203: Chest pain	74,797	0.43%
204: Syncope & collapse	89,147	0.52%
205: Cardiomyopathy	3,531	0.02%
206: Malfunction, reaction, complication of cardiac/vasc device or procedure	20,197	0.12%
207: Other circulatory system diagnoses	46,631	0.27%
220: Major stomach, esophageal & duodenal procedures	53,019	0.31%
221: Major small & large bowel procedures	175,417	1.02%
222: Other stomach, esophageal & duodenal procedures	20,956	0.12%
223: Other small & large bowel procedures	46,542	0.27%
224: Peritoneal adhesiolysis	16,933	0.10%
225: Appendectomy	76,261	0.44%

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Frequency Distribution for APRDRG***

APRDRG	Frequency	Percent of Total
226: Anal procedures	8,297	0.05%
227: Hernia procedures except inguinal, femoral & umbilical	44,383	0.26%
228: Inguinal, femoral & umbilical hernia procedures	14,734	0.09%
229: Other digestive system & abdominal procedures	30,243	0.18%
240: Digestive malignancy	34,746	0.20%
241: Peptic ulcer & gastritis	100,687	0.59%
242: Major esophageal disorders	10,839	0.06%
243: Other esophageal disorders	41,574	0.24%
244: Diverticulitis & diverticulosis	120,756	0.70%
245: Inflammatory bowel disease	43,950	0.26%
246: Gastrointestinal vascular insufficiency	19,751	0.11%
247: Intestinal obstruction	136,473	0.79%
248: Major gastrointestinal & peritoneal infections	78,590	0.46%
249: Other gastroenteritis, nausea & vomiting	150,973	0.88%
251: Abdominal pain	45,193	0.26%
252: Malfunction, reaction & complication of GI device or procedure	28,201	0.16%
253: Other & unspecified gastrointestinal hemorrhage	112,375	0.65%
254: Other digestive system diagnoses	141,600	0.82%
260: Major pancreas, liver & shunt procedures	19,525	0.11%
261: Major biliary tract procedures	12,149	0.07%
262: Cholecystectomy except laparoscopic	12,338	0.07%
263: Laparoscopic cholecystectomy	137,124	0.80%
264: Other hepatobiliary, pancreas & abdominal procedures	26,859	0.16%
279: Hepatic coma & other major acute liver disorders	40,313	0.23%
280: Alcoholic liver disease	34,391	0.20%
281: Malignancy of hepatobiliary system & pancreas	29,468	0.17%

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APRDRG	Frequency	Percent of Total
282: Disorders of pancreas except malignancy	139,343	0.81%
283: Other disorders of the liver	29,611	0.17%
284: Disorders of gallbladder & biliary tract	52,202	0.30%
301: Hip joint replacement	297,742	1.73%
302: Knee joint replacement	418,851	2.44%
303: Dorsal & lumbar fusion proc for curvature of back	10,385	0.06%
304: Dorsal & lumbar fusion proc except for curvature of back	137,471	0.80%
305: Amputation of lower limb except toes	32,313	0.19%
308: Hip & femur fracture repair	116,873	0.68%
309: Other significant hip & femur surgery	21,551	0.13%
310: Intervertebral disc excision & decompression	41,010	0.24%
312: Skin graft, except hand, for musculoskeletal & connective tissue diagnoses	5,564	0.03%
313: Knee & lower leg procedures except foot	84,213	0.49%
314: Foot & toe procedures	42,775	0.25%
315: Shoulder, upper arm & forearm procedures except joint replacement	69,119	0.40%
316: Hand & wrist procedures	12,570	0.07%
317: Tendon, muscle & other soft tissue procedures	20,816	0.12%
320: Other musculoskeletal system & connective tissue procedures	39,263	0.23%
321: Cervical spinal fusion & other back/neck proc exc disc excis/decomp	104,931	0.61%
322: Shoulder & elbow joint replacement	27,520	0.16%
340: Fracture of femur	15,253	0.09%
341: Fracture of pelvis or dislocation of hip	20,211	0.12%
342: Fractures & dislocations except femur, pelvis & back	40,891	0.24%
343: Musculoskeletal malignancy & pathol fracture d/t muscskel malig	15,657	0.09%
344: Osteomyelitis, septic arthritis & other musculoskeletal infections	32,245	0.19%
346: Connective tissue disorders	20,444	0.12%

