

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P1. No Procedure Listed [.] Number of diagnoses with this procedure = 260	13,609,385	100.00	39.05	2.25	2.0 (0.00)	2.3 (0.02)	\$1,710 (\$0)	\$4,043 (\$47)
d1. Liveborn [218]	2,163,719	15.90	6.21	0.30	1.9 (0.02)	1.1 (0.02)	\$1,399 (\$31)	\$799 (\$14)
d2. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	861,232	6.33	2.47	4.12	5.2 (0.03)	3.8 (0.02)	\$7,918 (\$90)	\$6,115 (\$67)
d3. Congestive heart failure, nonhypertensive [108]	644,789	4.74	1.85	3.82	4.9 (0.03)	3.5 (0.02)	\$7,669 (\$95)	\$6,151 (\$73)
d4. Affective disorders [69]	443,242	3.26	1.27	0.04	8.2 (0.22)	5.6 (0.10)	\$7,240 (\$270)	\$5,136 (\$123)
d5. Coronary atherosclerosis and other heart disease [101]	430,465	3.16	1.24	0.33	2.7 (0.04)	1.7 (0.02)	\$5,249 (\$75)	\$4,337 (\$59)
P2. Other procedures to assist delivery [137] Number of diagnoses with this procedure = 47	1,097,367	100.00	3.15	0.00	1.0 (0.00)	1.1 (0.02)	\$1,317 (\$0)	\$3,185 (\$69)
d1. Normal pregnancy and/or delivery [196]	236,767	21.58	0.68	0.00	1.5 (0.01)	0.9 (0.02)	\$3,162 (\$45)	\$2,925 (\$45)
d2. Trauma to perineum and vulva [193]	196,172	17.88	0.56	0.00	1.7 (0.02)	1.1 (0.03)	\$3,415 (\$100)	\$3,101 (\$103)
d3. Other complications of birth, puerperium affecting management of mother [195]	114,857	10.47	0.33	0.00	1.7 (0.02)	1.1 (0.03)	\$3,726 (\$81)	\$3,259 (\$82)
d4. Umbilical cord complication [192]	105,228	9.59	0.30	0.00	1.6 (0.01)	1.0 (0.02)	\$3,303 (\$58)	\$3,042 (\$59)
d5. Fetal distress and abnormal forces of labor [190]	86,643	7.90	0.25	0.00	1.6 (0.03)	1.0 (0.04)	\$3,372 (\$105)	\$3,025 (\$121)

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P3. Circumcision [115] Number of diagnoses with this procedure = 82	1,071,943	100.00	3.08	0.00	8.0 (0.00)	1.4 (0.01)	\$1,619 (\$0)	\$939 (\$16)
d1. Liveborn [218]	1,063,268	99.19	3.05	0.00	2.2 (0.02)	1.4 (0.01)	\$1,666 (\$45)	\$935 (\$16)
d2. Short gestation, low birth weight, and fetal growth retardation [219]	2,748	0.26	0.01	0.00	14.4 (0.66)	10.5 (0.61)	\$16,503 (\$1,420)	\$8,867 (\$911)
d3. Other perinatal conditions [224]	2,626	0.24	0.01	0.00	7.2 (0.42)	4.5 (0.33)	\$11,510 (\$851)	\$7,103 (\$696)
d4. Other male genital disorders [166]	556	0.05	0.00	1.01	1.6 (0.15)	0.7 (0.08)	\$4,589 (\$368)	\$3,986 (\$364)
d5. Respiratory distress syndrome [221]	410	0.04	0.00	0.00	15.0 (1.87)	9.6 (1.59)	\$27,104 (\$4,102)	\$19,683 (\$2,971)
P4. Cesarean section [134] Number of diagnoses with this procedure = 42	791,756	100.00	2.27	0.03	3.0 (0.00)	2.6 (0.02)	\$6,675 (\$0)	\$6,594 (\$116)
d1. Previous C-section [189]	186,965	23.61	0.54	0.00	2.9 (0.02)	2.3 (0.02)	\$6,219 (\$89)	\$5,828 (\$104)
d2. Fetal distress and abnormal forces of labor [190]	160,121	20.22	0.46	0.01	3.6 (0.03)	2.8 (0.02)	\$7,688 (\$117)	\$7,064 (\$126)
d3. Malposition, malpresentation [187]	126,358	15.96	0.36	0.01	3.2 (0.03)	2.5 (0.02)	\$6,702 (\$134)	\$6,096 (\$136)
d4. Fetopelvic disproportion, obstruction [188]	100,708	12.72	0.29	0.02	3.4 (0.03)	2.7 (0.03)	\$7,196 (\$126)	\$6,727 (\$147)
d5. Other complications of birth, puerperium affecting management of mother [195]	38,966	4.92	0.11	0.07	3.7 (0.05)	2.7 (0.02)	\$7,729 (\$154)	\$6,702 (\$134)

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P5. Episiotomy [133] Number of diagnoses with this procedure = 33	708,679	100.00	2.03	0.00	2.0 (0.00)	1.2 (0.02)	\$1,581 (\$0)	\$3,264 (\$66)
d1. Normal pregnancy and/or delivery [196]	235,895	33.29	0.68	0.00	1.6 (0.02)	1.1 (0.03)	\$3,305 (\$61)	\$3,057 (\$57)
d2. Umbilical cord complication [192]	90,913	12.83	0.26	0.00	1.7 (0.02)	1.1 (0.03)	\$3,485 (\$72)	\$3,195 (\$70)
d3. Other complications of birth, puerperium affecting management of mother [195]	59,548	8.40	0.17	0.00	1.8 (0.02)	1.3 (0.02)	\$3,744 (\$84)	\$3,362 (\$89)
d4. Fetal distress and abnormal forces of labor [190]	52,529	7.41	0.15	0.00	1.8 (0.03)	1.2 (0.03)	\$3,650 (\$126)	\$3,278 (\$129)
d5. Other complications of pregnancy [181]	47,671	6.73	0.14	0.00	1.8 (0.03)	1.3 (0.03)	\$3,624 (\$71)	\$3,228 (\$83)
P6. Diagnostic cardiac catheterization, coronary arteriography [47] Number of diagnoses with this procedure = 193	651,289	100.00	1.87	1.11	0.0 (0.00)	2.7 (0.05)	\$8,497 (\$0)	\$10,034 (\$184)
d1. Coronary atherosclerosis and other heart disease [101]	266,322	40.89	0.76	0.43	3.3 (0.04)	2.1 (0.05)	\$10,701 (\$225)	\$8,957 (\$182)
d2. Acute myocardial infarction [100]	132,030	20.27	0.38	2.70	5.4 (0.06)	4.2 (0.05)	\$16,174 (\$289)	\$13,256 (\$235)
d3. Nonspecific chest pain [102]	85,330	13.10	0.24	0.01	2.4 (0.03)	1.5 (0.03)	\$8,583 (\$192)	\$7,812 (\$175)
d4. Congestive heart failure, nonhypertensive [108]	43,234	6.64	0.12	2.24	6.7 (0.10)	5.0 (0.06)	\$17,393 (\$351)	\$14,242 (\$272)
d5. Cardiac dysrhythmias [106]	17,572	2.70	0.05	0.57	5.0 (0.09)	3.6 (0.07)	\$14,232 (\$316)	\$11,590 (\$218)

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P7. Upper gastrointestinal endoscopy, biopsy [70] Number of diagnoses with this procedure = 225	627,503	100.00	1.80	2.37	4.0 (0.00)	3.9 (0.02)	\$4,918 (\$0)	\$8,044 (\$85)
d1. Gastrointestinal hemorrhage [153]	152,464	24.30	0.44	1.85	4.5 (0.04)	3.1 (0.03)	\$9,015 (\$124)	\$6,893 (\$80)
d2. Gastritis and duodenitis [140]	79,409	12.65	0.23	0.76	4.2 (0.04)	2.9 (0.03)	\$8,053 (\$104)	\$6,450 (\$85)
d3. Esophageal disorders [138]	45,865	7.31	0.13	0.76	4.3 (0.05)	2.8 (0.03)	\$8,015 (\$123)	\$6,225 (\$86)
d4. Gastroduodenal ulcer (except hemorrhage) [139]	22,895	3.65	0.07	0.49	4.2 (0.06)	2.9 (0.04)	\$7,779 (\$122)	\$6,226 (\$101)
d5. Fluid and electrolyte disorders [55]	15,802	2.52	0.05	2.55	6.8 (0.11)	4.9 (0.09)	\$10,902 (\$221)	\$8,321 (\$177)
P8. Repair of current obstetric laceration [140] Number of diagnoses with this procedure = 23	573,118	100.00	1.64	0.00	1.0 (0.00)	1.1 (0.02)	\$1,661 (\$0)	\$3,120 (\$53)
d1. Trauma to perineum and vulva [193]	380,007	66.31	1.09	0.00	1.6 (0.02)	1.1 (0.02)	\$3,267 (\$49)	\$3,021 (\$52)
d2. Other complications of birth, puerperium affecting management of mother [195]	50,321	8.78	0.14	0.01	1.7 (0.02)	1.1 (0.03)	\$3,656 (\$73)	\$3,231 (\$60)
d3. Fetal distress and abnormal forces of labor [190]	25,694	4.48	0.07	0.00	1.7 (0.03)	1.1 (0.04)	\$3,336 (\$80)	\$2,968 (\$69)
d4. Polyhydramnios and other problems of amniotic cavity [191]	20,253	3.53	0.06	0.00	2.4 (0.06)	1.5 (0.02)	\$4,342 (\$121)	\$3,655 (\$111)
d5. Umbilical cord complication [192]	18,356	3.20	0.05	0.00	1.6 (0.02)	1.0 (0.03)	\$3,384 (\$69)	\$3,119 (\$79)

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P9. Hysterectomy, abdominal and vaginal [124] Number of diagnoses with this procedure = 137	564,316	100.00	1.62	0.09	6.0 (0.00)	2.4 (0.01)	\$12,685 (\$0)	\$7,909 (\$115)
d1. Benign neoplasm of uterus [46]	190,237	33.71	0.55	0.02	3.0 (0.02)	2.4 (0.02)	\$8,649 (\$121)	\$7,798 (\$126)
d2. Prolapse of female genital organs [170]	83,001	14.71	0.24	0.03	2.9 (0.02)	2.2 (0.02)	\$8,411 (\$112)	\$7,599 (\$111)
d3. Endometriosis [169]	69,815	12.37	0.20	0.01	2.8 (0.02)	2.2 (0.02)	\$8,350 (\$128)	\$7,503 (\$131)
d4. Menstrual disorders [171]	59,805	10.60	0.17	0.00	2.6 (0.02)	2.0 (0.02)	\$7,753 (\$110)	\$6,992 (\$111)
d5. Other female genital disorders [175]	38,692	6.86	0.11	0.06	2.9 (0.02)	2.2 (0.02)	\$8,517 (\$118)	\$7,681 (\$111)
P10. Percutaneous transluminal coronary angioplasty (PTCA) [45] Number of diagnoses with this procedure = 109	479,444	100.00	1.38	1.00	4.0 (0.00)	2.5 (0.06)	\$36,631 (\$0)	\$18,455 (\$531)
d1. Coronary atherosclerosis and other heart disease [101]	310,906	64.85	0.89	0.34	3.1 (0.05)	1.8 (0.05)	\$19,255 (\$636)	\$16,590 (\$548)
d2. Acute myocardial infarction [100]	137,326	28.64	0.39	2.29	5.1 (0.06)	3.9 (0.06)	\$25,642 (\$610)	\$22,540 (\$589)
d3. Complication of device, implant or graft [237]	23,185	4.84	0.07	0.72	4.0 (0.10)	2.5 (0.08)	\$23,775 (\$815)	\$19,868 (\$697)
d4. Congestive heart failure, nonhypertensive [108]	3,021	0.63	0.01	4.83	8.6 (0.25)	6.9 (0.25)	\$32,055 (\$983)	\$28,500 (\$1,219)
d5. Cardiac dysrhythmias [106]	783	0.16	0.00	2.13	6.8 (0.36)	5.4 (0.32)	\$30,265 (\$1,915)	\$25,548 (\$1,701)

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P11. Respiratory intubation and mechanical ventilation [216] Number of diagnoses with this procedure = 222	466,044	100.00	1.34	31.12	4.0 (0.00)	5.9 (0.12)	\$10,457 (\$0)	\$18,721 (\$365)
d1. Respiratory failure, insufficiency, arrest (adult) [131]	87,134	18.70	0.25	27.94	10.6 (0.43)	7.2 (0.09)	\$34,607 (\$1,195)	\$22,909 (\$377)
d2. Liveborn [218]	81,359	17.46	0.23	4.68	16.6 (0.85)	4.0 (0.83)	\$37,833 (\$2,620)	\$9,498 (\$1,613)
d3. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	43,925	9.43	0.13	40.43	12.7 (0.19)	9.9 (0.12)	\$43,639 (\$846)	\$32,237 (\$674)
d4. Congestive heart failure, nonhypertensive [108]	27,240	5.85	0.08	24.33	8.4 (0.16)	5.9 (0.10)	\$23,400 (\$529)	\$16,188 (\$318)
d5. Acute myocardial infarction [100]	26,071	5.59	0.07	55.35	6.2 (0.11)	3.8 (0.12)	\$21,388 (\$480)	\$15,118 (\$335)
P12. Cholecystectomy and common duct exploration [84] Number of diagnoses with this procedure = 175	408,094	100.00	1.17	0.87	1.0 (0.00)	2.7 (0.05)	\$5,689 (\$0)	\$10,719 (\$158)
d1. Biliary tract disease [149]	363,040	88.96	1.04	0.54	4.2 (0.04)	2.5 (0.05)	\$13,054 (\$185)	\$10,265 (\$152)
d2. Pancreatic disorders (not diabetes) [152]	18,687	4.58	0.05	0.94	8.3 (0.16)	5.8 (0.09)	\$22,620 (\$541)	\$16,665 (\$328)
d3. Septicemia (except in labor) [2]	4,294	1.05	0.01	7.76	12.9 (0.46)	9.8 (0.27)	\$37,343 (\$1,655)	\$28,073 (\$909)
d4. Complications of surgical procedures or medical care [238]	2,949	0.72	0.01	0.99	3.8 (0.27)	1.5 (0.11)	\$13,748 (\$1,015)	\$8,784 (\$530)
d5. Other aftercare [257]	1,916	0.47	0.01	0.00	1.2 (0.13)	0.5 (0.02)	\$6,489 (\$338)	\$6,562 (\$506)

