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

Variable / Label	N	N Miss	Minimum	Maximum	Mean	Std Dev
APRDRG : All Patient Refined DRG	17,686,511	0	1.00	956.00	391.81	234.99
APRDRG_Risk_Mortality : All Patient Refined DRG: Risk of Mortality Subclass	17,686,511	0	0.00	4.00	1.89	1.00
APRDRG_Severity : All Patient Refined DRG: Severity of Illness Subclass	17,686,511	0	0.00	4.00	2.23	0.96
HOSP_NRD : NRD hospital identifier	17,686,511	0	51,001.00	54,651.00	52,777.10	1,053.82

APRDRG	Frequency	Percent of Total
1: Liver transplant &/or intestinal transplant	4,366	0.02%
2: Heart &/or lung transplant	3,149	0.02%
4: Tracheostomy w MV 96+ hours w extensive procedure	18,015	0.10%
5: Tracheostomy w MV 96+ hours w/o extensive procedure	17,564	0.10%
6: Pancreas transplant	515	0.00%
7: Allogeneic bone marrow transplant	4,263	0.02%
8: Autologous bone marrow transplant	6,078	0.03%
9: Extracorporeal membrane oxygenation (ECMO)	3,715	0.02%
10: Head trauma with deep coma	749	0.00%
20: Craniotomy for trauma	12,283	0.07%
21: Craniotomy except for trauma	70,480	0.40%
22: Ventricular shunt procedures	9,717	0.05%
23: Spinal procedures	14,900	0.08%
24: Extracranial vascular procedures	78,396	0.44%
26: Other nervous system & related procedures	10,127	0.06%
40: Spinal disorders & injuries	5,831	0.03%
41: Nervous system malignancy	25,004	0.14%
42: Degenerative nervous system disorders exc mult sclerosis	76,179	0.43%
43: Multiple sclerosis & other demyelinating diseases	16,219	0.09%
44: Intracranial hemorrhage	49,304	0.28%
45: CVA & precerebral occlusion w infarct	262,815	1.49%
46: Nonspecific CVA & precerebral occlusion w/o infarct	7,463	0.04%
47: Transient ischemia	56,629	0.32%
48: Peripheral, cranial & autonomic nerve disorders	40,948	0.23%
49: Bacterial & tuberculous infections of nervous system	7,899	0.04%
50: Non-bacterial infections of nervous system exc viral meningitis	10,320	0.06%

APRDRG	Frequency	Percent of Total
51: Viral meningitis	5,087	0.03%
52: Alteration in consciousness	73,766	0.42%
53: Seizure	138,241	0.78%
54: Migraine & other headaches	32,030	0.18%
55: Head trauma w coma >1 hr or hemorrhage	65,058	0.37%
56: Brain contusion/laceration & complicated skull Fx, coma < 1 hr or no coma	1,502	0.01%
57: Concussion, closed skull Fx nos,uncomplicated intracranial injury, coma < 1 hr or no coma	14,319	0.08%
58: Other disorders of nervous system	71,638	0.41%
59: Anoxic & other severe brain damage	2,393	0.01%
73: Orbit and eye procedures	4,263	0.02%
82: Eye infections and other eye disorders	15,469	0.09%
89: Major cranial/facial bone procedures	8,444	0.05%
91: Other major head & neck procedures	6,568	0.04%
92: Facial bone procedures except major cranial/facial bone procedures	10,642	0.06%
95: Cleft lip & palate repair	633	0.00%
97: Tonsil & adenoid procedures	4,634	0.03%
98: Other ear, nose, mouth & throat procedures	15,826	0.09%
110: Ear, nose, mouth, throat, cranial/facial malignancies	5,257	0.03%
111: Vertigo & other labyrinth disorders	24,078	0.14%
113: Infections of upper respiratory tract	92,065	0.52%
114: Dental diseases and disorders	6,124	0.03%
115: Other ear, nose, mouth,throat & cranial/facial diagnoses	35,629	0.20%
120: Major respiratory & chest procedures	23,791	0.13%
121: Other respiratory & chest procedures	47,918	0.27%
130: Respiratory system diagnosis w ventilator support 96+ hours	26,724	0.15%
131: Cystic fibrosis - pulmonary disease	9,236	0.05%