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APRDRG	Frequency	Percent of Total
347: Other back & neck disorders, fractures & injuries	99,576	0.58%
349: Malfunction, reaction, complic of orthopedic device or procedure	16,505	0.10%
351: Other musculoskeletal system & connective tissue diagnoses	91,634	0.53%
361: Skin graft for skin & subcutaneous tissue diagnoses	18,604	0.11%
362: Mastectomy procedures	18,573	0.11%
363: Breast procedures except mastectomy	10,852	0.06%
364: Other skin, subcutaneous tissue & related procedures	48,956	0.28%
380: Skin ulcers	28,738	0.17%
381: Major skin disorders	4,544	0.03%
382: Malignant breast disorders	5,280	0.03%
383: Cellulitis & other skin infections	260,376	1.51%
384: Contusion, open wound & other trauma to skin & subcutaneous tissue	28,827	0.17%
385: Other skin, subcutaneous tissue & breast disorders	21,652	0.13%
401: Pituitary & adrenal procedures	8,761	0.05%
403: Procedures for obesity	93,548	0.54%
404: Thyroid, parathyroid & thyroglossal procedures	12,586	0.07%
405: Other procedures for endocrine, nutritional & metabolic disorders	4,155	0.02%
420: Diabetes	183,726	1.07%
421: Malnutrition, failure to thrive & other nutritional disorders	18,359	0.11%
422: Hypovolemia & related electrolyte disorders	76,710	0.45%
423: Inborn errors of metabolism	4,114	0.02%
424: Other endocrine disorders	37,687	0.22%
425: Electrolyte disorders except hypovolemia related	88,783	0.52%
440: Kidney transplant	9,596	0.06%
441: Major bladder procedures	10,560	0.06%
442: Kidney & urinary tract procedures for malignancy	25,393	0.15%

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APRDRG	Frequency	Percent of Total
443: Kidney & urinary tract procedures for nonmalignancy	44,851	0.26%
444: Renal dialysis access device procedure only	5,840	0.03%
445: Other bladder procedures	2,873	0.02%
446: Urethral & transurethral procedures	27,741	0.16%
447: Other kidney, urinary tract & related procedures	7,921	0.05%
461: Kidney & urinary tract malignancy	6,893	0.04%
462: Nephritis & nephrosis	4,844	0.03%
463: Kidney & urinary tract infections	252,273	1.47%
465: Urinary stones & acquired upper urinary tract obstruction	41,086	0.24%
466: Malfunction, reaction, complic of genitourinary device or proc	77,544	0.45%
468: Other kidney & urinary tract diagnoses, signs & symptoms	31,713	0.18%
469: Acute kidney injury	258,800	1.50%
470: Chronic kidney disease	51,430	0.30%
480: Major male pelvic procedures	21,825	0.13%
481: Penis procedures	3,589	0.02%
482: Transurethral prostatectomy	10,695	0.06%
483: Testes & scrotal procedures	2,165	0.01%
484: Other male reproductive system & related procedures	15,989	0.09%
500: Malignancy, male reproductive system	3,536	0.02%
501: Male reproductive system diagnoses except malignancy	18,095	0.11%
510: Pelvic evisceration, radical hysterectomy & other radical GYN procs	4,651	0.03%
511: Uterine & adnexa procedures for ovarian & adnexal malignancy	7,454	0.04%
512: Uterine & adnexa procedures for non-ovarian & non-adnexal malig	10,438	0.06%
513: Uterine & adnexa procedures for non-malignancy except leiomyoma	59,681	0.35%
514: Female reproductive system reconstructive procedures	5,913	0.03%
517: Dilation & curettage for non-obstetric diagnoses	3,365	0.02%