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P13. Alcohol and drug rehabilitation/detoxification [219] Number of diagnoses with this procedure = 161	400,111	100.00	1.15	0.09	3.0 (0.00)	3.7 (0.13)	\$4,241 (\$0)	\$3,338 (\$155)
d1. Alcohol-related mental disorders [66]	195,485	48.86	0.56	0.02	6.3 (0.35)	3.6 (0.13)	\$4,524 (\$202)	\$3,301 (\$125)
d2. Substance-related mental disorders [67]	152,356	38.08	0.44	0.01	5.4 (0.25)	3.6 (0.20)	\$3,779 (\$194)	\$2,968 (\$169)
d3. Affective disorders [69]	16,600	4.15	0.05	0.00	7.4 (0.33)	5.5 (0.41)	\$7,113 (\$597)	\$5,534 (\$477)
d4. Other mental conditions [74]	4,629	1.16	0.01	0.00	5.1 (0.41)	3.3 (0.45)	\$4,940 (\$665)	\$3,604 (\$522)
d5. Schizophrenia and related disorders [70]	2,907	0.73	0.01	0.00	9.0 (0.53)	7.3 (0.58)	\$8,482 (\$887)	\$6,788 (\$802)
P14. Other therapeutic procedures [231] Number of diagnoses with this procedure = 247	386,717	100.00	1.11	2.45	5.0 (0.00)	3.4 (0.06)	\$11,081 (\$0)	\$5,850 (\$223)
d1. Liveborn [218]	55,259	14.29	0.16	0.06	8.2 (0.28)	4.6 (0.14)	\$11,577 (\$634)	\$5,379 (\$396)
d2. Acute myocardial infarction [100]	41,509	10.73	0.12	4.88	3.8 (0.07)	2.7 (0.08)	\$13,176 (\$243)	\$11,569 (\$230)
d3. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	29,218	7.56	0.08	4.21	6.2 (0.18)	4.4 (0.16)	\$9,188 (\$547)	\$6,643 (\$465)
d4. Hemolytic jaundice and perinatal jaundice [222]	21,012	5.43	0.06	0.00	2.1 (0.04)	1.4 (0.02)	\$2,464 (\$139)	\$1,732 (\$60)
d5. Early or threatened labor [184]	12,250	3.17	0.04	0.04	3.3 (0.25)	1.7 (0.13)	\$5,683 (\$707)	\$3,666 (\$413)

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P15. Forceps, vacuum, and breech delivery [135] Number of diagnoses with this procedure = 26	375,932	100.00	1.08	0.00	2.0 (0.00)	1.4 (0.01)	\$2,587 (\$0)	\$3,659 (\$84)
d1. Forceps delivery [194]	93,493	24.87	0.27	0.00	1.8 (0.02)	1.3 (0.02)	\$3,752 (\$79)	\$3,468 (\$68)
d2. Fetal distress and abnormal forces of labor [190]	78,801	20.96	0.23	0.01	1.9 (0.02)	1.3 (0.02)	\$3,955 (\$96)	\$3,557 (\$108)
d3. Other complications of birth, puerperium affecting management of mother [195]	42,105	11.20	0.12	0.00	1.9 (0.02)	1.3 (0.02)	\$4,070 (\$109)	\$3,687 (\$110)
d4. Trauma to perineum and vulva [193]	32,927	8.76	0.09	0.00	1.9 (0.02)	1.4 (0.02)	\$3,890 (\$77)	\$3,589 (\$85)
d5. Polyhydramnios and other problems of amniotic cavity [191]	18,842	5.01	0.05	0.00	2.4 (0.04)	1.6 (0.02)	\$4,940 (\$159)	\$4,317 (\$179)
P16. Coronary artery bypass graft (CABG) [44] Number of diagnoses with this procedure = 75	367,647	100.00	1.05	3.03	6.0 (0.00)	7.1 (0.08)	\$51,235 (\$0)	\$39,855 (\$1,066)
d1. Coronary atherosclerosis and other heart disease [101]	275,851	75.03	0.79	2.26	8.8 (0.13)	6.7 (0.06)	\$44,304 (\$1,221)	\$38,109 (\$1,067)
d2. Acute myocardial infarction [100]	73,157	19.90	0.21	4.76	11.3 (0.20)	8.8 (0.13)	\$53,907 (\$1,328)	\$45,180 (\$1,244)
d3. Complication of device, implant or graft [237]	12,130	3.30	0.03	6.94	10.3 (0.27)	7.7 (0.16)	\$55,247 (\$1,967)	\$45,406 (\$1,571)
d4. Congestive heart failure, nonhypertensive [108]	2,911	0.79	0.01	8.02	16.1 (0.54)	13.2 (0.34)	\$66,747 (\$2,839)	\$54,246 (\$2,077)
d5. Heart valve disorders [96]	689	0.19	0.00	9.03	14.0 (1.11)	8.3 (0.70)	\$64,343 (\$4,815)	\$50,168 (\$3,937)

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P17. Laminectomy, excision intervertebral disc [3] Number of diagnoses with this procedure = 120	340,477	100.00	0.98	0.16	3.0 (0.00)	1.7 (0.04)	\$7,641 (\$0)	\$8,692 (\$215)
d1. Spondylosis, intervertebral disc disorders, other back problems [205]	317,924	93.38	0.91	0.10	2.9 (0.05)	1.6 (0.04)	\$10,483 (\$238)	\$8,408 (\$209)
d2. Other acquired deformities [209]	4,569	1.34	0.01	0.33	5.0 (0.14)	3.9 (0.14)	\$21,293 (\$988)	\$17,315 (\$992)
d3. Complications of surgical procedures or medical care [238]	1,820	0.53	0.01	0.00	8.3 (0.47)	6.0 (0.37)	\$20,270 (\$1,569)	\$12,678 (\$757)
d4. Complication of device, implant or graft [237]	1,800	0.53	0.01	0.27	4.8 (0.25)	3.3 (0.22)	\$21,318 (\$1,196)	\$15,990 (\$1,052)
d5. Other congenital anomalies [217]	1,459	0.43	0.00	0.00	4.6 (0.20)	3.6 (0.13)	\$19,748 (\$909)	\$17,104 (\$999)
P18. Arthroplasty knee [152] Number of diagnoses with this procedure = 81	315,940	100.00	0.91	0.16	3.0 (0.00)	3.8 (0.04)	\$18,102 (\$0)	\$18,077 (\$254)
d1. Osteoarthritis [203]	244,646	77.43	0.70	0.17	5.0 (0.04)	4.0 (0.04)	\$20,650 (\$238)	\$18,968 (\$262)
d2. Complication of device, implant or graft [237]	21,388	6.77	0.06	0.15	5.0 (0.08)	3.9 (0.05)	\$20,520 (\$423)	\$18,147 (\$411)
d3. Joint disorders and dislocations, trauma-related [225]	20,661	6.54	0.06	0.05	2.0 (0.05)	0.9 (0.04)	\$10,461 (\$288)	\$8,753 (\$274)
d4. Sprains and strains [232]	12,613	3.99	0.04	0.04	1.6 (0.04)	0.8 (0.03)	\$8,873 (\$233)	\$8,029 (\$274)
d5. Rheumatoid arthritis and related disease [202]	6,359	2.01	0.02	0.38	5.1 (0.09)	4.0 (0.08)	\$21,688 (\$455)	\$19,581 (\$415)

Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P19. Prophylactic vaccinations and inoculations [228] Number of diagnoses with this procedure = 102	308,957	100.00	0.89	0.00	1.0 (0.00)	1.3 (0.07)	\$980 (\$0)	\$828 (\$32)
d1. Liveborn [218]	305,789	98.97	0.88	0.00	2.1 (0.06)	1.3 (0.07)	\$1,480 (\$78)	\$822 (\$30)
d2. Other perinatal conditions [224]	613	0.20	0.00	0.00	6.6 (0.66)	4.5 (0.43)	\$10,059 (\$1,589)	\$7,078 (\$1,559)
d3. Short gestation, low birth weight, and fetal growth retardation [219]	461	0.15	0.00	0.00	16.6 (2.21)	10.2 (2.06)	\$19,885 (\$6,407)	\$8,296 (\$1,955)
d4. Substance-related mental disorders [67]	131	0.04	0.00	*	* (*)	* (*)	* (*)	* (*)
d5. Asthma [128]	123	0.04	0.00	*	* (*)	* (*)	* (*)	* (*)
P20. Computerized axial tomography (CT) scan head [177] Number of diagnoses with this procedure = 228	295,519	100.00	0.85	4.21	1.0 (0.00)	3.4 (0.10)	\$4,521 (\$0)	\$6,143 (\$195)
d1. Acute cerebrovascular disease [109]	75,614	25.59	0.22	8.95	6.5 (0.19)	4.3 (0.12)	\$9,780 (\$309)	\$7,108 (\$208)
d2. Transient cerebral ischemia [112]	23,724	8.03	0.07	0.13	3.8 (0.12)	2.5 (0.09)	\$5,578 (\$150)	\$4,610 (\$153)
d3. Intracranial injury [233]	20,138	6.81	0.06	2.42	3.1 (0.17)	1.2 (0.15)	\$8,694 (\$1,048)	\$4,966 (\$583)
d4. Epilepsy, convulsions [83]	17,715	5.99	0.05	0.72	4.0 (0.13)	2.3 (0.08)	\$6,494 (\$237)	\$4,702 (\$171)
d5. Syncope [245]	11,184	3.78	0.03	0.16	3.8 (0.18)	2.4 (0.13)	\$5,962 (\$252)	\$4,869 (\$232)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P21. Hip replacement, total and partial [153] Number of diagnoses with this procedure = 118	291,445	100.00	0.84	1.45	6.0 (0.00)	4.6 (0.04)	\$12,081 (\$0)	\$18,951 (\$242)
d1. Osteoarthritis [203]	116,889	40.11	0.34	0.15	5.0 (0.05)	4.0 (0.05)	\$20,834 (\$278)	\$19,354 (\$291)
d2. Fracture of neck of femur (hip) [226]	109,271	37.49	0.31	2.95	7.3 (0.07)	5.6 (0.04)	\$19,834 (\$227)	\$17,019 (\$213)
d3. Complication of device, implant or graft [237]	30,428	10.44	0.09	0.81	6.2 (0.09)	4.6 (0.07)	\$25,278 (\$557)	\$21,846 (\$414)
d4. Other bone disease and musculoskeletal deformities [212]	18,053	6.19	0.05	0.59	5.5 (0.08)	4.2 (0.07)	\$22,473 (\$361)	\$20,480 (\$292)
d5. Pathological fracture [207]	4,594	1.58	0.01	3.67	8.5 (0.29)	6.2 (0.12)	\$24,154 (\$717)	\$20,205 (\$492)
P22. Treatment, fracture or dislocation of hip and femur [146] Number of diagnoses with this procedure = 138	286,184	100.00	0.82	2.13	3.0 (0.00)	5.0 (0.05)	\$11,934 (\$0)	\$13,172 (\$147)
d1. Fracture of neck of femur (hip) [226]	199,175	69.60	0.57	2.32	6.8 (0.07)	5.1 (0.05)	\$15,796 (\$210)	\$13,099 (\$150)
d2. Fracture of lower limb [230]	40,388	14.11	0.12	1.10	7.6 (0.12)	5.3 (0.07)	\$22,226 (\$705)	\$16,166 (\$263)
d3. Complication of device, implant or graft [237]	17,659	6.17	0.05	0.32	3.9 (0.10)	2.0 (0.07)	\$9,051 (\$238)	\$5,817 (\$137)
d4. Pathological fracture [207]	7,385	2.58	0.02	4.16	7.9 (0.18)	6.0 (0.16)	\$18,838 (\$464)	\$15,275 (\$414)
d5. Other bone disease and musculoskeletal deformities [212]	5,037	1.76	0.01	0.54	3.9 (0.14)	2.5 (0.11)	\$12,542 (\$390)	\$10,040 (\$341)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P23. Cancer chemotherapy [224] Number of diagnoses with this procedure = 174	255,054	100.00	0.73	1.32	2.0 (0.00)	2.7 (0.09)	\$11,464 (\$0)	\$6,968 (\$228)
d1. Maintenance chemotherapy, radiotherapy [45]	214,781	84.21	0.62	0.46	3.5 (0.11)	2.2 (0.09)	\$9,595 (\$660)	\$6,484 (\$221)
d2. Secondary malignancies [42]	7,756	3.04	0.02	7.12	7.5 (0.33)	4.8 (0.41)	\$17,230 (\$1,065)	\$11,574 (\$1,075)
d3. Leukemias [39]	4,295	1.68	0.01	13.13	20.0 (0.88)	16.7 (2.09)	\$65,000 (\$8,718)	\$40,189 (\$5,219)
d4. Non-Hodgkin's lymphoma [38]	3,727	1.46	0.01	6.45	10.3 (0.49)	6.6 (0.37)	\$25,908 (\$1,989)	\$15,350 (\$698)
d5. Cancer of bronchus, lung [19]	3,143	1.23	0.01	7.41	6.8 (0.39)	4.1 (0.28)	\$15,418 (\$909)	\$11,139 (\$1,014)
P24. Colorectal resection [78] Number of diagnoses with this procedure = 162	253,434	100.00	0.73	4.48	14.0 (0.00)	7.9 (0.04)	\$25,250 (\$0)	\$19,724 (\$264)
d1. Cancer of colon [14]	93,978	37.08	0.27	2.96	10.0 (0.07)	7.7 (0.05)	\$23,859 (\$308)	\$18,411 (\$256)
d2. Diverticulosis and diverticulitis [146]	48,789	19.25	0.14	3.22	10.7 (0.10)	8.0 (0.06)	\$27,687 (\$434)	\$20,025 (\$300)
d3. Cancer of rectum and anus [15]	29,660	11.70	0.09	2.19	9.9 (0.11)	7.8 (0.06)	\$24,637 (\$455)	\$19,626 (\$348)
d4. Other gastrointestinal disorders [155]	12,106	4.78	0.03	8.09	11.1 (0.24)	7.9 (0.13)	\$31,054 (\$808)	\$21,554 (\$451)
d5. Other and unspecified benign neoplasm [47]	10,879	4.29	0.03	0.92	7.9 (0.14)	6.3 (0.07)	\$18,695 (\$553)	\$14,623 (\$306)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P25. Diagnostic spinal tap [4] Number of diagnoses with this procedure = 217	251,364	100.00	0.72	2.27	0.0 (0.00)	3.4 (0.05)	\$2,729 (\$0)	\$6,660 (\$123)
d1. Liveborn [218]	31,399	12.49	0.09	0.13	9.3 (0.25)	6.3 (0.14)	\$14,494 (\$695)	\$8,679 (\$414)
d2. Meningitis (except that caused by tuberculosis or sexually transmitted disease) [76]	26,014	10.35	0.07	1.28	4.9 (0.08)	2.9 (0.04)	\$9,495 (\$228)	\$6,153 (\$133)
d3. Viral infection [7]	16,806	6.69	0.05	0.03	3.0 (0.04)	2.2 (0.04)	\$4,951 (\$128)	\$3,886 (\$113)
d4. Epilepsy, convulsions [83]	14,249	5.67	0.04	0.89	3.8 (0.10)	2.1 (0.06)	\$8,501 (\$295)	\$5,624 (\$149)
d5. Septicemia (except in labor) [2]	13,569	5.40	0.04	5.90	5.9 (0.14)	3.7 (0.10)	\$10,771 (\$369)	\$6,782 (\$269)
P26. Colonoscopy and biopsy [76] Number of diagnoses with this procedure = 215	242,685	100.00	0.70	1.50	6.0 (0.00)	4.2 (0.03)	\$8,137 (\$0)	\$7,732 (\$86)
d1. Diverticulosis and diverticulitis [146]	42,649	17.57	0.12	0.38	4.6 (0.05)	3.3 (0.04)	\$8,175 (\$121)	\$6,421 (\$96)
d2. Gastrointestinal hemorrhage [153]	20,330	8.38	0.06	1.19	4.9 (0.08)	3.4 (0.06)	\$8,794 (\$166)	\$6,702 (\$127)
d3. Regional enteritis and ulcerative colitis [144]	18,356	7.56	0.05	0.34	6.5 (0.12)	4.5 (0.08)	\$10,628 (\$239)	\$7,687 (\$156)
d4. Other gastrointestinal disorders [155]	14,122	5.82	0.04	0.84	5.2 (0.10)	3.6 (0.07)	\$8,649 (\$219)	\$6,534 (\$142)
d5. Peripheral and visceral atherosclerosis [114]	12,519	5.16	0.04	2.23	5.5 (0.10)	3.8 (0.07)	\$10,149 (\$290)	\$7,327 (\$167)

