

Supplemental Information

SUPPLEMENTAL TABLE 1 APR-DRGs Included in Individual Service Lines Excluded or Subanalyzed

Individual Service Lines and APR-DRG	APR-DRG Title Version 30
Oncology	
41	Nervous system malignancy
110	Ear, nose, mouth, throat, cranial, and facial malignancies
136	Respiratory malignancy
240	Digestive malignancy
281	Malignancy of hepatobiliary system and pancreas
343	Musculoskeletal malignancy and pathologic fractures due to musculoskeletal malignancy
362	Mastectomy procedures
382	Malignant breast disorders
442	Kidney and urinary tract procedures for malignancy
461	Kidney and urinary tract malignancy
500	Malignancy, male reproductive system
511	Uterine and adnexa procedures for ovarian and adnexal malignancy
512	Uterine and adnexa procedures for nonovarian and nonadnexal malignancy
513	Uterine and adnexa procedures for nonmalignancy except leiomyoma
517	D&C for nonobstetric diagnoses
519	Uterine and adnexa procedures for leiomyoma
530	Female reproductive system malignancy
680	Major OR procedures for lymphatic, hematopoietic, and other neoplasms
681	Other OR procedures for lymphatic, hematopoietic, and other neoplasms
690	Acute leukemia
691	Lymphoma, myeloma, and nonacute leukemia
692	Radiotherapy
693	Chemotherapy
694	Lymphatic and other malignancies and neoplasms of uncertain behavior
Reproductive service (medical)	
531	Female reproductive system infections
532	Menstrual and other female reproductive system disorders
560	Vaginal delivery
561	Postpartum and postabortion diagnoses without procedure
565	False labor
566	Other antepartum diagnoses
Orthopedics (medical)	
340	Fracture of femur
341	Fracture of pelvis or dislocation of hip
342	Fractures and dislocations except femur, pelvis, and back
347	Other back and neck disorders, fractures and injuries
349	Malfunction, reaction and comp of orthopedic device or procedure
351	Other musculoskeletal system and connective tissue diagnoses
Solid organ transplant (surgical)	
1	Liver transplant and/or intestinal transplant
2	Heart and/or lung transplant
6	Pancreas transplant
440	Kidney transplant

SUPPLEMENTAL TABLE 1 Continued

Individual Service Lines and APR-DRG	APR-DRG Title Version 30
Ophthalmology (surgical)	
80	Acute major eye infections
82	Eye disorders except major infections
70	Orbital procedures
73	Eye procedures except orbit
Otolaryngology (surgical)	
5	Tracheostomy with MV 96+ h without extensive procedure
90	Major larynx and trachea procedures
91	Other major head and neck procedures
93	Sinus and mastoid procedures
95	Cleft lip and palate repair
97	Tonsil and adenoid procedures
98	Other ear, nose, mouth, and throat procedures
404	Thyroid, parathyroid, and thyroglossal procedures
Infectious disease (surgical)	
710	Infectious and parasitic diseases, including HIV with OR procedure
711	Postoperative, posttrauma, other device infections with OR procedure
Excluded (other medical)	
380	Skin ulcers
423	Inborn errors of metabolism
811	Allergic reactions
813	Other complications of treatment
861	Signs, symptoms, and other factors influencing health status
862	Other aftercare and convalescence
955	Principal diagnosis invalid as discharge diagnosis

D&C, dilation and curettage; MV, mechanical ventilation; OR, operating room.

SUPPLEMENTAL TABLE 2 Children's Hospital Discharge Demographics and Clinical Characteristics from 2010 to 2017

	Values
No. discharges	3 485 181
Hospital discharges in 2017, median (IQR)	10 235 (8001–13 975)
Encounter type, <i>n</i> (%)	
Medical	2 635 912 (75.6)
Surgical	849 269 (24.4)
Age, <i>n</i> (%), <i>y</i>	
<1	883 758 (25.4)
1–4	837 622 (24)
5–9	592 893 (17)
10–18	1 053 953 (30.2)
>18	116 955 (3.4)
Sex, <i>n</i> (%)	
Male	1 875 650 (53.8)
Female	1 608 980 (46.2)
Race, <i>n</i> (%)	
Non-Hispanic white	1 671 197 (48)
Non-Hispanic Black	634 173 (18.2)
Hispanic	727 782 (20.9)
Asian American	105 496 (3)
Other	346 533 (9.9)
Payer, <i>n</i> (%)	
Government	1 976 166 (56.7)
Private	1 387 214 (39.8)
Other	121 801 (3.5)
Any complex chronic condition, <i>n</i> (%)	1 599 557 (45.9)

IQR, interquartile range.