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APRDRG	Frequency	Percent of Total
518: Other female reproductive system & related procedures	8,238	0.05%
519: Uterine & adnexa procedures for leiomyoma	52,236	0.30%
530: Female reproductive system malignancy	8,084	0.05%
531: Female reproductive system infections	11,436	0.07%
532: Menstrual & other female reproductive system disorders	12,083	0.07%
540: Cesarean delivery	628,971	3.66%
541: Vaginal delivery w sterilization &/or D&C	40,234	0.23%
542: Vaginal delivery w complicating procedures exc sterilization &/or D&C	34,150	0.20%
544: D&C, aspiration curettage or hysterotomy for obstetric diagnoses	6,593	0.04%
545: Ectopic pregnancy procedure	5,923	0.03%
546: Other O.R. proc for obstetric diagnoses except delivery diagnoses	4,616	0.03%
560: Vaginal delivery	1,249,223	7.26%
561: Postpartum & post abortion diagnoses w/o procedure	24,701	0.14%
563: Preterm labor	18,181	0.11%
564: Abortion w/o D&C, aspiration curettage or hysterotomy	2,145	0.01%
565: False labor	4,532	0.03%
566: Other antepartum diagnoses	87,896	0.51%
580: Neonate, transferred <5 days old, not born here	160	0.00%
581: Neonate, transferred < 5 days old, born here	4,795	0.03%
583: Neonate w ECMO	162	0.00%
588: Neonate bwt <1500g w major procedure	774	0.00%
589: Neonate bwt <500g or GA <24 weeks	5,118	0.03%
591: Neonate birthwt 500-749g w/o major procedure	971	0.01%
593: Neonate birthwt 750-999g w/o major procedure	1,781	0.01%
602: Neonate bwt 1000-1249g w resp dist synd/oth maj resp or maj anom	1,794	0.01%
603: Neonate birthwt 1000-1249g w or w/o other significant condition	570	0.00%

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Frequency Distribution for APRDRG

APRDRG	Frequency	Percent of Total
607: Neonate bwt 1250-1499g w resp dist synd/oth maj resp or maj anom	2,054	0.01%
608: Neonate bwt 1250-1499g w or w/o other significant condition	1,104	0.01%
609: Neonate bwt 1500-2499g w major procedure	532	0.00%
611: Neonate birthwt 1500-1999g w major anomaly	1,344	0.01%
612: Neonate bwt 1500-1999g w resp dist synd/oth maj resp cond	3,098	0.02%
613: Neonate birthwt 1500-1999g w congenital/perinatal infection	402	0.00%
614: Neonate bwt 1500-1999g w or w/o other significant condition	6,845	0.04%
621: Neonate bwt 2000-2499g w major anomaly	1,700	0.01%
622: Neonate bwt 2000-2499g w resp dist synd/oth maj resp cond	3,216	0.02%
623: Neonate bwt 2000-2499g w congenital/perinatal infection	705	0.00%
625: Neonate bwt 2000-2499g w other significant condition	4,204	0.02%
626: Neonate bwt 2000-2499g, normal newborn or neonate w other problem	25,256	0.15%
630: Neonate birthwt >2499g w major cardiovascular procedure	627	0.00%
631: Neonate birthwt >2499g w other major procedure	1,663	0.01%
633: Neonate birthwt >2499g w major anomaly	12,813	0.07%
634: Neonate, birthwt >2499g w resp dist synd/oth maj resp cond	10,368	0.06%
636: Neonate birthwt >2499g w congenital/perinatal infection	5,214	0.03%
639: Neonate birthwt >2499g w other significant condition	21,723	0.13%
640: Neonate birthwt >2499g, normal newborn or neonate w other problem	704,219	4.09%
650: Splenectomy	2,853	0.02%
651: Other procedures of blood & blood-forming organs	4,153	0.02%
660: Major hematologic/immunologic diag exc sickle cell crisis & coagul	45,026	0.26%
661: Coagulation & platelet disorders	16,872	0.10%
662: Sickle cell anemia crisis	46,597	0.27%
663: Other anemia & disorders of blood & blood-forming organs	101,570	0.59%
680: Major O.R. procedures for lymphatic/hematopoietic/other neoplasms	8,448	0.05%