Table 1
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Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P27. Diagnostic ultrasound of heart (echocardiogram) [193] Number of diagnoses with this procedure = 218	234,607	100.00	0.67	2.02	4.0 (0.00)	3.6 (0.07)	\$8,383 (\$0)	\$7,597 (\$198)
d1. Congestive heart failure, nonhypertensive [108]	41,782	17.81	0.12	2.11	5.6 (0.14)	3.9 (0.11)	\$10,064 (\$292)	\$7,831 (\$241)
d2. Cardiac dysrhythmias [106]	21,742	9.27	0.06	0.46	3.8 (0.11)	2.5 (0.08)	\$7,278 (\$224)	\$5,581 (\$155)
d3. Acute myocardial infarction [100]	19,167	8.17	0.06	5.47	5.6 (0.12)	4.4 (0.09)	\$12,171 (\$438)	\$10,248 (\$416)
d4. Coronary atherosclerosis and other heart disease [101]	17,769	7.57	0.05	0.24	3.5 (0.10)	2.4 (0.09)	\$7,055 (\$227)	\$5,957 (\$241)
d5. Acute cerebrovascular disease [109]	15,901	6.78	0.05	1.99	6.3 (0.12)	4.8 (0.10)	\$11,929 (\$291)	\$9,748 (\$279)
P28. Appendectomy [80] Number of diagnoses with this procedure = 131	229,697	100.00	0.66	0.17	2.0 (0.00)	2.0 (0.03)	\$3,798 (\$0)	\$7,370 (\$104)
d1. Appendicitis and other appendiceal conditions [142]	206,465	89.89	0.59	0.13	3.5 (0.03)	2.0 (0.03)	\$9,506 (\$136)	\$7,405 (\$105)
d2. Abdominal pain [251]	8,109	3.53	0.02	0.00	2.6 (0.06)	1.7 (0.04)	\$7,542 (\$205)	\$6,303 (\$189)
d3. Lymphadenitis [247]	3,577	1.56	0.01	0.00	2.5 (0.06)	1.7 (0.05)	\$6,309 (\$167)	\$5,607 (\$179)
d4. Other complications of pregnancy [181]	1,466	0.64	0.00	0.00	3.8 (0.20)	2.6 (0.13)	\$9,725 (\$538)	\$7,573 (\$322)
d5. Ovarian cyst [172]	1,021	0.44	0.00	0.00	2.1 (0.08)	1.5 (0.10)	\$7,183 (\$282)	\$6,449 (\$286)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P29. Debridement of wound, infection or burn [169] Number of diagnoses with this procedure = 203	219,091	100.00	0.63	3.22	6.0 (0.00)	6.6 (0.08)	\$5,036 (\$0)	\$12,195 (\$192)
d1. Chronic ulcer of skin [199]	27,667	12.63	0.08	3.84	12.2 (0.34)	7.7 (0.15)	\$18,713 (\$577)	\$11,994 (\$242)
d2. Skin and subcutaneous tissue infections [197]	26,604	12.14	0.08	0.92	8.5 (0.14)	5.9 (0.11)	\$14,383 (\$343)	\$9,654 (\$193)
d3. Complications of surgical procedures or medical care [238]	26,524	12.11	0.08	1.51	10.2 (0.18)	6.8 (0.12)	\$20,499 (\$561)	\$12,597 (\$290)
d4. Diabetes mellitus with complications [50]	20,508	9.36	0.06	1.11	10.3 (0.25)	6.9 (0.14)	\$16,790 (\$505)	\$11,046 (\$279)
d5. Open wounds of extremities [236]	15,480	7.07	0.04	0.21	4.3 (0.11)	2.1 (0.07)	\$11,216 (\$403)	\$7,223 (\$154)
P30. Blood transfusion [222] Number of diagnoses with this procedure = 240	217,806	100.00	0.62	7.46	2.0 (0.00)	4.1 (0.06)	\$5,873 (\$0)	\$7,333 (\$126)
d1. Deficiency and other anemia [59]	30,157	13.85	0.09	1.48	3.4 (0.09)	1.8 (0.06)	\$6,118 (\$191)	\$3,932 (\$93)
d2. Gastrointestinal hemorrhage [153]	19,295	8.86	0.06	5.75	4.4 (0.09)	3.0 (0.07)	\$7,198 (\$169)	\$5,500 (\$121)
d3. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	14,341	6.58	0.04	9.88	8.2 (0.15)	6.3 (0.13)	\$13,804 (\$342)	\$10,393 (\$248)
d4. Congestive heart failure, nonhypertensive [108]	11,227	5.15	0.03	6.27	7.1 (0.20)	5.0 (0.12)	\$11,194 (\$316)	\$8,569 (\$239)
d5. Septicemia (except in labor) [2]	10,390	4.77	0.03	15.51	8.6 (0.19)	6.6 (0.15)	\$16,621 (\$610)	\$12,838 (\$427)

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Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P31. Other vascular catheterization, not heart [54] Number of diagnoses with this procedure = 230	211,378	100.00	0.61	12.84	4.0 (0.00)	6.8 (0.09)	\$10,873 (\$0)	\$14,410 (\$300)
d1. Liveborn [218]	26,001	12.30	0.07	2.98	16.5 (0.92)	7.1 (0.43)	\$39,894 (\$3,572)	\$15,737 (\$1,410)
d2. Septicemia (except in labor) [2]	15,505	7.34	0.04	23.75	10.5 (0.20)	8.0 (0.20)	\$23,259 (\$561)	\$17,024 (\$414)
d3. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	14,000	6.62	0.04	17.51	10.7 (0.22)	8.2 (0.15)	\$22,717 (\$723)	\$16,478 (\$461)
d4. Congestive heart failure, nonhypertensive [108]	7,651	3.62	0.02	23.27	10.0 (0.25)	7.5 (0.16)	\$20,184 (\$567)	\$15,059 (\$446)
d5. Pancreatic disorders (not diabetes) [152]	5,960	2.82	0.02	5.19	12.3 (0.34)	9.8 (0.46)	\$25,365 (\$1,013)	\$18,132 (\$760)
P32. Insertion, revision, replacement, removal of cardiac pacemaker or cardioverter/defibrillator [48] Number of diagnoses with this procedure = 153	195,402	100.00	0.56	2.87	2.0 (0.00)	3.9 (0.06)	\$4,427 (\$0)	\$20,878 (\$300)
d1. Cardiac dysrhythmias [106]	81,634	41.78	0.23	0.84	5.6 (0.12)	3.9 (0.11)	\$26,934 (\$533)	\$21,070 (\$381)
d2. Conduction disorders [105]	44,330	22.69	0.13	1.35	4.2 (0.06)	2.7 (0.04)	\$21,045 (\$272)	\$18,875 (\$214)
d3. Complication of device, implant or graft [237]	22,609	11.57	0.06	0.43	3.8 (0.11)	1.8 (0.06)	\$19,139 (\$541)	\$14,465 (\$316)
d4. Congestive heart failure, nonhypertensive [108]	12,335	6.31	0.04	6.60	9.8 (0.19)	7.4 (0.15)	\$33,081 (\$662)	\$26,634 (\$464)
d5. Acute myocardial infarction [100]	8,869	4.54	0.03	21.18	9.1 (0.27)	7.0 (0.22)	\$37,591 (\$1,520)	\$27,597 (\$1,060)

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	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P33. Other OR procedures on vessels other than head and neck [61] Number of diagnoses with this procedure = 215	193,127	100.00	0.55	5.12	4.0 (0.00)	4.5 (0.14)	\$14,171 (\$0)	\$17,253 (\$320)
d1. Complication of device, implant or graft [237]	50,098	25.94	0.14	1.73	5.4 (0.11)	3.1 (0.08)	\$19,323 (\$552)	\$13,765 (\$456)
d2. Peripheral and visceral atherosclerosis [114]	21,206	10.98	0.06	1.70	3.8 (0.14)	1.7 (0.10)	\$17,312 (\$612)	\$13,091 (\$666)
d3. Aortic, peripheral, and visceral artery aneurysms [115]	15,219	7.88	0.04	10.87	8.4 (0.25)	5.8 (0.19)	\$37,460 (\$1,183)	\$25,481 (\$675)
d4. Phlebitis, thrombophlebitis and thromboembolism [118]	12,134	6.28	0.03	2.91	8.1 (0.16)	6.1 (0.12)	\$19,540 (\$479)	\$14,108 (\$323)
d5. Aortic and peripheral arterial embolism or thrombosis [116]	9,884	5.12	0.03	4.22	6.1 (0.15)	4.1 (0.11)	\$22,150 (\$642)	\$16,106 (\$529)
P34. Treatment, fracture or dislocation of lower extremity (other than hip or femur) [147] Number of diagnoses with this procedure = 117	183,730	100.00	0.53	0.21	2.0 (0.00)	2.4 (0.03)	\$8,136 (\$0)	\$8,457 (\$126)
d1. Fracture of lower limb [230]	163,960	89.24	0.47	0.14	3.8 (0.06)	2.4 (0.03)	\$11,265 (\$302)	\$8,334 (\$125)
d2. Other bone disease and musculoskeletal deformities [212]	4,672	2.54	0.01	0.00	3.0 (0.09)	2.0 (0.07)	\$10,955 (\$369)	\$9,341 (\$216)
d3. Complication of device, implant or graft [237]	3,663	1.99	0.01	0.11	4.7 (0.25)	2.4 (0.14)	\$11,610 (\$742)	\$8,094 (\$336)
d4. Joint disorders and dislocations, trauma-related [225]	1,730	0.94	0.00	0.00	2.8 (0.22)	1.4 (0.12)	\$8,210 (\$485)	\$6,151 (\$327)
d5. Other fractures [231]	1,679	0.91	0.00	0.30	6.5 (0.73)	2.8 (0.50)	\$20,874 (\$2,601)	\$10,054 (\$978)

Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P35. Incision of pleura, thoracentesis, chest drainage [39] Number of diagnoses with this procedure = 194	172,837	100.00	0.50	8.23	7.0 (0.00)	5.8 (0.05)	\$14,052 (\$0)	\$10,608 (\$149)
d1. Pleurisy, pneumothorax, pulmonary collapse [130]	48,205	27.89	0.14	3.52	6.8 (0.07)	4.7 (0.06)	\$11,345 (\$190)	\$7,724 (\$119)
d2. Secondary malignancies [42]	20,731	11.99	0.06	13.85	7.7 (0.12)	5.6 (0.11)	\$13,358 (\$305)	\$9,513 (\$226)
d3. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	18,147	10.50	0.05	8.32	10.8 (0.15)	8.7 (0.16)	\$20,588 (\$490)	\$15,735 (\$297)
d4. Crushing injury or internal injury [234]	16,867	9.76	0.05	1.81	5.5 (0.09)	3.9 (0.08)	\$12,774 (\$579)	\$8,467 (\$250)
d5. Congestive heart failure, nonhypertensive [108]	16,502	9.55	0.05	8.03	8.9 (0.17)	6.6 (0.12)	\$15,135 (\$320)	\$11,568 (\$232)
P36. Diagnostic bronchoscopy and biopsy of bronchus [37] Number of diagnoses with this procedure = 212	172,641	100.00	0.50	6.83	3.0 (0.00)	7.3 (0.05)	\$5,236 (\$0)	\$15,214 (\$214)
d1. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	43,983	25.48	0.13	5.35	10.5 (0.10)	8.3 (0.08)	\$22,423 (\$447)	\$16,778 (\$263)
d2. Cancer of bronchus, lung [19]	36,846	21.34	0.11	6.86	8.5 (0.11)	6.6 (0.08)	\$17,385 (\$269)	\$13,817 (\$234)
d3. HIV infection [5]	10,514	6.09	0.03	9.05	12.4 (0.35)	9.1 (0.27)	\$29,503 (\$1,219)	\$20,547 (\$972)
d4. Other lower respiratory disease [133]	10,505	6.08	0.03	3.97	7.1 (0.24)	4.8 (0.15)	\$16,241 (\$673)	\$11,163 (\$286)
d5. Chronic obstructive pulmonary disease and bronchiectasis [127]	10,502	6.08	0.03	3.41	8.3 (0.18)	6.4 (0.13)	\$17,085 (\$676)	\$12,195 (\$334)

Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P37. Other respiratory therapy [217] Number of diagnoses with this procedure = 222	171,407	100.00	0.49	3.27	7.0 (0.00)	2.8 (0.09)	\$11,362 (\$0)	\$4,743 (\$238)
d1. Asthma [128]	33,794	19.72	0.10	0.07	3.2 (0.08)	2.1 (0.07)	\$4,972 (\$221)	\$3,760 (\$171)
d2. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	28,152	16.42	0.08	4.08	5.3 (0.16)	3.8 (0.12)	\$8,534 (\$353)	\$6,418 (\$285)
d3. Liveborn [218]	25,114	14.65	0.07	0.24	3.3 (0.33)	1.5 (0.19)	\$4,464 (\$610)	\$1,306 (\$162)
d4. Chronic obstructive pulmonary disease and bronchiectasis [127]	17,049	9.95	0.05	1.61	5.7 (0.22)	3.8 (0.15)	\$8,465 (\$390)	\$6,340 (\$263)
d5. Congestive heart failure, nonhypertensive [108]	10,510	6.13	0.03	4.55	5.3 (0.23)	3.7 (0.21)	\$7,958 (\$391)	\$6,046 (\$218)
P38. Physical therapy exercises, manipulation, and other procedures[213] Number of diagnoses with this procedure = 205	159,570	100.00	0.46	1.33	6.0 (0.00)	8.4 (0.55)	\$6,320 (\$0)	\$9,439 (\$585)
d1. Rehabilitation care, fitting of prostheses, adjustment of devices[254]	88,297	55.33	0.25	1.05	15.0 (0.66)	12.1 (0.66)	\$18,146 (\$1,355)	\$13,037 (\$1,448)
d2. Other aftercare [257]	7,038	4.41	0.02	2.60	10.7 (1.12)	7.6 (0.89)	\$9,530 (\$1,226)	\$6,469 (\$980)
d3. Acute cerebrovascular disease [109]	5,911	3.70	0.02	2.16	8.3 (0.52)	5.4 (0.36)	\$9,966 (\$572)	\$7,224 (\$481)
d4. Other fractures [231]	3,969	2.49	0.01	0.70	7.0 (0.48)	4.4 (0.51)	\$7,184 (\$485)	\$5,027 (\$301)
d5. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	3,579	2.24	0.01	3.59	8.0 (0.73)	5.6 (0.43)	\$11,646 (\$587)	\$9,113 (\$552)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P39. Transurethral resection of prostate (TURP) [113] Number of diagnoses with this procedure = 141	155,854	100.00	0.45	0.30	2.0 (0.00)	2.0 (0.03)	\$4,653 (\$0)	\$6,239 (\$100)
d1. Hyperplasia of prostate [164]	105,514	67.70	0.30	0.17	2.8 (0.03)	1.8 (0.02)	\$6,830 (\$102)	\$5,811 (\$97)
d2. Cancer of prostate [29]	22,572	14.48	0.06	0.24	3.6 (0.08)	2.1 (0.05)	\$7,894 (\$157)	\$6,297 (\$120)
d3. Other diseases of bladder and urethra [162]	4,264	2.74	0.01	0.49	3.5 (0.42)	1.8 (0.09)	\$7,399 (\$346)	\$5,793 (\$143)
d4. Genitourinary symptoms and ill-defined conditions [163]	3,122	2.00	0.01	1.10	4.6 (0.27)	2.6 (0.17)	\$9,236 (\$408)	\$6,722 (\$232)
d5. Cancer of bladder [32]	2,124	1.36	0.01	0.00	3.1 (0.25)	1.8 (0.08)	\$8,410 (\$522)	\$6,694 (\$213)
P40. Hemodialysis [58] Number of diagnoses with this procedure = 213	152,794	100.00	0.44	4.65	3.0 (0.00)	3.4 (0.06)	\$5,015 (\$0)	\$7,793 (\$145)
d1. Hypertension with complications and secondary hypertension [99]	22,200	14.53	0.06	2.91	4.5 (0.12)	2.6 (0.08)	\$9,570 (\$256)	\$6,908 (\$201)
d2. Congestive heart failure, nonhypertensive [108]	16,009	10.48	0.05	3.78	4.2 (0.12)	2.5 (0.07)	\$9,623 (\$249)	\$7,141 (\$152)
d3. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	9,092	5.95	0.03	6.33	6.3 (0.13)	4.6 (0.10)	\$12,592 (\$317)	\$9,664 (\$246)
d4. Septicemia (except in labor) [2]	8,616	5.64	0.02	13.29	7.0 (0.15)	5.2 (0.12)	\$15,287 (\$595)	\$10,731 (\$358)
d5. Diabetes mellitus with complications [50]	7,914	5.18	0.02	2.22	5.3 (0.19)	3.3 (0.12)	\$9,924 (\$329)	\$6,860 (\$236)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P41. Endarterectomy, vessel of head and neck [51] Number of diagnoses with this procedure = 92	151,263	100.00	0.43	0.63	3.0 (0.00)	1.9 (0.03)	\$14,542 (\$0)	\$11,079 (\$200)
d1. Occlusion or stenosis of precerebral arteries [110]	137,048	90.60	0.39	0.43	3.2 (0.05)	1.8 (0.03)	\$12,594 (\$220)	\$10,639 (\$192)
d2. Acute cerebrovascular disease [109]	8,111	5.36	0.02	3.18	7.8 (0.29)	5.7 (0.31)	\$23,001 (\$851)	\$18,184 (\$736)
d3. Transient cerebral ischemia [112]	1,537	1.02	0.00	0.91	7.3 (0.26)	6.2 (0.28)	\$21,271 (\$955)	\$18,585 (\$860)
d4. Coronary atherosclerosis and other heart disease [101]	974	0.64	0.00	1.10	7.3 (0.36)	5.9 (0.46)	\$33,334 (\$1,905)	\$29,652 (\$1,628)
d5. Other circulatory disease [117]	694	0.46	0.00	0.69	4.3 (0.47)	2.2 (0.23)	\$16,970 (\$1,545)	\$12,590 (\$1,112)
P42. Psychological and psychiatric evaluation and therapy [218] Number of diagnoses with this procedure = 112	137,802	100.00	0.40	0.20	15.0 (0.00)	9.2 (0.54)	\$15,591 (\$0)	\$8,290 (\$522)
d1. Affective disorders [69]	71,162	51.64	0.20	0.23	14.3 (0.50)	10.2 (0.58)	\$13,129 (\$651)	\$9,269 (\$582)
d2. Schizophrenia and related disorders [70]	29,354	21.30	0.08	0.12	16.9 (0.85)	12.5 (0.79)	\$14,177 (\$980)	\$9,989 (\$644)
d3. Other mental conditions [74]	10,850	7.87	0.03	0.00	7.3 (0.55)	4.1 (0.42)	\$5,903 (\$489)	\$3,800 (\$365)
d4. Other psychoses [71]	5,735	4.16	0.02	0.09	11.7 (0.70)	8.1 (0.59)	\$10,201 (\$615)	\$7,260 (\$491)
d5. Substance-related mental disorders [67]	5,366	3.89	0.02	0.00	9.4 (1.45)	5.5 (1.01)	\$8,936 (\$1,320)	\$5,959 (\$1,098)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P43. Other non-OR therapeutic procedures on skin and breast [174] Number of diagnoses with this procedure = 229	123,827	100.00	0.36	4.03	8.0 (0.00)	5.9 (0.10)	\$10,878 (\$0)	\$12,059 (\$204)
d1. Complication of device, implant or graft [237]	13,468	10.88	0.04	1.64	7.3 (0.20)	5.0 (0.15)	\$17,152 (\$590)	\$11,542 (\$368)
d2. Skin and subcutaneous tissue infections [197]	9,724	7.85	0.03	0.51	5.7 (0.15)	3.8 (0.10)	\$9,160 (\$266)	\$6,275 (\$162)
d3. Maintenance chemotherapy, radiotherapy [45]	7,983	6.45	0.02	1.57	5.6 (0.23)	3.5 (0.11)	\$17,161 (\$755)	\$11,997 (\$439)
d4. Septicemia (except in labor) [2]	5,769	4.66	0.02	7.49	12.0 (0.40)	8.8 (0.28)	\$25,885 (\$925)	\$18,865 (\$521)
d5. Liveborn [218]	4,615	3.73	0.01	0.41	5.7 (0.96)	1.5 (0.06)	\$10,908 (\$2,732)	\$988 (\$31)
P44. Amputation of lower extremity [157] Number of diagnoses with this procedure = 139	109,953	100.00	0.32	4.75	13.0 (0.00)	7.9 (0.13)	\$38,895 (\$0)	\$14,609 (\$235)
d1. Diabetes mellitus with complications [50]	38,736	35.23	0.11	2.45	11.4 (0.22)	7.9 (0.17)	\$21,265 (\$458)	\$14,441 (\$302)
d2. Gangrene [248]	33,004	30.02	0.09	5.93	11.0 (0.18)	7.5 (0.12)	\$21,114 (\$457)	\$13,628 (\$262)
d3. Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease) [201]	6,417	5.84	0.02	1.10	9.0 (0.37)	6.1 (0.17)	\$15,614 (\$607)	\$11,107 (\$330)
d4. Peripheral and visceral atherosclerosis [114]	4,924	4.48	0.01	4.34	10.7 (0.37)	7.3 (0.27)	\$21,621 (\$905)	\$13,521 (\$551)
d5. Complications of surgical procedures or medical care [238]	4,517	4.11	0.01	2.64	11.1 (0.45)	7.0 (0.24)	\$20,959 (\$981)	\$14,166 (\$489)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P45. Electrographic cardiac monitoring [203] Number of diagnoses with this procedure = 202	108,234	100.00	0.31	2.35	1.0 (0.00)	1.9 (0.08)	\$3,341 (\$0)	\$4,442 (\$259)
d1. Coronary atherosclerosis and other heart disease [101]	14,998	13.86	0.04	0.28	2.5 (0.10)	1.6 (0.08)	\$4,474 (\$216)	\$3,777 (\$247)
d2. Congestive heart failure, nonhypertensive [108]	13,667	12.63	0.04	3.03	4.5 (0.21)	3.1 (0.16)	\$7,270 (\$299)	\$5,629 (\$333)
d3. Nonspecific chest pain [102]	11,724	10.83	0.03	0.04	1.6 (0.07)	0.8 (0.06)	\$3,445 (\$187)	\$2,942 (\$225)
d4. Cardiac dysrhythmias [106]	11,182	10.33	0.03	0.28	2.8 (0.13)	1.7 (0.08)	\$4,626 (\$220)	\$3,686 (\$210)
d5. Acute myocardial infarction [100]	5,372	4.96	0.02	7.77	4.5 (0.20)	3.3 (0.20)	\$8,662 (\$425)	\$7,020 (\$449)
P46. Peripheral vascular bypass [55] Number of diagnoses with this procedure = 102	106,286	100.00	0.30	2.89	6.0 (0.00)	5.9 (0.09)	\$14,050 (\$0)	\$19,757 (\$325)
d1. Peripheral and visceral atherosclerosis [114]	47,708	44.89	0.14	1.72	6.9 (0.12)	4.9 (0.09)	\$22,380 (\$447)	\$17,546 (\$293)
d2. Aortic and peripheral arterial embolism or thrombosis [116]	19,785	18.62	0.06	2.98	7.8 (0.17)	5.6 (0.13)	\$24,187 (\$626)	\$18,363 (\$487)
d3. Gangrene [248]	10,316	9.71	0.03	4.87	12.9 (0.32)	9.8 (0.39)	\$34,348 (\$1,067)	\$26,721 (\$729)
d4. Diabetes mellitus with complications [50]	8,762	8.24	0.03	3.15	12.8 (0.42)	8.8 (0.39)	\$31,157 (\$1,073)	\$23,545 (\$954)
d5. Complication of device, implant or graft [237]	6,901	6.49	0.02	2.61	8.9 (0.24)	6.2 (0.20)	\$28,996 (\$942)	\$21,772 (\$698)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P47. Other OR lower GI therapeutic procedures [96] Number of diagnoses with this procedure = 171	101,321	100.00	0.29	2.74	14.0 (0.00)	5.6 (0.05)	\$16,999 (\$0)	\$12,289 (\$195)
d1. Other gastrointestinal disorders [155]	27,232	26.88	0.08	1.20	7.8 (0.11)	6.1 (0.06)	\$18,304 (\$490)	\$13,126 (\$218)
d2. Anal and rectal conditions [147]	22,620	22.32	0.06	0.42	3.7 (0.07)	2.0 (0.05)	\$8,287 (\$229)	\$5,619 (\$99)
d3. Intestinal obstruction without hernia [145]	8,518	8.41	0.02	5.28	11.5 (0.23)	9.3 (0.20)	\$27,740 (\$756)	\$19,896 (\$569)
d4. Complication of device, implant or graft [237]	5,561	5.49	0.02	0.69	7.8 (0.30)	5.5 (0.15)	\$17,491 (\$791)	\$11,471 (\$307)
d5. Cancer of rectum and anus [15]	4,353	4.30	0.01	1.70	7.7 (0.29)	5.6 (0.24)	\$18,811 (\$868)	\$13,589 (\$709)
P48. Spinal fusion [158] Number of diagnoses with this procedure = 76	99,149	100.00	0.28	0.38	8.0 (0.00)	3.3 (0.09)	\$51,240 (\$0)	\$17,284 (\$543)
d1. Spondylosis, intervertebral disc disorders, other back problems [205]	64,973	65.53	0.19	0.16	3.7 (0.08)	2.4 (0.10)	\$18,433 (\$547)	\$14,170 (\$384)
d2. Other acquired deformities [209]	8,146	8.22	0.02	0.14	5.8 (0.13)	4.4 (0.10)	\$29,301 (\$1,555)	\$23,511 (\$716)
d3. Complication of device, implant or graft [237]	6,576	6.63	0.02	0.07	5.0 (0.16)	3.6 (0.10)	\$25,281 (\$1,409)	\$18,571 (\$1,233)
d4. Other bone disease and musculoskeletal deformities [212]	5,874	5.92	0.02	0.14	6.6 (0.18)	5.3 (0.12)	\$35,233 (\$1,919)	\$28,903 (\$1,233)
d5. Other fractures [231]	3,887	3.92	0.01	0.93	9.1 (0.27)	7.0 (0.23)	\$36,753 (\$1,578)	\$29,077 (\$1,342)

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Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P49. Other non-OR upper GI therapeutic procedures [93] Number of diagnoses with this procedure = 173	96,488	100.00	0.28	4.17	9.0 (0.00)	3.1 (0.10)	\$18,237 (\$0)	\$7,653 (\$241)
d1. Gastrointestinal hemorrhage [153]	31,557	32.71	0.09	3.30	4.8 (0.07)	3.3 (0.05)	\$11,186 (\$224)	\$8,423 (\$151)
d2. Liver disease, alcohol-related [150]	7,385	7.65	0.02	10.42	6.3 (0.19)	4.1 (0.12)	\$19,416 (\$808)	\$12,963 (\$451)
d3. Poisoning by other medications and drugs [242]	7,223	7.49	0.02	0.13	1.8 (0.07)	0.8 (0.03)	\$4,782 (\$202)	\$3,555 (\$123)
d4. Poisoning by psychotropic agents [241]	6,618	6.86	0.02	0.00	1.7 (0.08)	0.7 (0.04)	\$4,392 (\$126)	\$3,587 (\$123)
d5. Liveborn [218]	6,381	6.61	0.02	0.08	2.4 (0.37)	1.1 (0.17)	\$2,406 (\$635)	\$946 (\$92)
P50. Other therapeutic procedures on muscles and tendons [160] Number of diagnoses with this procedure = 160	95,107	100.00	0.27	0.53	5.0 (0.00)	1.5 (0.03)	\$6,907 (\$0)	\$6,667 (\$129)
d1. Sprains and strains [232]	26,963	28.35	0.08	0.06	2.0 (0.03)	1.1 (0.04)	\$6,399 (\$128)	\$5,642 (\$122)
d2. Other connective tissue disease [211]	21,494	22.60	0.06	0.31	2.9 (0.08)	1.4 (0.05)	\$8,868 (\$468)	\$6,432 (\$189)
d3. Open wounds of extremities [236]	9,913	10.42	0.03	0.08	2.2 (0.06)	1.0 (0.05)	\$7,643 (\$290)	\$6,051 (\$201)
d4. Skin and subcutaneous tissue infections [197]	3,855	4.05	0.01	0.97	6.4 (0.21)	4.6 (0.18)	\$13,349 (\$658)	\$9,335 (\$350)
d5. Other congenital anomalies [217]	3,846	4.04	0.01	0.00	2.0 (0.13)	0.9 (0.07)	\$7,896 (\$340)	\$6,481 (\$272)

