

EXHIBIT 3.1 Most Frequent All-listed Procedures

Number of Stays, Stays per 10,000 Population, and Growth of the Most Frequent All-listed Procedures for Hospital Stays, 1997 and 2009

ALL-LISTED CCS PROCEDURES	NUMBER OF STAYS WITH THE PROCEDURE IN THOUSANDS		STAYS PER 10,000 POPULATION WITH THE PROCEDURE		CUMULATIVE GROWTH IN RATE
	1997	2009	1997	2009	1997-2009
All stays (with and without procedures)	34,679	39,435	1,278	1,284	1% ‡
All stays with any procedure	21,257	24,730	783	806	3% ‡
Percent of all stays with a procedure	61%	63%			
Blood transfusion	1,097	2,829	40	92	128%
Prophylactic vaccinations and inoculations	567	1,796	21	59	180%
Respiratory intubation and mechanical ventilation	919	1,498	34	49	44%
Diagnostic cardiac catheterization, coronary arteriography	1,461	1,476	54	48	-11% ‡
Cesarean section	800	1,382	29	45	53%
Repair of obstetric laceration	1,137	1,343	42	44	4% ‡
Upper gastrointestinal endoscopy	1,105	1,242	41	40	-1% ‡
Circumcision	1,164	1,174	43	38	-11%
Artificial rupture of membranes to assist delivery	747	932	28	30	10% ‡
Fetal monitoring	1,002	860	37	28	-24% ‡
Hemodialysis	473	837	17	27	56%
Echocardiogram	632	813	23	26	14% ‡
Percutaneous transluminal coronary angioplasty (PTCA)	581	693	21	23	5% ‡
Knee arthroplasty	329	686	12	22	84%
Enteral and parenteral nutrition	277	576	10	19	84%
Colonoscopy and biopsy	531	564	20	18	-6% ‡
Laminectomy, excision intervertebral disc	425	504	16	16	5% ‡
Hysterectomy	587	483	22	16	-27%
Incision of pleura, thoracentesis, chest drainage	349	476	13	16	20%
Cholecystectomy and common duct exploration	448	460	16	15	-9%

‡ 2009 stays per 10,000 population are not statistically different from 1997 stays per 10,000 population at $p < 0.05$.

Source: AHRQ, Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project, Nationwide Inpatient Sample, 1997 and 2009.

The rate of stays with procedures remained relatively stable at about 1,300 stays per 10,000 population from 1997 to 2009. About two-thirds of hospital stays involved at least one procedure.

- Blood transfusion occurred in over ten percent of all hospital stays that included a procedure and was the most frequently performed procedure in 2009. The rate of blood transfusion more than doubled from 1997 to 2009.
- Vaccinations were the second most frequent procedure performed in 2009. The rate of stays with vaccinations, typically hepatitis B immunizations for liveborn infants, increased by 180 percent from 1997 to 2009.

- The rate of stays with cardiac catheterization, the fourth most common procedure in 2009, remained relatively stable from 1997 to 2009, at about 50 per 10,000 population.
- Cesarean section was the most frequent major operating room procedure—performed on 1.4 million females in 2009.
- The rate of stays with knee arthroplasty increased 84 percent from 12 per 10,000 population in 1997 to 22 per 10,000 population in 2009. Knee arthroplasty was the fourteenth most common inpatient procedure in 2009.

Number of Stays, Stays per 10,000 Population, and Growth of Selected All-listed Procedures for Hospital Stays, 1997 and 2009

ALL-LISTED CCS PROCEDURES	NUMBER OF STAYS WITH THE PROCEDURE IN THOUSANDS		STAYS PER 10,000 POPULATION WITH THE PROCEDURE		CUMULATIVE GROWTH IN RATE
	1997	2009	1997	2009	1997-2009
Procedures with most rapid growth in stays per population*					
Indwelling catheter	60	203	2	7	198%
Prophylactic vaccinations and inoculations	567	1,796	21	59	180%
Blood transfusion	1,097	2,829	40	92	128%
Spinal fusion	202	448	7	15	96%
Incision and drainage, skin and subcutaneous tissue	118	248	4	8	85%
Knee arthroplasty	329	686	12	22	84%
Enteral and parenteral nutrition	277	576	10	19	84%
Hemodialysis	473	837	17	27	56%
Cesarean section	800	1,382	29	45	53%
Respiratory intubation and mechanical ventilation	919	1,498	34	49	44%
Hip replacement	291	438	11	14	33%