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APRDRG	Frequency	Percent of Total
681: Other O.R. procedures for lymphatic/hematopoietic/other neoplasms	14,950	0.09%
690: Acute leukemia	11,872	0.07%
691: Lymphoma, myeloma & non-acute leukemia	23,708	0.14%
692: Radiotherapy	1,231	0.01%
694: Lymphatic & other malignancies & neoplasms of uncertain behavior	15,059	0.09%
695: Chemotherapy for acute leukemia	14,600	0.08%
696: Other chemotherapy	54,064	0.31%
710: Infectious & parasitic diseases including HIV w O.R. procedure	145,407	0.85%
711: Post-op, post-trauma, other device infections w O.R. procedure	36,769	0.21%
720: Septicemia & disseminated infections	854,450	4.97%
721: Post-operative, post-traumatic, other device infections	63,059	0.37%
722: Fever	21,545	0.13%
723: Viral illness	22,352	0.13%
724: Other infectious & parasitic diseases	18,078	0.11%
740: Mental illness diagnosis w O.R. procedure	2,220	0.01%
750: Schizophrenia	183,146	1.06%
751: Major depressive disorders & other/unspecified psychoses	205,771	1.20%
752: Disorders of personality & impulse control	6,259	0.04%
753: Bipolar disorders	169,759	0.99%
754: Depression except major depressive disorder	73,747	0.43%
755: Adjustment disorders & neuroses except depressive diagnoses	24,575	0.14%
756: Acute anxiety & delirium states	22,467	0.13%
757: Organic mental health disturbances	33,890	0.20%
758: Behavioral disorders	10,071	0.06%
759: Eating disorders	1,652	0.01%
760: Other mental health disorders	4,939	0.03%

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Frequency Distribution for APRDRG***

APRDRG	Frequency	Percent of Total
770: Drug & alcohol abuse or dependence, left against medical advice	28,852	0.17%
772: Alcohol & drug dependence w rehab or rehab/detox therapy	25,358	0.15%
773: Opioid abuse & dependence	44,798	0.26%
774: Cocaine abuse & dependence	12,505	0.07%
775: Alcohol abuse & dependence	116,316	0.68%
776: Other drug abuse & dependence	16,660	0.10%
791: O.R. procedure for other complications of treatment	27,220	0.16%
811: Allergic reactions	14,309	0.08%
812: Poisoning of medicinal agents	100,501	0.58%
813: Other complications of treatment	36,344	0.21%
815: Other injury, poisoning & toxic effect diagnoses	7,733	0.04%
816: Toxic effects of non-medicinal substances	25,574	0.15%
841: Extensive 3rd degree burns w skin graft	490	0.00%
842: Burns w skin graft except extensive 3rd degree burns	6,875	0.04%
843: Extensive 3rd degree or full thickness burns w/o skin graft	195	0.00%
844: Partial thickness burns w/o skin graft	7,338	0.04%
850: Procedure w diag of rehab, aftercare or oth contact w health service	23,568	0.14%
860: Rehabilitation	19,950	0.12%
861: Signs, symptoms & other factors influencing health status	82,313	0.48%
862: Other aftercare & convalescence	36,874	0.21%
863: Neonatal aftercare	495	0.00%
890: HIV w multiple major HIV related conditions	10,401	0.06%
892: HIV w major HIV related condition	9,695	0.06%
893: HIV w multiple significant HIV related conditions	1,958	0.01%
894: HIV w one signif HIV cond or w/o signif related cond	5,154	0.03%
910: Craniotomy for multiple significant trauma	1,802	0.01%

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APRDRG	Frequency	Percent of Total
911: Extensive abdominal/thoracic procedures for mult significant trauma	7,163	0.04%
912: Musculoskeletal & other procedures for multiple significant trauma	22,581	0.13%
930: Multiple significant trauma w/o O.R. procedure	19,681	0.11%
950: Extensive procedure unrelated to principal diagnosis	43,662	0.25%
951: Moderately extensive procedure unrelated to principal diagnosis	81,108	0.47%
952: Nonextensive procedure unrelated to principal diagnosis	31,480	0.18%
955: Principal diagnosis invalid as discharge diagnosis	563	0.00%
956: Ungroupable	10,423	0.06%

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Frequency Distribution for APRDRG_RISK_MORTALITY***

APRDRG_Risk_Mortality	Frequency	Percent of Total
0: No class specified	10,986	0.06%
1: Minor likelihood of dying	9,003,313	52.35%
2: Moderate likelihood of dying	3,974,109	23.11%
3: Major likelihood of dying	3,032,983	17.64%
4: Extreme likelihood of dying	1,176,292	6.84%

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Frequency Distribution for APRDRG_SEVERITY***

APRDRG_Severity	Frequency	Percent of Total
0: No class specified	10,986	0.06%
1: Minor loss of function (includes cases with no comorbidity or complications)	5,015,210	29.16%
2: Moderate loss of function	6,601,715	38.39%
3: Major loss of function	4,288,763	24.94%
4: Extreme loss of function	1,281,009	7.45%

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