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Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P51. Other OR gastrointestinal therapeutic procedures [99] Number of diagnoses with this procedure = 189	94,687	100.00	0.27	5.71	11.0 (0.00)	7.0 (0.07)	\$31,435 (\$0)	\$17,999 (\$374)
d1. Complications of surgical procedures or medical care [238]	11,910	12.58	0.03	1.86	8.3 (0.22)	5.2 (0.13)	\$21,670 (\$1,975)	\$11,094 (\$294)
d2. Complication of device, implant or graft [237]	7,920	8.36	0.02	3.05	8.9 (0.37)	4.9 (0.27)	\$23,253 (\$1,367)	\$13,160 (\$468)
d3. Pancreatic disorders (not diabetes) [152]	7,547	7.97	0.02	6.15	18.8 (0.57)	11.8 (0.53)	\$55,431 (\$2,855)	\$30,660 (\$1,524)
d4. Cancer of pancreas [17]	7,379	7.79	0.02	8.54	15.0 (0.30)	11.8 (0.40)	\$41,702 (\$2,055)	\$30,191 (\$1,393)
d5. Secondary malignancies [42]	7,074	7.47	0.02	5.40	9.3 (0.26)	6.8 (0.14)	\$27,120 (\$1,098)	\$19,553 (\$841)
P52. Gastrostomy, temporary and permanent [71] Number of diagnoses with this procedure = 193	94,495	100.00	0.27	8.38	3.0 (0.00)	9.8 (0.12)	\$4,151 (\$0)	\$16,162 (\$243)
d1. Acute cerebrovascular disease [109]	20,448	21.64	0.06	8.92	15.5 (0.32)	11.8 (0.22)	\$25,757 (\$543)	\$20,047 (\$339)
d2. Aspiration pneumonitis, food/vomitus [129]	13,320	14.10	0.04	10.05	13.0 (0.28)	10.2 (0.14)	\$22,725 (\$483)	\$17,989 (\$369)
d3. Fluid and electrolyte disorders [55]	8,316	8.80	0.02	6.75	10.5 (0.30)	7.7 (0.18)	\$14,500 (\$460)	\$10,655 (\$301)
d4. Nutritional deficiencies [52]	4,794	5.07	0.01	4.27	6.8 (0.28)	4.4 (0.21)	\$10,489 (\$423)	\$7,543 (\$392)
d5. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	4,666	4.94	0.01	13.22	16.4 (0.51)	12.6 (0.37)	\$28,410 (\$1,078)	\$20,090 (\$734)

Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P53. Transurethral excision, drainage, or removal urinary obstruction [101] Number of diagnoses with this procedure = 156	93,598	100.00	0.27	0.73	6.0 (0.00)	1.7 (0.03)	\$12,856 (\$0)	\$6,556 (\$118)
d1. Calculus of urinary tract [160]	40,267	43.02	0.12	0.07	2.5 (0.04)	1.5 (0.02)	\$7,813 (\$139)	\$6,646 (\$112)
d2. Cancer of bladder [32]	30,923	33.04	0.09	0.76	3.3 (0.08)	1.6 (0.05)	\$7,571 (\$166)	\$5,575 (\$133)
d3. Urinary tract infections [159]	3,811	4.07	0.01	1.00	5.7 (0.27)	3.6 (0.21)	\$12,405 (\$670)	\$8,580 (\$372)
d4. Other diseases of bladder and urethra [162]	3,574	3.82	0.01	0.90	3.1 (0.17)	1.5 (0.09)	\$7,066 (\$328)	\$5,162 (\$275)
d5. Complications of surgical procedures or medical care [238]	2,082	2.22	0.01	1.24	3.7 (0.29)	1.8 (0.12)	\$9,480 (\$924)	\$6,043 (\$420)
P54. Mastectomy [167] Number of diagnoses with this procedure = 97	90,253	100.00	0.26	0.15	2.0 (0.00)	1.6 (0.02)	\$6,930 (\$0)	\$7,089 (\$109)
d1. Cancer of breast [24]	86,429	95.76	0.25	0.13	2.6 (0.04)	1.6 (0.02)	\$8,394 (\$141)	\$7,035 (\$108)
d2. Nonmalignant breast conditions [167]	1,145	1.27	0.00	0.00	2.8 (0.35)	1.5 (0.13)	\$9,485 (\$685)	\$7,837 (\$508)
d3. Secondary malignancies [42]	485	0.54	0.00	0.00	3.9 (0.46)	2.0 (0.27)	\$10,554 (\$1,080)	\$8,028 (\$502)
d4. Residual codes, unclassified [259]	407	0.45	0.00	0.00	1.8 (0.18)	0.9 (0.17)	\$8,524 (\$994)	\$7,206 (\$731)
d5. Other aftercare [257]	264	0.29	0.00	*	* (*)	* (*)	* (*)	* (*)

Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P55. CT scan abdomen [179] Number of diagnoses with this procedure = 218	87,289	100.00	0.25	2.41	4.0 (0.00)	3.6 (0.07)	\$6,991 (\$0)	\$6,491 (\$203)
d1. Diverticulosis and diverticulitis [146]	8,648	9.91	0.02	0.67	4.8 (0.08)	3.7 (0.07)	\$7,426 (\$242)	\$6,103 (\$221)
d2. Pancreatic disorders (not diabetes) [152]	7,477	8.57	0.02	0.57	5.8 (0.13)	4.4 (0.11)	\$10,112 (\$576)	\$7,072 (\$244)
d3. Abdominal pain [251]	5,741	6.58	0.02	0.68	2.8 (0.08)	1.8 (0.08)	\$5,260 (\$201)	\$4,378 (\$154)
d4. Intestinal obstruction without hernia [145]	3,947	4.52	0.01	2.26	5.1 (0.22)	3.7 (0.12)	\$8,130 (\$324)	\$6,238 (\$155)
d5. Urinary tract infections [159]	3,092	3.54	0.01	0.63	5.3 (0.19)	3.9 (0.16)	\$8,496 (\$421)	\$6,754 (\$306)
P56. Other hernia repair [86] Number of diagnoses with this procedure = 140	87,133	100.00	0.25	1.05	3.0 (0.00)	2.7 (0.03)	\$9,279 (\$0)	\$8,132 (\$124)
d1. Abdominal hernia [143]	78,498	90.09	0.23	0.78	4.3 (0.05)	2.6 (0.03)	\$11,009 (\$193)	\$7,904 (\$121)
d2. Complications of surgical procedures or medical care [238]	1,870	2.15	0.01	0.95	4.1 (0.22)	2.4 (0.16)	\$11,332 (\$857)	\$7,960 (\$521)
d3. Abdominal pain [251]	590	0.68	0.00	0.77	2.0 (0.13)	1.2 ()	\$5,896 (\$347)	\$4,963 (\$394)
d4. Other congenital anomalies [217]	503	0.58	0.00	9.78	14.8 (2.23)	7.9 (1.77)	\$68,330 (\$11,520)	\$29,783 (\$6,669)
d5. Esophageal disorders [138]	475	0.55	0.00	2.19	7.1 (1.97)	2.8 (0.52)	\$22,113 (\$6,871)	\$9,894 (\$824)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P57. Cardiac stress tests [201] Number of diagnoses with this procedure = 150	84,248	100.00	0.24	0.10	2.0 (0.00)	1.7 (0.07)	\$2,246 (\$0)	\$5,394 (\$205)
d1. Nonspecific chest pain [102]	29,975	35.58	0.09	0.00	1.8 (0.06)	1.0 (0.04)	\$4,910 (\$186)	\$4,257 (\$209)
d2. Coronary atherosclerosis and other heart disease [101]	19,157	22.74	0.05	0.05	3.0 (0.10)	2.0 (0.09)	\$6,623 (\$210)	\$5,701 (\$224)
d3. Acute myocardial infarction [100]	5,357	6.36	0.02	0.75	5.4 (0.15)	4.5 (0.14)	\$11,646 (\$638)	\$9,590 (\$578)
d4. Cardiac dysrhythmias [106]	5,115	6.07	0.01	0.00	3.1 (0.10)	2.1 (0.11)	\$6,861 (\$217)	\$5,921 (\$241)
d5. Other lower respiratory disease [133]	4,057	4.81	0.01	0.00	2.0 (0.08)	1.2 (0.11)	\$5,680 (\$298)	\$5,184 (\$474)
P58. Other OR upper GI therapeutic procedures [94] Number of diagnoses with this procedure = 136	83,243	100.00	0.24	5.49	21.0 (0.00)	5.1 (0.21)	\$32,338 (\$0)	\$15,587 (\$392)
d1. Esophageal disorders [138]	20,772	24.95	0.06	0.57	5.3 (0.18)	2.5 (0.09)	\$17,389 (\$659)	\$10,977 (\$295)
d2. Gastroduodenal ulcer (except hemorrhage) [139]	12,211	14.67	0.04	10.60	10.6 (0.22)	7.4 (0.10)	\$30,494 (\$833)	\$19,360 (\$421)
d3. Other nutritional, endocrine, and metabolic disorders [58]	9,272	11.14	0.03	0.37	4.9 (0.27)	3.8 (0.28)	\$18,600 (\$1,059)	\$15,823 (\$1,083)
d4. Digestive congenital anomalies [214]	7,631	9.17	0.02	0.00	3.6 (0.14)	2.3 (0.08)	\$8,267 (\$452)	\$5,390 (\$195)
d5. Gastrointestinal hemorrhage [153]	6,849	8.23	0.02	16.51	14.1 (0.28)	10.9 (0.25)	\$49,599 (\$1,560)	\$34,266 (\$937)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P59. Magnetic resonance imaging [198] Number of diagnoses with this procedure = 218	81,930	100.00	0.24	1.49	3.0 (0.00)	4.0 (0.11)	\$4,863 (\$0)	\$7,633 (\$178)
d1. Acute cerebrovascular disease [109]	17,209	21.00	0.05	1.92	6.5 (0.21)	4.6 (0.12)	\$11,396 (\$389)	\$8,938 (\$290)
d2. Spondylosis, intervertebral disc disorders, other back problems [205]	6,411	7.82	0.02	0.15	4.5 (0.14)	3.1 (0.11)	\$6,709 (\$268)	\$5,120 (\$134)
d3. Transient cerebral ischemia [112]	4,274	5.22	0.01	0.12	4.1 (0.14)	2.9 (0.14)	\$7,926 (\$251)	\$7,118 (\$242)
d4. Epilepsy, convulsions [83]	4,183	5.11	0.01	0.10	3.8 (0.12)	2.5 (0.12)	\$7,421 (\$249)	\$6,077 (\$210)
d5. Other nervous system disorders [95]	3,011	3.68	0.01	0.33	4.9 (0.24)	2.9 (0.18)	\$8,838 (\$433)	\$6,505 (\$316)
P60. Other fracture and dislocation procedure [148] Number of diagnoses with this procedure = 132	80,523	100.00	0.23	0.57	4.0 (0.00)	1.9 (0.04)	\$10,895 (\$0)	\$7,936 (\$170)
d1. Fracture of upper limb [229]	47,051	58.43	0.14	0.28	3.0 (0.06)	1.5 (0.04)	\$9,608 (\$290)	\$7,030 (\$176)
d2. Complication of device, implant or graft [237]	6,698	8.32	0.02	0.07	3.5 (0.15)	1.9 (0.08)	\$11,886 (\$780)	\$8,245 (\$365)
d3. Other fractures [231]	6,275	7.79	0.02	0.87	9.0 (0.31)	6.7 (0.28)	\$30,286 (\$2,576)	\$19,995 (\$1,062)
d4. Other bone disease and musculoskeletal deformities [212]	3,907	4.85	0.01	0.26	2.8 (0.11)	1.6 (0.07)	\$11,014 (\$427)	\$9,100 (\$262)
d5. Joint disorders and dislocations, trauma-related [225]	3,347	4.16	0.01	0.32	2.8 (0.17)	1.1 (0.10)	\$7,784 (\$505)	\$4,877 (\$191)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P61. Conversion of cardiac rhythm [225] Number of diagnoses with this procedure = 171	77,581	100.00	0.22	21.83	2.0 (0.00)	2.5 (0.05)	\$3,029 (\$0)	\$6,007 (\$114)
d1. Cardiac dysrhythmias [106]	41,562	53.57	0.12	1.60	3.4 (0.07)	2.1 (0.05)	\$6,266 (\$150)	\$4,417 (\$100)
d2. Congestive heart failure, nonhypertensive [108]	8,782	11.32	0.03	20.02	6.6 (0.15)	5.0 (0.13)	\$13,011 (\$367)	\$10,179 (\$255)
d3. Acute myocardial infarction [100]	7,002	9.02	0.02	52.90	3.8 (0.14)	1.8 (0.12)	\$12,037 (\$400)	\$8,914 (\$242)
d4. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	2,313	2.98	0.01	56.26	6.6 (0.37)	4.5 (0.38)	\$14,785 (\$796)	\$10,802 (\$769)
d5. Cardiac arrest and ventricular fibrillation [107]	1,501	1.93	0.00	65.72	2.8 (0.24)	0.8 (0.12)	\$10,690 (\$705)	\$7,634 (\$535)
P62. Heart valve procedures [43] Number of diagnoses with this procedure = 56	75,687	100.00	0.22	7.07	8.0 (0.00)	8.5 (0.16)	\$63,597 (\$0)	\$53,666 (\$1,383)
d1. Heart valve disorders [96]	55,270	73.03	0.16	5.41	11.3 (0.39)	8.1 (0.16)	\$60,768 (\$1,547)	\$50,970 (\$1,342)
d2. Coronary atherosclerosis and other heart disease [101]	4,683	6.19	0.01	9.64	12.1 (0.46)	8.9 (0.36)	\$74,292 (\$2,657)	\$61,286 (\$2,033)
d3. Complication of device, implant or graft [237]	4,003	5.29	0.01	12.31	14.5 (0.56)	10.3 (0.29)	\$82,410 (\$3,277)	\$67,034 (\$2,561)
d4. Cardiac and circulatory congenital anomalies [213]	3,266	4.31	0.01	3.68	8.0 (0.41)	5.2 (0.20)	\$51,974 (\$3,915)	\$38,692 (\$2,599)
d5. Acute myocardial infarction [100]	2,381	3.15	0.01	19.83	17.7 (1.12)	13.8 (0.77)	\$91,815 (\$3,854)	\$75,624 (\$3,155)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P63. Therapeutic radiology [211] Number of diagnoses with this procedure = 168	73,945	100.00	0.21	5.00	3.0 (0.00)	3.8 (0.09)	\$11,950 (\$0)	\$8,169 (\$189)
d1. Secondary malignancies [42]	18,812	25.44	0.05	7.70	8.9 (0.21)	6.2 (0.14)	\$13,696 (\$387)	\$10,236 (\$244)
d2. Maintenance chemotherapy, radiotherapy [45]	13,775	18.63	0.04	2.08	4.3 (0.17)	2.6 (0.22)	\$8,490 (\$406)	\$5,989 (\$284)
d3. Cancer of cervix [26]	5,977	8.08	0.02	0.09	2.8 (0.10)	1.7 (0.07)	\$7,658 (\$245)	\$7,020 (\$353)
d4. Cancer of bronchus, lung [19]	4,338	5.87	0.01	13.83	9.8 (0.43)	6.7 (0.31)	\$16,587 (\$655)	\$12,296 (\$460)
d5. Cancer of thyroid [36]	3,638	4.92	0.01	0.23	2.0 (0.07)	1.4 (0.05)	\$4,046 (\$180)	\$3,402 (\$140)
P64. Other diagnostic ultrasound [197] Number of diagnoses with this procedure = 221	72,644	100.00	0.21	1.20	4.0 (0.00)	3.3 (0.11)	\$4,269 (\$0)	\$5,143 (\$203)
d1. Phlebitis, thrombophlebitis and thromboembolism [118]	12,444	17.13	0.04	0.57	6.0 (0.13)	4.8 (0.08)	\$7,795 (\$389)	\$5,818 (\$241)
d2. Other complications of pregnancy [181]	6,796	9.35	0.02	0.00	2.9 (0.10)	1.9 (0.07)	\$4,327 (\$300)	\$3,134 (\$197)
d3. Skin and subcutaneous tissue infections [197]	6,781	9.33	0.02	0.17	5.5 (0.18)	4.1 (0.13)	\$7,726 (\$357)	\$6,128 (\$234)
d4. Early or threatened labor [184]	4,536	6.24	0.01	0.00	3.6 (0.22)	1.8 (0.16)	\$5,907 (\$512)	\$3,626 (\$281)
d5. Congestive heart failure, nonhypertensive [108]	2,200	3.03	0.01	4.80	6.9 (0.33)	4.8 (0.29)	\$10,762 (\$524)	\$8,533 (\$363)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P65. Suture of skin and subcutaneous tissue [171] Number of diagnoses with this procedure = 182	72,033	100.00	0.21	1.30	0.0 (0.00)	1.8 (0.05)	\$2,106 (\$0)	\$5,442 (\$149)
d1. Intracranial injury [233]	16,499	22.90	0.05	1.63	3.1 (0.10)	1.5 (0.07)	\$8,595 (\$343)	\$5,960 (\$271)
d2. Open wounds of head, neck, and trunk [235]	10,457	14.52	0.03	0.25	1.9 (0.08)	0.8 (0.04)	\$5,999 (\$276)	\$4,385 (\$247)
d3. Other fractures [231]	4,751	6.60	0.01	0.81	3.9 (0.12)	2.5 (0.09)	\$9,081 (\$483)	\$6,352 (\$295)
d4. Open wounds of extremities [236]	3,593	4.99	0.01	0.17	2.1 (0.11)	0.9 (0.06)	\$5,238 (\$259)	\$4,003 (\$262)
d5. Syncope [245]	3,160	4.39	0.01	0.81	3.3 (0.13)	2.0 (0.10)	\$6,404 (\$216)	\$5,491 (\$183)
P66. Ligation of fallopian tubes [121] Number of diagnoses with this procedure = 54	71,512	100.00	0.21	0.00	1.0 (0.00)	1.3 (0.02)	\$3,296 (\$0)	\$5,601 (\$139)
d1. Normal pregnancy and/or delivery [196]	16,667	23.31	0.05	0.00	1.7 (0.03)	1.3 (0.03)	\$5,436 (\$132)	\$5,224 (\$154)
d2. Trauma to perineum and vulva [193]	13,397	18.73	0.04	0.00	1.8 (0.03)	1.3 (0.03)	\$5,801 (\$131)	\$5,527 (\$176)
d3. Other complications of birth, puerperium affecting management of mother [195]	6,255	8.75	0.02	0.00	1.9 (0.04)	1.3 (0.03)	\$6,268 (\$197)	\$5,725 (\$186)
d4. Umbilical cord complication [192]	6,143	8.59	0.02	0.00	1.8 (0.03)	1.2 (0.04)	\$5,973 (\$143)	\$5,735 (\$166)
d5. Fetal distress and abnormal forces of labor [190]	5,275	7.38	0.02	0.00	1.9 (0.03)	1.3 (0.03)	\$5,885 (\$200)	\$5,564 (\$246)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P67. Open prostatectomy [114] Number of diagnoses with this procedure = 40	70,994	100.00	0.20	0.24	3.0 (0.00)	3.5 (0.06)	\$15,567 (\$0)	\$11,987 (\$326)
d1. Cancer of prostate [29]	65,323	92.01	0.19	0.16	4.3 (0.07)	3.4 (0.06)	\$13,374 (\$325)	\$11,984 (\$346)
d2. Hyperplasia of prostate [164]	5,080	7.15	0.01	0.88	6.2 (0.15)	4.9 (0.12)	\$14,343 (\$417)	\$11,973 (\$308)
d3. Cancer of bladder [32]	69	0.10	0.00	*	* (*)	* (*)	* (*)	* (*)
d4. Inflammatory conditions of male genital organs [165]	64	0.09	0.00	*	* (*)	* (*)	* (*)	* (*)
d5. Other diseases of bladder and urethra [162]	45	0.06	0.00	*	* (*)	* (*)	* (*)	* (*)
P68. Incision and excision of CNS [1] Number of diagnoses with this procedure = 121	70,589	100.00	0.20	8.58	16.0 (0.00)	6.5 (0.12)	\$90,321 (\$0)	\$25,030 (\$740)
d1. Acute cerebrovascular disease [109]	15,564	22.05	0.04	15.59	11.7 (0.32)	7.9 (0.27)	\$38,867 (\$1,170)	\$25,878 (\$832)
d2. Intracranial injury [233]	15,450	21.89	0.04	15.68	11.3 (0.29)	7.2 (0.18)	\$42,084 (\$2,079)	\$26,971 (\$1,013)
d3. Cancer of brain and nervous system [35]	11,663	16.52	0.03	2.85	9.4 (0.27)	6.2 (0.17)	\$32,322 (\$1,094)	\$24,687 (\$980)
d4. Other and unspecified benign neoplasm [47]	10,024	14.20	0.03	2.31	8.5 (0.27)	5.4 (0.17)	\$34,112 (\$1,187)	\$26,597 (\$1,037)
d5. Secondary malignancies [42]	5,706	8.08	0.02	2.96	8.6 (0.25)	6.3 (0.20)	\$28,920 (\$1,031)	\$23,412 (\$875)

Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P69. Oophorectomy, unilateral and bilateral [119] Number of diagnoses with this procedure = 108	70,079	100.00	0.20	0.24	4.0 (0.00)	2.5 (0.02)	\$8,950 (\$0)	\$8,137 (\$123)
d1. Ovarian cyst [172]	18,910	26.98	0.05	0.04	3.2 (0.04)	2.3 (0.03)	\$8,566 (\$154)	\$7,385 (\$138)
d2. Other and unspecified benign neoplasm [47]	17,603	25.12	0.05	0.03	3.3 (0.05)	2.4 (0.03)	\$9,065 (\$189)	\$7,588 (\$140)
d3. Inflammatory diseases of female pelvic organs [168]	7,009	10.00	0.02	0.00	4.0 (0.10)	2.6 (0.05)	\$10,656 (\$293)	\$8,364 (\$200)
d4. Endometriosis [169]	5,918	8.45	0.02	0.00	3.0 (0.05)	2.2 (0.04)	\$8,563 (\$187)	\$7,649 (\$162)
d5. Other female genital disorders [175]	5,830	8.32	0.02	0.00	3.2 (0.07)	2.3 (0.05)	\$8,893 (\$218)	\$7,846 (\$180)
P70. Artificial rupture of membranes to assist delivery [136] Number of diagnoses with this procedure = 20	69,516	100.00	0.20	0.00	1.0 (0.00)	1.0 (0.05)	\$1,266 (\$0)	\$3,003 (\$103)
d1. Normal pregnancy and/or delivery [196]	19,753	28.42	0.06	0.00	1.4 (0.03)	0.9 (0.04)	\$3,055 (\$82)	\$2,858 (\$97)
d2. Trauma to perineum and vulva [193]	10,386	14.94	0.03	0.00	1.6 (0.03)	1.0 (0.04)	\$3,122 (\$92)	\$2,869 (\$107)
d3. Umbilical cord complication [192]	8,968	12.90	0.03	0.00	1.5 (0.03)	0.9 (0.05)	\$3,242 (\$111)	\$2,947 (\$141)
d4. Other complications of birth, puerperium affecting management of mother [195]	6,299	9.06	0.02	0.00	1.6 (0.04)	0.9 (0.05)	\$3,540 (\$121)	\$3,177 (\$161)
d5. Fetal distress and abnormal forces of labor [190]	6,180	8.89	0.02	0.00	1.6 (0.03)	1.0 (0.05)	\$3,183 (\$111)	\$2,799 (\$127)

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Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P71. Tracheostomy, temporary and permanent [34] Number of diagnoses with this procedure = 202	68,998	100.00	0.20	25.06	30.0 (0.00)	28.1 (0.42)	\$248,387 (\$0)	\$111,274 (\$2,885)
d1. Respiratory failure, insufficiency, arrest (adult) [131]	8,017	11.62	0.02	26.95	35.7 (1.01)	27.0 (0.84)	\$126,705 (\$3,671)	\$99,903 (\$3,194)
d2. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	4,999	7.25	0.01	35.61	41.4 (1.49)	32.7 (1.07)	\$153,966 (\$4,457)	\$121,775 (\$3,742)
d3. Cancer of head and neck [11]	4,951	7.17	0.01	2.40	11.7 (0.42)	8.5 (0.33)	\$37,854 (\$2,338)	\$26,746 (\$1,410)
d4. Acute cerebrovascular disease [109]	4,646	6.73	0.01	19.93	35.9 (1.10)	28.3 (0.87)	\$125,707 (\$3,995)	\$101,059 (\$2,975)
d5. Intracranial injury [233]	4,521	6.55	0.01	12.16	36.4 (1.48)	29.2 (0.78)	\$155,889 (\$6,272)	\$127,708 (\$4,315)
P72. Arterial blood gases [205] Number of diagnoses with this procedure = 205	68,626	100.00	0.20	5.40	4.0 (0.00)	3.4 (0.13)	\$8,706 (\$0)	\$5,894 (\$583)
d1. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	12,154	17.71	0.03	5.97	5.7 (0.21)	4.1 (0.17)	\$10,015 (\$713)	\$7,334 (\$735)
d2. Congestive heart failure, nonhypertensive [108]	7,785	11.34	0.02	5.80	5.4 (0.30)	3.5 (0.18)	\$8,034 (\$440)	\$5,970 (\$564)
d3. Chronic obstructive pulmonary disease and bronchiectasis [127]	7,664	11.17	0.02	2.26	5.1 (0.23)	3.6 (0.18)	\$8,832 (\$574)	\$6,709 (\$584)
d4. Asthma [128]	6,518	9.50	0.02	0.22	3.8 (0.19)	2.5 (0.17)	\$6,040 (\$433)	\$4,381 (\$593)
d5. Liveborn [218]	3,236	4.72	0.01	0.18	5.7 (0.46)	3.2 (0.33)	\$13,281 (\$2,696)	\$6,110 (\$1,033)

Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P73. Excision, lysis peritoneal adhesions [90] Number of diagnoses with this procedure = 143	67,116	100.00	0.19	3.20	3.0 (0.00)	6.9 (0.08)	\$8,250 (\$0)	\$14,800 (\$220)
d1. Intestinal obstruction without hernia [145]	33,587	50.04	0.10	3.50	11.1 (0.10)	8.8 (0.08)	\$24,969 (\$496)	\$18,024 (\$320)
d2. Other gastrointestinal disorders [155]	8,204	12.22	0.02	0.51	5.5 (0.12)	3.9 (0.16)	\$13,757 (\$377)	\$10,454 (\$250)
d3. Abdominal hernia [143]	6,084	9.07	0.02	1.78	6.8 (0.17)	4.9 (0.18)	\$17,743 (\$566)	\$12,803 (\$308)
d4. Inflammatory diseases of female pelvic organs [168]	4,775	7.11	0.01	0.00	3.4 (0.10)	2.3 (0.06)	\$8,985 (\$272)	\$7,562 (\$212)
d5. Appendicitis and other appendiceal conditions [142]	1,623	2.42	0.00	0.30	7.9 (0.51)	4.6 (0.57)	\$24,060 (\$1,976)	\$14,973 (\$793)
P74. Endoscopy and endoscopic biopsy of the urinary tract [100] Number of diagnoses with this procedure = 197	65,714	100.00	0.19	1.46	12.0 (0.00)	4.3 (0.09)	\$35,753 (\$0)	\$8,332 (\$158)
d1. Calculus of urinary tract [160]	12,968	19.73	0.04	0.00	2.8 (0.05)	1.7 (0.05)	\$7,027 (\$168)	\$5,871 (\$175)
d2. Urinary tract infections [159]	9,380	14.27	0.03	0.48	6.0 (0.13)	4.5 (0.11)	\$10,157 (\$334)	\$8,113 (\$222)
d3. Septicemia (except in labor) [2]	3,207	4.88	0.01	3.60	9.3 (0.39)	7.3 (0.17)	\$17,182 (\$751)	\$13,995 (\$538)
d4. Genitourinary symptoms and ill-defined conditions [163]	2,786	4.24	0.01	0.61	4.5 (0.21)	2.9 (0.14)	\$8,199 (\$333)	\$6,634 (\$223)
d5. Other diseases of kidney and ureters [161]	2,780	4.23	0.01	0.17	3.9 (0.19)	2.3 (0.15)	\$9,196 (\$331)	\$7,530 (\$233)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P75. Other non-OR lower GI therapeutic procedures [95] Number of diagnoses with this procedure = 185	65,141	100.00	0.19	1.37	5.0 (0.00)	3.9 (0.05)	\$9,910 (\$0)	\$7,719 (\$121)
d1. Other and unspecified benign neoplasm [47]	8,188	12.57	0.02	0.11	4.2 (0.17)	2.8 (0.12)	\$7,853 (\$233)	\$6,147 (\$201)
d2. Diverticulosis and diverticulitis [146]	7,331	11.25	0.02	0.58	4.4 (0.11)	3.0 (0.07)	\$8,185 (\$204)	\$6,547 (\$147)
d3. Gastrointestinal hemorrhage [153]	6,012	9.23	0.02	1.02	4.8 (0.13)	3.4 (0.10)	\$9,220 (\$253)	\$7,168 (\$190)
d4. Other gastrointestinal disorders [155]	5,173	7.94	0.01	0.79	4.9 (0.16)	3.4 (0.12)	\$9,102 (\$306)	\$6,931 (\$222)
d5. Intestinal obstruction without hernia [145]	5,161	7.92	0.01	2.93	5.7 (0.21)	3.8 (0.13)	\$8,929 (\$318)	\$6,402 (\$234)
P76. Creation, revision and removal of arteriovenous fistula or vessel-to-vessel cannula for dialysis [57] Number of diagnoses with this procedure = 136	64,457	100.00	0.18	2.68	0.0 (0.00)	4.9 (0.24)	\$9,086 (\$0)	\$15,303 (\$367)
d1. Complication of device, implant or graft [237]	24,857	38.56	0.07	1.55	4.8 (0.17)	2.2 (0.14)	\$15,110 (\$405)	\$11,344 (\$275)
d2. Hypertension with complications and secondary hypertension [99]	13,058	20.26	0.04	1.53	7.9 (0.26)	5.4 (0.22)	\$20,413 (\$544)	\$15,557 (\$426)
d3. Diabetes mellitus with complications [50]	5,009	7.77	0.01	1.97	9.1 (0.42)	6.1 (0.21)	\$22,341 (\$871)	\$17,603 (\$627)
d4. Chronic renal failure [158]	4,133	6.41	0.01	2.66	7.2 (0.46)	3.8 (0.45)	\$17,789 (\$1,067)	\$12,275 (\$632)
d5. Acute and unspecified renal failure [157]	3,605	5.59	0.01	3.83	13.5 (0.45)	10.0 (0.68)	\$32,746 (\$1,268)	\$25,293 (\$1,040)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P77. Lobectomy or pneumonectomy [36] Number of diagnoses with this procedure = 94	64,044	100.00	0.18	3.21	6.0 (0.00)	6.5 (0.07)	\$24,846 (\$0)	\$21,983 (\$444)
d1. Cancer of bronchus, lung [19]	39,736	62.05	0.11	3.26	9.1 (0.11)	6.7 (0.06)	\$29,175 (\$615)	\$22,924 (\$503)
d2. Other lower respiratory disease [133]	4,320	6.75	0.01	1.80	6.4 (0.22)	4.2 (0.14)	\$20,118 (\$742)	\$15,129 (\$399)
d3. Pleurisy, pneumothorax, pulmonary collapse [130]	4,113	6.42	0.01	1.86	10.8 (0.32)	8.1 (0.21)	\$26,769 (\$1,116)	\$19,469 (\$667)
d4. Chronic obstructive pulmonary disease and bronchiectasis [127]	3,913	6.11	0.01	3.09	12.6 (0.58)	8.6 (0.49)	\$47,166 (\$4,850)	\$32,403 (\$5,639)
d5. Secondary malignancies [42]	3,784	5.91	0.01	1.45	6.0 (0.17)	4.5 (0.10)	\$20,260 (\$766)	\$17,087 (\$534)
P78. Other OR therapeutic procedures on nose, mouth and pharynx [33] Number of diagnoses with this procedure = 144	63,738	100.00	0.18	0.49	1.0 (0.00)	1.5 (0.04)	\$4,065 (\$0)	\$6,572 (\$156)
d1. Other and unspecified benign neoplasm [47]	8,058	12.64	0.02	0.06	1.8 (0.05)	0.9 (0.03)	\$7,813 (\$296)	\$6,371 (\$197)
d2. Cancer of head and neck [11]	7,532	11.82	0.02	0.86	6.6 (0.37)	3.5 (0.24)	\$23,398 (\$3,167)	\$12,210 (\$661)
d3. Other congenital anomalies [217]	6,311	9.90	0.02	0.00	2.0 (0.16)	0.8 (0.09)	\$7,287 (\$396)	\$5,663 (\$222)
d4. Diseases of mouth, excluding dental [137]	5,802	9.10	0.02	0.16	2.6 (0.09)	1.3 (0.08)	\$7,901 (\$436)	\$5,779 (\$258)
d5. Acute and chronic tonsillitis [124]	5,499	8.63	0.02	0.00	2.3 (0.06)	1.5 (0.05)	\$4,711 (\$184)	\$3,590 (\$116)