APRDRG	Frequency	Percent of Total
132: BPD & oth chronic respiratory diseases arising in perinatal period	2,065	0.01%
133: Respiratory failure	227,903	1.29%
134: Pulmonary embolism	100,694	0.57%
135: Major chest & respiratory trauma	44,161	0.25%
136: Respiratory malignancy	47,481	0.27%
137: Major respiratory infections & inflammations	125,585	0.71%
138: Bronchiolitis & RSV pneumonia	27,195	0.15%
139: Other pneumonia	362,436	2.05%
140: Chronic obstructive pulmonary disease	310,874	1.76%
141: Asthma	86,827	0.49%
142: Interstitial & alveolar lung diseases	17,274	0.10%
143: Other respiratory diagnoses except signs, symptoms & minor diagnoses	56,313	0.32%
144: Respiratory signs, symptoms & minor diagnoses	22,342	0.13%
145: Acute bronchitis and related symptoms	39,984	0.23%
160: Major cardiothoracic repair of heart anomaly	1,624	0.01%
161: Cardiac defibrillator & heart assist implant	32,576	0.18%
162: Cardiac valve procedures w AMI or complex PDX	7,874	0.04%
163: Cardiac valve procedures w/o AMI or complex PDX	48,976	0.28%
165: Coronary bypass w AMI or complex PDX	29,959	0.17%
166: Coronary bypass w/o AMI or complex PDX	61,235	0.35%
167: Other cardiothoracic & thoracic vascular procedures	18,656	0.11%
169: Major abdominal vascular procedures	20,850	0.12%
170: Permanent cardiac pacemaker implant w AMI, heart failure or shock	1,016	0.01%
171: Perm cardiac pacemaker implant w/o AMI, heart failure or shock	57,323	0.32%
174: Percutaneous coronary intervention w AMI	164,074	0.93%
175: Percutaneous coronary intervention w/o AMI	152,904	0.86%

APRDRG	Frequency	Percent of Total
176: Cardiac pacemaker & defibrillator device replacement	7,615	0.04%
177: Cardiac pacemaker & defibrillator revision except device replacement	2,709	0.02%
180: Other circulatory system procedures	16,614	0.09%
181: Lower extremity arterial procedures	79,262	0.45%
182: Other peripheral vascular procedures	47,774	0.27%
190: Acute myocardial infarction	140,180	0.79%
191: Cardiac catheterization for coronary artery disease	42,237	0.24%
192: Cardiac catheterization for other non-coronary conditions	120,267	0.68%
193: Acute & subacute endocarditis	4,856	0.03%
194: Heart failure	616,411	3.49%
196: Cardiac arrest & shock	11,968	0.07%
197: Peripheral & other vascular disorders	81,916	0.46%
198: Angina pectoris & coronary atherosclerosis	68,961	0.39%
199: Hypertension	82,223	0.46%
200: Cardiac structural & valvular disorders	8,480	0.05%
201: Cardiac arrhythmia & conduction disorders	276,718	1.56%
203: Chest pain	57,634	0.33%
204: Syncope & collapse	85,179	0.48%
205: Cardiomyopathy	3,303	0.02%
206: Malfunction,reaction,complication of cardiac/vasc device or procedure	24,424	0.14%
207: Other circulatory system diagnoses	54,001	0.31%
220: Major stomach, esophageal & duodenal procedures	38,291	0.22%
222: Other stomach, esophageal & duodenal procedures	7,554	0.04%
223: Other small & large bowel procedures	18,376	0.10%
224: Peritoneal adhesiolysis	20,394	0.12%
226: Anal procedures	6,999	0.04%