SUPPLEMENTAL TABLE 3 Growth from 2010 to 2017 by Service Line and Cost Category

	Total ^a	Pharmacy	Supplies	Imaging	Laboratory	Clinical	Room	Other	LOS
Aggregated medical service lines									
Mean baseline cost (2010)	\$7710	\$294	\$38	\$40	\$202	\$195	\$4303	\$112	2.9 d
Mean annual change	\$197	-\$4	-\$4	-\$2	\$1	\$3	\$136	\$2	0 d
<i>P</i>	<.0001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	.082
Oncology									
Mean baseline cost (2010)	\$13 014	\$2109	\$79	\$18	\$685	\$100	\$5936	\$42	3.7 d
Mean annual change	\$455	\$128	\$8	-\$1	\$0	\$5	\$126	-\$1	-0.02 d
<i>P</i>	<.0001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	.890	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b
Reproductive service (medical)									
Mean baseline cost (2010)	\$5863	\$341	\$25	\$41	\$308	\$78	\$3011	\$239	2.2 d
Mean annual change	\$165	\$2	\$3%	\$1	-\$4	-\$1	\$51	\$17	-0.02 d
<i>P</i>	<.0001 ^b	.510	<.001 ^b	.160	.060	.110	<.001 ^b	<.001 ^b	<.001 ^b
Orthopedics (medical)									
Mean baseline cost (2010)	\$6176	\$168	\$39	\$215	\$74	\$110	\$2665	\$360	2.0 d
Mean annual change	\$159	\$0	-\$4	-\$10	\$4	-\$2	\$98	\$10	0 d
<i>P</i>	<.0001 ^b	.300	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	.250
Aggregated surgical service lines									
Mean baseline cost (2010)	\$17 921	\$885	\$1008	\$111	\$235	\$235	\$5822	\$3510	3.7 d
Mean annual change	\$491	\$26	-\$46	\$0	\$4	\$7	\$160	\$32	0 d
<i>P</i>	<.0001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	.092
Solid organ transplant									
Mean baseline cost (2010)	\$203 986	\$19 425	\$4117	\$2006	\$10 462	\$71 860	\$37 286	\$8583	19 d
Mean annual change	\$7457	\$237	-\$186	\$8	-\$38	\$4517	\$282	\$217	-0.23 d
<i>P</i>	<.0001 ^b	<.001 ^b	<.001 ^b	.530	.330	<.001 ^b	.040	<.001 ^b	<.001 ^b
Ophthalmology (surgical)									
Mean baseline cost (2010)	\$10 327	\$602	\$288	\$21	\$46	\$46	\$3454	\$3053	2.4 d
Mean annual change	\$341	\$26	-\$11	\$1	\$4	\$2	\$159	\$10	0.02 d
<i>P</i>	<.0001 ^b	<.001 ^b	<.001 ^b	.070	<.001 ^b	.090	<.001 ^b	.550	.120
Otolaryngology (surgical)									
Mean baseline cost (2010)	\$8561	\$403	\$219	\$7	\$41	\$48	\$3185	\$2381	2.1 d
Mean annual change	\$246	\$8	-\$13	\$0	\$0	\$0	\$125	\$77	0.00 d
<i>P</i>	<.0001 ^b	<.001 ^b	<.001 ^b	<.001 ^b	.730	.600	<.001 ^b	<.001 ^b	.640

^a Total costs and each cost category was modeled independently. Therefore, the sum of the mean annual change of costs categories may not sum to the mean total annual change.

^b Statistically significant.