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Table 1
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Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P79. Incision and drainage, skin and subcutaneous tissue [168] Number of diagnoses with this procedure = 172	63,415	100.00	0.18	0.60	1.0 (0.00)	3.8 (0.04)	\$3,601 (\$0)	\$6,673 (\$135)
d1. Skin and subcutaneous tissue infections [197]	33,236	52.41	0.10	0.22	5.0 (0.07)	3.4 (0.05)	\$8,241 (\$323)	\$5,916 (\$149)
d2. Complications of surgical procedures or medical care [238]	9,828	15.50	0.03	0.48	5.6 (0.12)	3.8 (0.10)	\$9,560 (\$267)	\$6,964 (\$214)
d3. Diabetes mellitus with complications [50]	2,511	3.96	0.01	0.19	7.5 (0.28)	5.5 (0.16)	\$12,024 (\$570)	\$8,756 (\$412)
d4. Open wounds of extremities [236]	1,944	3.07	0.01	0.00	4.2 (0.20)	2.7 (0.14)	\$6,525 (\$319)	\$4,963 (\$330)
d5. Septicemia (except in labor) [2]	1,426	2.25	0.00	3.31	9.7 (0.70)	6.8 (0.24)	\$17,668 (\$1,399)	\$12,665 (\$604)
P80. Bone marrow biopsy [65] Number of diagnoses with this procedure = 205	62,603	100.00	0.18	5.94	4.0 (0.00)	6.4 (0.07)	\$10,141 (\$0)	\$12,358 (\$223)
d1. Leukemias [39]	8,445	13.49	0.02	13.46	13.4 (0.50)	7.1 (0.22)	\$36,851 (\$2,275)	\$16,588 (\$830)
d2. Deficiency and other anemia [59]	7,076	11.30	0.02	1.60	6.3 (0.16)	4.3 (0.12)	\$12,494 (\$478)	\$8,102 (\$250)
d3. Coagulation and hemorrhagic disorders [62]	4,871	7.78	0.01	2.50	5.9 (0.22)	3.9 (0.14)	\$14,388 (\$773)	\$9,438 (\$334)
d4. Multiple myeloma [40]	2,913	4.65	0.01	8.77	10.3 (0.39)	8.0 (0.39)	\$18,992 (\$803)	\$15,194 (\$517)
d5. Neoplasms of unspecified nature or uncertain behavior [44]	2,911	4.65	0.01	3.32	7.8 (0.41)	5.4 (0.27)	\$15,096 (\$849)	\$10,215 (\$441)

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Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P81. Other OR heart procedures [49] Number of diagnoses with this procedure = 113	62,244	100.00	0.18	13.11	8.1 (0.19)	5.1 (0.14)	\$42,226 (\$1,595)	\$29,136 (\$1,405)
d1. Acute myocardial infarction [100]	13,885	22.31	0.04	29.61	7.8 (0.20)	5.6 (0.20)	\$49,397 (\$1,519)	\$39,040 (\$1,445)
d2. Cardiac and circulatory congenital anomalies [213]	10,586	17.01	0.03	4.33	10.0 (0.56)	5.5 (0.36)	\$56,260 (\$3,748)	\$34,339 (\$2,037)
d3. Cardiac dysrhythmias [106]	9,601	15.42	0.03	1.34	3.2 (0.20)	1.3 (0.24)	\$15,502 (\$1,162)	\$11,204 (\$1,255)
d4. Coronary atherosclerosis and other heart disease [101]	6,103	9.80	0.02	11.97	7.6 (0.26)	5.3 (0.18)	\$48,536 (\$2,272)	\$38,684 (\$2,239)
d5. Peri-, endo-, and myocarditis, cardiomyopathy (except that caused by tuberculosis or sexually transmitted disease) [97]	6,018	9.67	0.02	8.75	10.5 (0.56)	7.1 (0.17)	\$33,378 (\$2,473)	\$21,569 (\$693)
P82. Arthroplasty other than hip or knee [154] Number of diagnoses with this procedure = 68	61,594	100.00	0.18	0.11	3.0 (0.00)	1.2 (0.04)	\$17,975 (\$0)	\$7,520 (\$199)
d1. Other connective tissue disease [211]	16,612	26.97	0.05	0.00	1.6 (0.03)	0.8 (0.03)	\$6,468 (\$180)	\$5,737 (\$191)
d2. Sprains and strains [232]	10,954	17.78	0.03	0.05	1.7 (0.03)	0.9 (0.03)	\$6,530 (\$150)	\$5,809 (\$161)
d3. Osteoarthritis [203]	9,529	15.47	0.03	0.11	2.8 (0.06)	2.1 (0.06)	\$13,622 (\$307)	\$13,048 (\$223)
d4. Joint disorders and dislocations, trauma-related [225]	6,727	10.92	0.02	0.00	1.5 (0.03)	0.7 (0.02)	\$7,516 (\$225)	\$6,437 (\$213)
d5. Fracture of upper limb [229]	5,983	9.71	0.02	0.52	4.7 (0.12)	3.2 (0.10)	\$16,787 (\$396)	\$14,905 (\$321)

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	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P83. Abdominal paracentesis [88] Number of diagnoses with this procedure = 170	60,627	100.00	0.17	10.87	5.0 (0.00)	5.5 (0.07)	\$4,523 (\$0)	\$10,070 (\$175)
d1. Liver disease, alcohol-related [150]	12,051	19.88	0.03	10.28	7.5 (0.15)	5.2 (0.13)	\$13,429 (\$438)	\$9,302 (\$279)
d2. Other liver diseases [151]	11,203	18.48	0.03	8.93	6.8 (0.15)	4.7 (0.12)	\$11,447 (\$359)	\$8,064 (\$331)
d3. Secondary malignancies [42]	6,132	10.11	0.02	19.71	7.1 (0.21)	4.8 (0.18)	\$13,162 (\$603)	\$8,551 (\$295)
d4. Complications of surgical procedures or medical care [238]	4,329	7.14	0.01	1.11	7.7 (0.25)	5.6 (0.20)	\$15,264 (\$478)	\$11,642 (\$311)
d5. Peritonitis and intestinal abscess [148]	3,576	5.90	0.01	6.51	8.5 (0.27)	6.2 (0.18)	\$16,721 (\$755)	\$12,155 (\$631)
P84. Fetal monitoring [139] Number of diagnoses with this procedure = 62	59,905	100.00	0.17	0.00	1.0 (0.00)	1.2 (0.09)	\$2,919 (\$0)	\$2,691 (\$119)
d1. Early or threatened labor [184]	17,244	28.79	0.05	0.00	2.7 (0.23)	1.2 (0.13)	\$3,635 (\$202)	\$2,487 (\$142)
d2. Normal pregnancy and/or delivery [196]	8,453	14.11	0.02	0.00	1.6 (0.11)	0.9 (0.14)	\$2,924 (\$164)	\$2,608 (\$238)
d3. Other complications of pregnancy [181]	7,649	12.77	0.02	0.00	2.3 (0.10)	1.4 (0.08)	\$3,600 (\$148)	\$2,861 (\$125)
d4. Other complications of birth, puerperium affecting management of mother [195]	3,731	6.23	0.01	0.00	2.3 (0.27)	1.0 (0.13)	\$3,791 (\$343)	\$2,584 (\$150)
d5. Polyhydramnios and other problems of amniotic cavity [191]	3,534	5.90	0.01	0.00	3.3 (0.23)	1.6 (0.09)	\$4,486 (\$260)	\$3,255 (\$149)

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Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P85. Other OR therapeutic procedures on joints [162] Number of diagnoses with this procedure = 122	59,248	100.00	0.17	0.79	3.0 (0.00)	2.7 (0.06)	\$9,521 (\$0)	\$9,616 (\$188)
d1. Complication of device, implant or graft [237]	9,592	16.19	0.03	1.45	8.6 (0.27)	5.7 (0.18)	\$21,292 (\$837)	\$15,871 (\$500)
d2. Infective arthritis and osteomyelitis (except that caused by tuberculosis or sexually transmitted disease) [201]	8,957	15.12	0.03	1.04	7.9 (0.20)	5.4 (0.13)	\$15,972 (\$414)	\$11,796 (\$282)
d3. Osteoarthritis [203]	5,168	8.72	0.01	0.00	2.6 (0.07)	1.7 (0.06)	\$9,534 (\$275)	\$8,063 (\$270)
d4. Other connective tissue disease [211]	4,933	8.33	0.01	0.09	2.8 (0.15)	1.4 (0.10)	\$8,526 (\$370)	\$6,879 (\$311)
d5. Joint disorders and dislocations, trauma-related [225]	4,568	7.71	0.01	0.08	2.4 (0.09)	1.4 (0.08)	\$9,480 (\$319)	\$8,124 (\$333)
P86. Diagnostic ultrasound of abdomen or retroperitoneum [196] Number of diagnoses with this procedure = 206	58,694	100.00	0.17	1.70	5.0 (0.00)	2.8 (0.08)	\$4,691 (\$0)	\$5,419 (\$181)
d1. Pancreatic disorders (not diabetes) [152]	5,748	9.79	0.02	1.08	4.5 (0.13)	3.2 (0.10)	\$8,415 (\$572)	\$6,106 (\$269)
d2. Abdominal pain [251]	4,200	7.16	0.01	0.24	2.1 (0.08)	1.3 (0.08)	\$4,184 (\$305)	\$3,131 (\$117)
d3. Urinary tract infections [159]	3,445	5.87	0.01	0.33	5.0 (0.34)	3.4 (0.14)	\$7,954 (\$476)	\$6,037 (\$349)
d4. Biliary tract disease [149]	3,163	5.39	0.01	0.55	3.4 (0.18)	1.9 (0.12)	\$5,805 (\$302)	\$4,125 (\$200)
d5. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	1,981	3.38	0.01	2.90	6.9 (0.29)	5.0 (0.32)	\$12,130 (\$633)	\$9,298 (\$615)

Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P87. Other OR therapeutic nervous system procedures [9] Number of diagnoses with this procedure = 157	58,551	100.00	0.17	6.58	3.0 (0.00)	4.0 (0.11)	\$3,606 (\$0)	\$16,252 (\$658)
d1. Other nervous system disorders [95]	7,937	13.56	0.02	0.38	3.8 (0.15)	2.1 (0.13)	\$12,953 (\$769)	\$9,397 (\$670)
d2. Other and unspecified benign neoplasm [47]	6,337	10.82	0.02	0.58	6.0 (0.18)	4.2 (0.11)	\$23,862 (\$1,028)	\$19,963 (\$977)
d3. Intracranial injury [233]	4,566	7.80	0.01	16.22	14.2 (0.78)	8.8 (0.65)	\$70,294 (\$8,737)	\$41,334 (\$2,815)
d4. Other fractures [231]	4,336	7.41	0.01	2.78	7.6 (0.32)	4.9 (0.19)	\$28,487 (\$2,388)	\$16,475 (\$828)
d5. Acute cerebrovascular disease [109]	4,163	7.11	0.01	48.99	13.5 (0.63)	8.6 (0.53)	\$57,816 (\$5,849)	\$33,622 (\$2,049)
P88. Other OR therapeutic procedures, female organs [132] Number of diagnoses with this procedure = 129	56,617	100.00	0.16	0.23	6.0 (0.00)	1.9 (0.03)	\$11,455 (\$0)	\$6,823 (\$128)
d1. Prolapse of female genital organs [170]	17,795	31.43	0.05	0.09	2.8 (0.04)	2.0 (0.04)	\$8,346 (\$165)	\$7,420 (\$142)
d2. Ectopic pregnancy [180]	6,807	12.02	0.02	0.00	1.9 (0.05)	1.2 (0.06)	\$6,973 (\$144)	\$6,550 (\$157)
d3. Other complications of birth, puerperium affecting management of mother [195]	6,241	11.02	0.02	0.00	3.3 (0.24)	1.2 (0.09)	\$5,974 (\$312)	\$3,987 (\$149)
d4. Other female genital disorders [175]	4,744	8.38	0.01	0.00	3.9 (0.24)	2.0 (0.09)	\$10,998 (\$667)	\$7,176 (\$218)
d5. Cancer of other female genital organs [28]	4,414	7.80	0.01	0.45	6.1 (0.32)	3.6 (0.19)	\$16,128 (\$984)	\$10,468 (\$462)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P89. Treatment, fracture or dislocation of radius and ulna [145] Number of diagnoses with this procedure = 100	55,979	100.00	0.16	0.18	3.0 (0.00)	1.5 (0.03)	\$2,315 (\$0)	\$6,920 (\$108)
d1. Fracture of upper limb [229]	46,780	83.57	0.13	0.08	2.6 (0.05)	1.4 (0.03)	\$8,854 (\$213)	\$6,757 (\$112)
d2. Other bone disease and musculoskeletal deformities [212]	1,474	2.63	0.00	0.00	1.9 (0.08)	1.1 (0.08)	\$8,458 (\$371)	\$7,003 (\$271)
d3. Other fractures [231]	1,234	2.20	0.00	0.00	5.9 (0.38)	3.7 (0.36)	\$15,685 (\$2,393)	\$7,280 (\$660)
d4. Joint disorders and dislocations, trauma-related [225]	978	1.75	0.00	0.00	1.9 (0.14)	0.9 (0.08)	\$6,291 (\$379)	\$4,799 (\$333)
d5. Intracranial injury [233]	913	1.63	0.00	2.16	6.1 (0.50)	4.0 (0.31)	\$22,130 (\$1,997)	\$13,286 (\$1,907)
P90. Other diagnostic radiology and related techniques [226] Number of diagnoses with this procedure = 216	55,472	100.00	0.16	1.70	7.0 (0.00)	3.4 (0.11)	\$6,315 (\$0)	\$6,896 (\$384)
d1. Calculus of urinary tract [160]	7,166	12.92	0.02	0.07	2.7 (0.06)	1.6 (0.06)	\$7,669 (\$198)	\$6,819 (\$260)
d2. Urinary tract infections [159]	5,009	9.03	0.01	0.45	6.0 (0.33)	4.6 (0.16)	\$9,777 (\$375)	\$7,373 (\$420)
d3. Liveborn [218]	2,423	4.37	0.01	0.00	7.6 (0.77)	4.0 (0.41)	\$14,921 (\$2,152)	\$4,790 (\$918)
d4. Pneumonia (except that caused by tuberculosis or sexually transmitted disease) [122]	2,210	3.98	0.01	3.33	7.1 (0.44)	5.4 (0.30)	\$10,358 (\$700)	\$8,194 (\$670)
d5. Other diseases of kidney and ureters [161]	2,104	3.79	0.01	0.22	3.5 (0.16)	2.2 (0.13)	\$9,617 (\$346)	\$8,034 (\$301)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P91. Other OR therapeutic procedures of urinary tract [112] Number of diagnoses with this procedure = 145	53,333	100.00	0.15	1.71	2.0 (0.00)	4.2 (0.10)	\$8,173 (\$0)	\$11,610 (\$285)
d1. Other diseases of kidney and ureters [161]	10,138	19.01	0.03	0.11	4.6 (0.13)	3.4 (0.12)	\$12,417 (\$505)	\$9,613 (\$305)
d2. Cancer of bladder [32]	10,019	18.79	0.03	3.04	10.9 (0.22)	8.4 (0.14)	\$33,113 (\$931)	\$26,013 (\$714)
d3. Other diseases of bladder and urethra [162]	5,862	10.99	0.02	1.38	5.8 (0.18)	3.8 (0.20)	\$15,076 (\$797)	\$9,335 (\$368)
d4. Calculus of urinary tract [160]	4,637	8.69	0.01	0.14	4.2 (0.16)	2.9 (0.13)	\$11,031 (\$537)	\$8,427 (\$226)
d5. Other female genital disorders [175]	4,560	8.55	0.01	0.13	3.0 (0.14)	1.7 (0.06)	\$8,719 (\$457)	\$6,577 (\$182)
P92. Other non-OR gastrointestinal therapeutic procedures [98] Number of diagnoses with this procedure = 144	52,681	100.00	0.15	2.30	3.0 (0.00)	4.0 (0.09)	\$9,136 (\$0)	\$9,744 (\$243)
d1. Biliary tract disease [149]	21,292	40.42	0.06	0.77	4.6 (0.10)	3.0 (0.11)	\$11,080 (\$376)	\$8,450 (\$255)
d2. Pancreatic disorders (not diabetes) [152]	7,804	14.81	0.02	0.81	7.0 (0.20)	4.7 (0.14)	\$15,495 (\$693)	\$11,086 (\$404)
d3. Complications of surgical procedures or medical care [238]	2,919	5.54	0.01	1.21	5.7 (0.24)	3.8 (0.19)	\$13,456 (\$888)	\$8,756 (\$485)
d4. Cancer of pancreas [17]	2,706	5.14	0.01	4.40	6.6 (0.29)	4.6 (0.28)	\$13,830 (\$654)	\$10,501 (\$419)
d5. Septicemia (except in labor) [2]	2,442	4.64	0.01	5.59	9.6 (0.40)	7.3 (0.24)	\$22,960 (\$1,418)	\$17,750 (\$803)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P93. Inguinal and femoral hernia repair [85] Number of diagnoses with this procedure = 142	51,840	100.00	0.15	0.87	2.0 (0.00)	1.5 (0.04)	\$5,745 (\$0)	\$6,338 (\$117)
d1. Abdominal hernia [143]	43,549	84.01	0.12	0.71	3.2 (0.06)	1.4 (0.04)	\$8,413 (\$158)	\$6,080 (\$115)
d2. Complications of surgical procedures or medical care [238]	2,123	4.09	0.01	0.29	2.6 (0.16)	1.0 (0.09)	\$7,435 (\$469)	\$5,749 (\$255)
d3. Liveborn [218]	894	1.72	0.00	0.32	75.7 (2.48)	74.6 (2.66)	\$182,149 (\$12,074)	\$149,539 (\$11,530)
d4. Other aftercare [257]	621	1.20	0.00	0.00	1.3 (0.21)	0.5 (0.04)	\$4,238 (\$275)	\$3,284 (\$380)
d5. Abdominal pain [251]	477	0.92	0.00	0.00	1.7 (0.19)	0.8 (†)	\$4,392 (\$460)	\$3,581 (\$240)
P94. Other non-OR therapeutic cardiovascular procedures [63] Number of diagnoses with this procedure = 168	51,579	100.00	0.15	9.75	6.0 (0.00)	4.8 (0.15)	\$12,070 (\$0)	\$16,019 (\$386)
d1. Complication of device, implant or graft [237]	8,154	15.81	0.02	3.55	5.1 (0.19)	2.8 (0.13)	\$14,519 (\$558)	\$10,015 (\$392)
d2. Coronary atherosclerosis and other heart disease [101]	6,962	13.50	0.02	0.76	3.5 (0.14)	2.1 (0.12)	\$19,744 (\$901)	\$17,548 (\$943)
d3. Hypertension with complications and secondary hypertension [99]	5,417	10.50	0.02	6.64	7.5 (0.24)	5.3 (0.20)	\$17,140 (\$627)	\$12,657 (\$442)
d4. Acute and unspecified renal failure [157]	5,092	9.87	0.01	15.45	10.4 (0.27)	8.0 (0.33)	\$25,888 (\$935)	\$18,938 (\$702)
d5. Acute myocardial infarction [100]	3,958	7.67	0.01	12.19	6.2 (0.30)	4.3 (0.21)	\$27,016 (\$1,211)	\$23,191 (\$1,139)

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Table 1
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Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P95. Insertion of catheter or spinal stimulator and injection into spinal canal [5] Number of diagnoses with this procedure = 202	50,490	100.00	0.14	1.15	1.0 (0.00)	3.6 (0.13)	\$3,828 (\$0)	\$6,743 (\$210)
d1. Spondylosis, intervertebral disc disorders, other back problems[205]	22,476	44.52	0.06	0.17	4.7 (0.21)	3.2 (0.16)	\$7,347 (\$300)	\$5,655 (\$263)
d2. Pathological fracture [207]	2,681	5.31	0.01	1.49	8.0 (0.27)	5.9 (0.33)	\$10,251 (\$411)	\$8,566 (\$381)
d3. Other nervous system disorders [95]	2,557	5.06	0.01	0.00	3.8 (0.20)	2.7 (0.26)	\$10,756 (\$521)	\$7,420 (\$638)
d4. Other fractures [231]	1,554	3.08	0.00	1.07	6.8 (0.25)	5.3 (0.37)	\$17,602 (\$3,944)	\$10,613 (\$1,002)
d5. Secondary malignancies [42]	1,311	2.60	0.00	13.61	10.3 (0.71)	6.8 (0.64)	\$17,397 (\$1,280)	\$11,570 (\$1,004)
P96. Other physical therapy and rehabilitation [215] Number of diagnoses with this procedure = 157	49,535	100.00	0.14	0.82	5.0 (0.00)	10.2 (0.54)	\$13,880 (\$0)	\$9,692 (\$605)
d1. Rehabilitation care, fitting of prostheses, and adjustment of devices [254]	19,554	39.48	0.06	0.81	15.6 (0.86)	12.8 (0.81)	\$18,176 (\$1,296)	\$14,100 (\$1,225)
d2. Affective disorders [69]	9,113	18.40	0.03	0.00	13.1 (0.70)	9.6 (0.55)	\$10,149 (\$590)	\$7,508 (\$390)
d3. Schizophrenia and related disorders [70]	6,044	12.20	0.02	0.00	17.1 (0.82)	12.7 (0.53)	\$11,411 (\$1,098)	\$8,266 (\$955)
d4. Other mental conditions [74]	1,785	3.60	0.01	0.00	15.2 (2.11)	7.1 (1.37)	\$10,885 (\$1,363)	\$5,893 (\$937)
d5. Acute cerebrovascular disease [109]	1,339	2.70	0.00	2.51	7.8 (0.64)	5.2 (0.49)	\$10,344 (\$642)	\$7,848 (\$624)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P97. Other therapeutic procedures, hemic and lymphatic system [67] Number of diagnoses with this procedure = 179	49,361	100.00	0.14	2.72	7.0 (0.00)	3.5 (0.07)	\$12,525 (\$0)	\$11,130 (\$219)
d1. Secondary malignancies [42]	10,713	21.70	0.03	1.99	5.0 (0.12)	3.1 (0.10)	\$14,769 (\$616)	\$11,063 (\$301)
d2. Non-Hodgkin's lymphoma [38]	5,271	10.68	0.02	5.62	9.0 (0.28)	6.4 (0.23)	\$21,139 (\$861)	\$14,763 (\$410)
d3. Cancer of breast [24]	3,713	7.52	0.01	0.13	1.5 (0.08)	0.7 (0.03)	\$5,859 (\$192)	\$5,372 (\$226)
d4. Cancer of prostate [29]	3,255	6.59	0.01	0.14	2.9 (0.13)	2.0 (0.20)	\$9,427 (\$389)	\$8,338 (\$433)
d5. Cancer of head and neck [11]	3,152	6.39	0.01	1.14	7.2 (0.44)	3.7 (0.18)	\$27,381 (\$4,190)	\$15,778 (\$720)
P98. Genitourinary incontinence procedures [106] Number of diagnoses with this procedure = 54	49,128	100.00	0.14	0.05	3.0 (0.00)	1.8 (0.03)	\$7,284 (\$0)	\$6,561 (\$114)
d1. Other female genital disorders [175]	35,823	72.92	0.10	0.03	2.5 (0.03)	1.7 (0.03)	\$6,962 (\$120)	\$6,303 (\$118)
d2. Prolapse of female genital organs [170]	8,301	16.90	0.02	0.06	2.8 (0.06)	2.0 (0.05)	\$8,313 (\$179)	\$7,470 (\$189)
d3. Other diseases of bladder and urethra [162]	2,077	4.23	0.01	0.00	2.5 (0.09)	1.8 (0.10)	\$8,597 (\$367)	\$7,277 (\$444)
d4. Genitourinary symptoms and ill-defined conditions [163]	1,972	4.01	0.01	0.33	2.5 (0.14)	1.7 (0.14)	\$7,999 (\$250)	\$7,223 (\$410)
d5. Complications of surgical procedures or medical care [238]	290	0.59	0.00	*	* (*)	* (*)	* (*)	* (*)

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Table 1
The top 100 principal procedures and their associated principal diagnoses: HCUP Nationwide Inpatient Sample, 1996

Top 100 ranked procedures with top 5 diagnoses ranked below ¹ [CCS category in brackets]	Number of discharges			Percent died	Length of stay		Charges	
	Total	As a percent of discharges w/ this procedure ²	As a percent of all discharges ³		Mean (S.E.) ⁴	Median (S.E.) ⁴	Mean (S.E.) ⁴	Median (S.E.) ⁴
P99. Thyroidectomy, partial or complete [10] Number of diagnoses with this procedure = 55	47,752	100.00	0.14	0.12	2.0 (0.00)	1.0 (0.03)	\$5,572 (\$0)	\$6,475 (\$136)
d1. Thyroid disorders [48]	22,657	47.45	0.07	0.10	1.9 (0.04)	1.1 (0.04)	\$7,364 (\$153)	\$6,350 (\$141)
d2. Cancer of thyroid [36]	12,128	25.40	0.03	0.25	2.3 (0.06)	1.3 (0.04)	\$8,792 (\$217)	\$7,313 (\$203)
d3. Other and unspecified benign neoplasm [47]	11,443	23.96	0.03	0.05	1.6 (0.04)	0.8 (0.02)	\$6,751 (\$159)	\$5,889 (\$152)
d4. Other endocrine disorders [51]	248	0.52	0.00	*	* (*)	* (*)	* (*)	* (*)
d5. Non-Hodgkin's lymphoma [38]	228	0.48	0.00	*	* (*)	* (*)	* (*)	* (*)
P100. Other OR therapeutic procedures on skin and breast [175] Number of diagnoses with this procedure = 162	47,492	100.00	0.14	0.48	1.0 (0.00)	1.1 (0.06)	\$10,143 (\$0)	\$8,335 (\$261)
d1. Nonmalignant breast conditions [167]	19,692	41.46	0.06	0.02	1.6 (0.03)	0.8 (0.03)	\$8,402 (\$260)	\$7,503 (\$291)
d2. Other aftercare [257]	3,946	8.31	0.01	0.12	2.8 (0.10)	2.0 (0.15)	\$11,806 (\$514)	\$9,859 (\$472)
d3. Other skin disorders [200]	3,363	7.08	0.01	0.11	2.0 (0.17)	0.9 (0.10)	\$8,829 (\$610)	\$8,351 (\$994)
d4. Other nutritional, endocrine, and metabolic disorders [58]	3,294	6.94	0.01	0.00	2.6 (0.12)	1.5 (0.11)	\$9,024 (\$581)	\$7,573 (\$708)
d5. Complication of device, implant or graft [237]	3,068	6.46	0.01	0.00	2.9 (0.12)	1.6 (0.13)	\$11,147 (\$688)	\$9,096 (\$500)

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Source: AHCPR, Center for Organization and Delivery Studies, Healthcare Cost and Utilization Project (HCUP).

¹ Principal diagnoses and procedures are categorized using Clinical Classification Software (CCS).

² Percent of discharges with the principal procedure that have this principal diagnosis. (Denominator is discharges with this procedure.)

³ Percent of all discharges that have this principal procedure-principal diagnosis combination. (Denominator is all discharges.)

⁴ S.E. is standard error.

* When an estimate would have been based on less than 70 unweighted cases, the procedure-diagnosis combination is still listed, but information on mortality, length of stay, and total charges is suppressed.

† The software could not calculate this statistic because there were relatively few cases and the majority of values were the same.