APRDRG	Frequency	Percent of Total
227: Hernia procedures except inguinal, femoral & umbilical	41,843	0.24%
228: Inguinal, femoral & umbilical hernia procedures	14,561	0.08%
229: Other digestive system & abdominal procedures	18,582	0.11%
230: Major small bowel procedures	80,735	0.46%
231: Major large bowel procedures	123,010	0.70%
232: Gastric fundoplication	1,684	0.01%
233: Appendectomy with complex principal diagnosis	28,736	0.16%
234: Appendectomy without complex principal diagnosis	34,958	0.20%
240: Digestive malignancy	40,491	0.23%
241: Peptic ulcer & gastritis	121,625	0.69%
242: Major esophageal disorders	24,606	0.14%
243: Other esophageal disorders	34,632	0.20%
244: Diverticulitis & diverticulosis	128,386	0.73%
245: Inflammatory bowel disease	44,814	0.25%
246: Gastrointestinal vascular insufficiency	17,205	0.10%
247: Intestinal obstruction	141,462	0.80%
248: Major gastrointestinal & peritoneal infections	77,114	0.44%
249: Other gastroenteritis, nausea & vomiting	137,744	0.78%
251: Abdominal pain	32,286	0.18%
252: Malfunction, reaction & complication of GI device or procedure	30,164	0.17%
253: Other & unspecified gastrointestinal hemorrhage	106,566	0.60%
254: Other digestive system diagnoses	149,172	0.84%
260: Major pancreas, liver & shunt procedures	17,381	0.10%
261: Major biliary tract procedures	2,767	0.02%
263: Cholecystectomy	143,496	0.81%
264: Other hepatobiliary, pancreas & abdominal procedures	5,377	0.03%

APRDRG	Frequency	Percent of Total
279: Hepatic coma & other major acute liver disorders	48,655	0.28%
280: Alcoholic liver disease	53,542	0.30%
281: Malignancy of hepatobiliary system & pancreas	34,552	0.20%
282: Disorders of pancreas except malignancy	144,778	0.82%
283: Other disorders of the liver	40,130	0.23%
284: Disorders of gallbladder & biliary tract	62,423	0.35%
301: Hip joint replacement	326,358	1.85%
302: Knee joint replacement	382,122	2.16%
303: Dorsal & lumbar fusion proc for curvature of back	10,832	0.06%
304: Dorsal & lumbar fusion proc except for curvature of back	145,322	0.82%
305: Amputation of lower limb except toes	41,373	0.23%
308: Hip & femur fracture repair	133,035	0.75%
309: Other significant hip & femur surgery	20,750	0.12%
310: Intervertebral disc excision & decompression	34,422	0.19%
312: Skin graft, except hand, for musculoskeletal & connective tissue diagnoses	5,170	0.03%
313: Knee & lower leg procedures except foot	85,376	0.48%
314: Foot & toe procedures	45,055	0.25%
315: Shoulder, upper arm & forearm procedures except joint replacement	37,649	0.21%
316: Hand & wrist procedures	13,594	0.08%
317: Tendon, muscle & other soft tissue procedures	21,859	0.12%
320: Other musculoskeletal system & connective tissue procedures	39,062	0.22%
321: Cervical spinal fusion & other back/neck proc exc disc excis/decomp	86,993	0.49%
322: Shoulder & elbow joint replacement	70,281	0.40%
340: Fracture of femur	16,188	0.09%
341: Fracture of pelvis or dislocation of hip	20,880	0.12%
342: Fractures & dislocations except femur, pelvis & back	42,312	0.24%

APRDRG	Frequency	Percent of Total
343: Musculoskeletal malignancy & pathol fracture d/t muscskel malig	17,915	0.10%
344: Osteomyelitis, septic arthritis & other musculoskeletal infections	36,621	0.21%
346: Connective tissue disorders	20,295	0.11%
347: Other back & neck disorders, fractures & injuries	101,787	0.58%
349: Malfunction, reaction, complic of orthopedic device or procedure	17,754	0.10%
351: Other musculoskeletal system & connective tissue diagnoses	88,092	0.50%
361: Skin graft for skin & subcutaneous tissue diagnoses	16,624	0.09%
362: Mastectomy procedures	15,273	0.09%
363: Breast procedures except mastectomy	9,679	0.05%
364: Other skin, subcutaneous tissue & related procedures	48,149	0.27%
380: Skin ulcers	31,917	0.18%
381: Major skin disorders	4,682	0.03%
382: Malignant breast disorders	5,558	0.03%
383: Cellulitis & other skin infections	246,236	1.39%
384: Contusion, open wound & other trauma to skin & subcutaneous tissue	28,532	0.16%
385: Other skin, subcutaneous tissue & breast disorders	21,811	0.12%
401: Adrenal procedures	3,023	0.02%
403: Procedures for obesity	105,098	0.59%
404: Thyroid, parathyroid & thyroglossal procedures	10,126	0.06%
405: Other procedures for endocrine, nutritional & metabolic disorders	4,383	0.02%
420: Diabetes	203,054	1.15%
421: Malnutrition, failure to thrive & other nutritional disorders	19,346	0.11%
422: Hypovolemia & related electrolyte disorders	54,527	0.31%
423: Inborn errors of metabolism	4,394	0.02%
424: Other endocrine disorders	13,540	0.08%
425: Other non-hypovolemic electrolyte disorders	64,464	0.36%