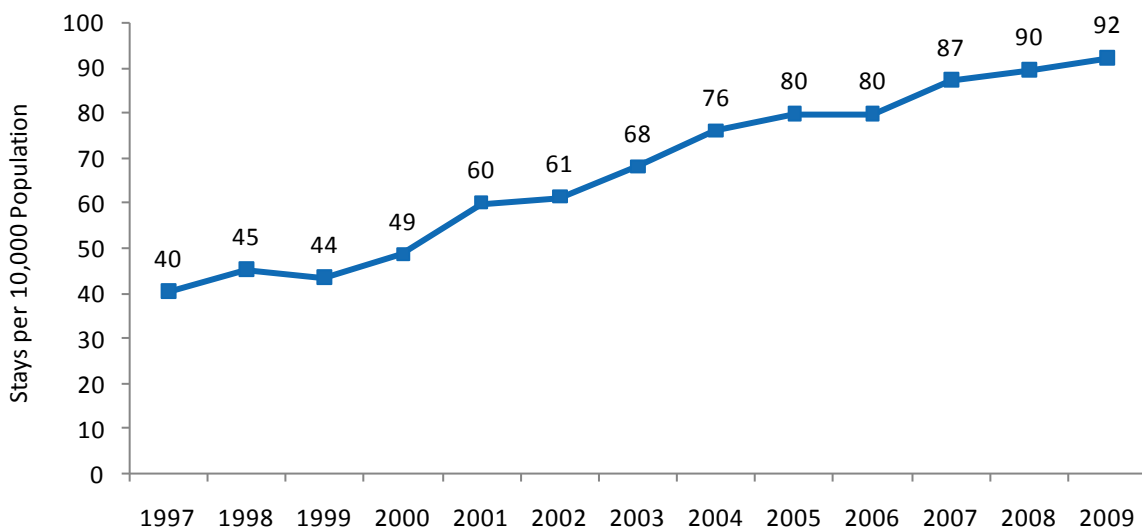
* Includes only procedures with at least 100,000 stays in either 2009 or 1997. 2009 stays per 10,000 population are statistically different from 1997 stays per 10,000 population at $p < 0.05$.

Source: AHRQ, Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project, Nationwide Inpatient Sample, 1997 and 2009.

The majority of the top ten most rapidly growing all-listed procedures were also among the most frequent procedures.

- Stays with indwelling catheter approximately tripled from 1997 to 2009, increasing from 2 stays per 10,000 population in 1997 to 7 stays per population in 2009.
- The rate of hospitalizations with spinal fusion doubled from 7 stays per 10,000 population in 1997 to 15 stays per 10,000 population in 2009.
- The rate of stays with hip replacement grew 33 percent, from 11 stays per 10,000 population in 1997 to 14 stays per 10,000 population in 2009.

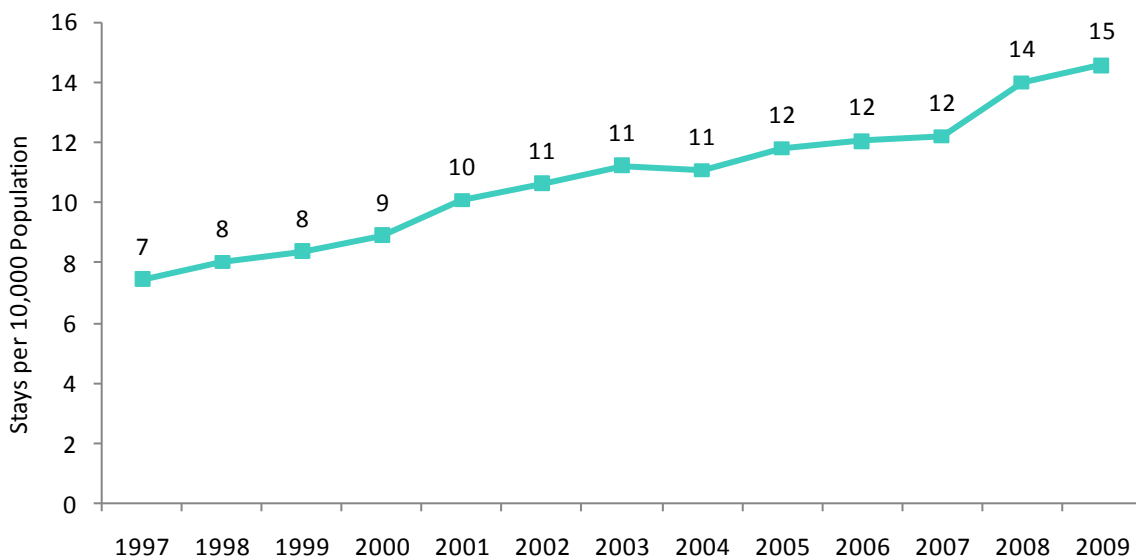
Hospital Stays per 10,000 Population with All-listed Blood Transfusion, 1997-2009



Source: AHRQ, Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project, Nationwide Inpatient Sample, 1997-2009.

- The rate of stays with all-listed blood transfusion has increased at a relatively steady rate from 40 stays per 10,000 population in 1997 to 92 stays per 10,000 population in 2009.

Hospital Stays per 10,000 Population with All-listed Spinal Fusion, 1997-2009



Source: AHRQ, Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project, Nationwide Inpatient Sample, 1997-2009.

- The rate of stays with all-listed spinal fusion increased at a relatively steady rate from 7 stays per 10,000 population in 1997 to 15 stays per 10,000 population in 2009.