

**Appendix Table 4.** The top 5 indications for readmission by infection type for children with and without medical complexity. For simplicity, data are presented as the number of and percentage of readmissions by infection type for the top 10 infections that contributed the greatest number of readmissions overall (i.e., regardless of medical complexity).

Type of Infection	Non-Complex Children		Complex Children			
	Readmission Indication	N	%	Readmission Indication	N	%
Pneumonia	Pneumonia	584	38.2	Pneumonia	397	23.2
	Asthma	306	20.1	Respiratory insufficiency or failure	165	9.6
	Bronchiolitis	187	12.2	Upper respiratory tract infection	120	7.0
	Upper respiratory tract infection	40	2.6	Aspiration pneumonia	109	6.4
	Pleurisy, pneumothorax, or pulmonary collapse	35	2.3	Epilepsy	95	5.6
Bronchiolitis	Bronchiolitis	914	45.0	Bronchiolitis	374	32.1
	Pneumonia	288	14.2	Pneumonia	108	9.2
	Asthma	141	6.9	Respiratory insufficiency or failure	85	7.3
	Upper respiratory tract infection	89	4.4	Upper respiratory tract infection	69	5.9
	Other lower respiratory disease	72	3.5	Fluid and electrolyte disorders	64	5.5
Upper respiratory tract infection	Upper respiratory tract infection	148	25.3	Upper respiratory tract infection	224	18.9
	Bronchiolitis	72	12.3	Respiratory insufficiency or failure	110	9.3
	Pneumonia	39	6.6	Other lower respiratory disease	86	7.3
	Other lower respiratory disease	38	6.5	Bronchiolitis	79	6.6
	Respiratory insufficiency or failure	29	5.0	Complication of device, implant, or graft	66	5.6
Appendicitis	Complications of surgical procedures or medical care	565	35.2	Complications of surgical procedures or medical care	27	18.6
	Appendicitis	240	14.9	Intestinal obstruction	18	12.6
	Peritonitis	179	11.1	Other gastrointestinal disorders	12	8.4
	Intestinal obstruction	151	9.4	Regional enteritis and ulcerative colitis	11	7.3
	Abdominal pain	97	6.0	Intestinal infection	10	7.1
Urinary tract infection	Urinary tract infections	256	49.8	Urinary tract infection	310	40.4
	Other diseases of kidney and ureters	20	3.8	Epilepsy	49	6.4
	Viral infection	19	3.6	Complication of device, implant, or graft	45	5.8
	Septicemia	14	2.7	Upper respiratory tract infection	43	5.6
	Bronchiolitis	13	2.6	Genitourinary congenital anomalies	40	5.3
Septicemia	Septicemia	49	11.2	Septicemia	50	8.0
	Other perinatal conditions	38	8.7	Complication of device, implant, or graft	49	7.9
	Complication of device, implant, or graft	34	7.9	Upper respiratory tract infection	43	6.8
	Urinary tract infection	32	7.4	Pneumonia	37	5.9
	Meningitis	31	7.0	Respiratory insufficiency or failure	36	5.8
Intestinal infection	Intestinal infection	100	22.6	Intestinal infection	80	17.1
	Noninfectious gastroenteritis	47	10.7	Complication of device, implant, or graft	43	9.2
	Fluid and electrolyte disorders	25	5.7	Regional enteritis and ulcerative colitis	41	8.7
	Deficiency and other anemia	21	4.6	Urinary tract infection	24	5.2
	Fever of unknown origin	20	4.6	Fluid and electrolyte disorders	24	5.2
Skin and subcutaneous tissue infection	Skin and subcutaneous tissue infection	348	52.8	Skin and subcutaneous tissue infection	50	34.7
	Viral infection	23	3.5	Complications of surgical procedures or medical care	14	9.7

	Lymphadenitis	23	3.5	Paralysis	5	3.7
	Bronchiolitis	22	3.3	Acute and unspecified renal failure	5	3.7
	Asthma	19	2.9	Respiratory insufficiency or failure	5	3.4
Viral infection	Viral infection	100	24.5	Complication of device, implant, or graft	49	12.3
	Bronchiolitis	66	16.3	Pneumonia	43	10.9
	Fever of unknown origin	26	6.5	Bronchiolitis	41	10.5
	Esophageal disorders	17	4.2	Viral infection	24	6.1
	Septicemia	15	3.7	Other perinatal conditions	22	5.7
Aspiration pneumonia	Other lower respiratory disease	7	23.3	Aspiration pneumonia	177	26.3
	Hereditary and degenerative nervous system condition	7	20.8	Pneumonia	56	8.4
	Other gastrointestinal disorders	5	17.0	Epilepsy	56	8.4
	Asthma	3	8.8	Upper respiratory tract infection	52	7.7
	Pneumonia	2	7.6	Respiratory insufficiency or failure	45	6.7