APRDRG	Frequency	Percent of Total
426: Non-hypovolemic sodium disorders	82,746	0.47%
427: Thyroid disorders	9,265	0.05%
440: Kidney transplant	10,679	0.06%
441: Major bladder procedures	7,638	0.04%
442: Kidney & urinary tract procedures for malignancy	25,190	0.14%
443: Kidney & urinary tract procedures for nonmalignancy	29,719	0.17%
444: Renal dialysis access device and vessel repair	5,474	0.03%
445: Other bladder procedures	5,801	0.03%
446: Urethral & transurethral procedures	29,836	0.17%
447: Other kidney, urinary tract & related procedures	5,040	0.03%
461: Kidney & urinary tract malignancy	7,531	0.04%
462: Nephritis & nephrosis	5,158	0.03%
463: Kidney & urinary tract infections	265,094	1.50%
465: Urinary stones & acquired upper urinary tract obstruction	41,851	0.24%
466: Malfunction, reaction, complic of genitourinary device or proc	109,261	0.62%
468: Other kidney & urinary tract diagnoses, signs & symptoms	29,087	0.16%
469: Acute kidney injury	297,747	1.68%
470: Chronic kidney disease	27,835	0.16%
480: Major male pelvic procedures	18,633	0.11%
482: Transurethral prostatectomy	9,567	0.05%
483: Penis, testes & scrotal procedures	5,252	0.03%
484: Other male reproductive system & related procedures	11,925	0.07%
500: Malignancy, male reproductive system	3,854	0.02%
501: Male reproductive system diagnoses except malignancy	17,830	0.10%
510: Pelvic evisceration, radical hysterectomy & other radical GYN procs	3,577	0.02%
511: Uterine & adnexa procedures for ovarian & adnexal malignancy	7,559	0.04%

APRDRG	Frequency	Percent of Total
512: Uterine & adnexa procedures for non-ovarian & non-adnexal malig	9,218	0.05%
513: Uterine & adnexa procedures for non-malignancy except leiomyoma	45,920	0.26%
514: Female reproductive system reconstructive procedures	3,903	0.02%
517: Dilation & curettage for non-obstetric diagnoses	3,303	0.02%
518: Other female reproductive system & related procedures	6,539	0.04%
519: Uterine & adnexa procedures for leiomyoma	43,302	0.24%
530: Female reproductive system malignancy	9,111	0.05%
531: Female reproductive system infections	10,113	0.06%
532: Menstrual & other female reproductive system disorders	10,869	0.06%
540: Cesarean delivery	621,102	3.51%
541: Vaginal delivery w sterilization &/or D&C	40,543	0.23%
542: Vaginal delivery w complicating procedures exc sterilization &/or D&C	32,793	0.19%
544: D&C, aspiration curettage or hysterotomy for obstetric diagnoses	6,730	0.04%
545: Ectopic pregnancy procedure	4,229	0.02%
546: Other O.R. proc for obstetric diagnoses except delivery diagnoses	4,420	0.02%
560: Vaginal delivery	1,243,805	7.03%
561: Postpartum & post abortion diagnoses w/o procedure	29,175	0.16%
563: Preterm labor	16,897	0.10%
564: Abortion w/o D&C, aspiration curettage or hysterotomy	2,168	0.01%
565: False labor	3,795	0.02%
566: Other antepartum diagnoses	87,165	0.49%
580: Neonate, transferred <5 days old, not born here	164	0.00%
581: Neonate, transferred < 5 days old, born here	4,407	0.02%
583: Neonate w ECMO	171	0.00%
588: Neonate bwt <1500g w major procedure	560	0.00%
589: Neonate bwt <500g or GA <24 weeks	2,488	0.01%

APRDRG	Frequency	Percent of Total
591: Neonate birthwt 500-749g w/o major procedure	841	0.00%
593: Neonate birthwt 750-999g w/o major procedure	1,631	0.01%
602: Neonate bwt 1000-1249g w resp dist synd/oth maj resp or maj anom	1,713	0.01%
603: Neonate birthwt 1000-1249g w or w/o other significant condition	351	0.00%
607: Neonate bwt 1250-1499g w resp dist synd/oth maj resp or maj anom	2,097	0.01%
608: Neonate bwt 1250-1499g w or w/o other significant condition	854	0.00%
609: Neonate bwt 1500-2499g w major procedure	382	0.00%
611: Neonate birthwt 1500-1999g w major anomaly	1,227	0.01%
612: Neonate bwt 1500-1999g w resp dist synd/oth maj resp cond	3,731	0.02%
613: Neonate birthwt 1500-1999g w congenital/perinatal infection	208	0.00%
614: Neonate bwt 1500-1999g w or w/o other significant condition	6,217	0.04%
621: Neonate bwt 2000-2499g w major anomaly	1,479	0.01%
622: Neonate bwt 2000-2499g w resp dist synd/oth maj resp cond	3,829	0.02%
623: Neonate bwt 2000-2499g w congenital/perinatal infection	381	0.00%
625: Neonate bwt 2000-2499g w other significant condition	3,536	0.02%
626: Neonate bwt 2000-2499g, normal newborn or neonate w other problem	24,517	0.14%
630: Neonate birthwt >2499g w major cardiovascular procedure	447	0.00%
631: Neonate birthwt >2499g w other major procedure	784	0.00%
633: Neonate birthwt >2499g w major anomaly	9,589	0.05%
634: Neonate, birthwt >2499g w resp dist synd/oth maj resp cond	11,650	0.07%
636: Neonate birthwt >2499g w congenital/perinatal infection	3,269	0.02%
639: Neonate birthwt >2499g w other significant condition	15,038	0.09%
640: Neonate birthwt >2499g, normal newborn or neonate w other problem	641,295	3.63%
650: Splenectomy	2,503	0.01%
651: Other procedures of blood & blood-forming organs	2,984	0.02%
660: Major hematologic/immunologic diag exc sickle cell crisis & coagul	47,111	0.27%

APRDRG	Frequency	Percent of Total
661: Coagulation & platelet disorders	25,027	0.14%
662: Sickle cell anemia crisis	46,791	0.26%
663: Other anemia & disorders of blood & blood-forming organs	101,377	0.57%
680: Major O.R. procedures for lymphatic/hematopoietic/other neoplasms	9,158	0.05%
681: Other O.R. procedures for lymphatic/hematopoietic/other neoplasms	12,470	0.07%
690: Acute leukemia	12,765	0.07%
691: Lymphoma, myeloma & non-acute leukemia	25,846	0.15%
692: Radiotherapy	908	0.01%
694: Lymphatic & other malignancies & neoplasms of uncertain behavior	16,112	0.09%
695: Chemotherapy for acute leukemia	15,191	0.09%
696: Other chemotherapy	51,880	0.29%
710: Infectious & parasitic diseases including HIV w O.R. procedure	133,436	0.75%
711: Post-op, post-trauma, other device infections w O.R. procedure	35,921	0.20%
720: Septicemia & disseminated infections	1,066,664	6.03%
721: Post-operative, post-traumatic, other device infections	72,135	0.41%
722: Fever	19,202	0.11%
723: Viral illness	22,688	0.13%
724: Other infectious & parasitic diseases	20,500	0.12%
740: Mental illness diagnosis w O.R. procedure	2,040	0.01%
750: Schizophrenia	187,828	1.06%
751: Major depressive disorders & other/unspecified psychoses	238,303	1.35%
752: Disorders of personality & impulse control	7,097	0.04%
753: Bipolar disorders	173,430	0.98%
754: Depression except major depressive disorder	67,023	0.38%
755: Adjustment disorders & neuroses except depressive diagnoses	25,585	0.14%
756: Acute anxiety & delirium states	25,858	0.15%

APRDRG	Frequency	Percent of Total
757: Organic mental health disturbances	5,617	0.03%
758: Behavioral disorders	8,931	0.05%
759: Eating disorders	1,661	0.01%
760: Other mental health disorders	5,603	0.03%
770: Drug & alcohol abuse or dependence, left against medical advice	29,984	0.17%
772: Alcohol & drug dependence w rehab or rehab/detox therapy	25,641	0.14%
773: Opioid abuse & dependence	37,908	0.21%
774: Cocaine abuse & dependence	15,156	0.09%
775: Alcohol abuse & dependence	126,269	0.71%
776: Other drug abuse & dependence	19,928	0.11%
792: Extensive OR procedures for other complications of treatment	11,979	0.07%
793: Moderately extensive OR procedures for other complications of treatment	18,804	0.11%
794: Non-extensive OR procedures for other complications of treatment	3,399	0.02%
810: Hemorrhage or hematoma due to complication	10,921	0.06%
811: Allergic reactions	15,198	0.09%
812: Poisoning of medicinal agents	75,299	0.43%
813: Other complications of treatment	32,315	0.18%
815: Other injury, poisoning & toxic effect diagnoses	9,166	0.05%
816: Toxic effects of non-medicinal substances	27,454	0.16%
817: Overdose	23,703	0.13%
841: Extensive 3rd degree burns w skin graft	554	0.00%
842: Burns w skin graft except extensive 3rd degree burns	6,965	0.04%
843: Extensive 3rd degree or full thickness burns w/o skin graft	182	0.00%
844: Partial thickness burns w/o skin graft	7,448	0.04%
850: Procedure w diag of rehab, aftercare or oth contact w health service	19,677	0.11%
860: Rehabilitation	12,307	0.07%

APRDRG	Frequency	Percent of Total
861: Signs, symptoms & other factors influencing health status	79,412	0.45%
862: Other aftercare & convalescence	24,078	0.14%
863: Neonatal aftercare	535	0.00%
890: HIV w multiple major HIV related conditions	11,872	0.07%
892: HIV w major HIV related condition	10,044	0.06%
893: HIV w multiple significant HIV related conditions	2,000	0.01%
894: HIV w one signif HIV cond or w/o signif related cond	4,916	0.03%
910: Craniotomy for multiple significant trauma	2,082	0.01%
911: Extensive abdominal/thoracic procedures for mult significant trauma	7,531	0.04%
912: Musculoskeletal & other procedures for multiple significant trauma	26,475	0.15%
930: Multiple significant trauma w/o O.R. procedure	22,532	0.13%
950: Extensive procedure unrelated to principal diagnosis	38,754	0.22%
951: Moderately extensive procedure unrelated to principal diagnosis	56,050	0.32%
952: Nonextensive procedure unrelated to principal diagnosis	19,871	0.11%
955: Principal diagnosis invalid as discharge diagnosis	159	0.00%
956: Ungroupable	7,393	0.04%

# 13:23 Monday, November 23, 2020 15 HCUP Summary Statistics Report: NRD 2018 Severity File Frequency Distribution for APRDRG\_RISK\_MORTALITY

APRDRG_Risk_Mortality	Frequency	Percent of Total
0: No class specified	7,552	0.04%
1: Minor likelihood of dying	8,532,460	48.24%
2: Moderate likelihood of dying	4,111,200	23.24%
3: Major likelihood of dying	3,542,256	20.03%
4: Extreme likelihood of dying	1,493,043	8.44%

# 13:23 Monday, November 23, 2020 16 HCUP Summary Statistics Report: NRD 2018 Severity File Frequency Distribution for APRDRG\_SEVERITY

APRDRG_Severity	Frequency	Percent of Total
0: No class specified	7,552	0.04%
1: Minor loss of function (includes cases with no comorbidity or complications)	4,553,502	25.75%
2: Moderate loss of function	6,370,294	36.02%
3: Major loss of function	4,793,467	27.10%
4: Extreme loss of function	1,961,696	11.09%