Supplementary Table 5: Most frequently used antibiotic combinations overall and by service line among children admitted to one of 51 PHIS hospitals on a study date, 2017-2018

All Encounters			Medical Encounters			Surgical Encounters		
Rank	**Antibiotic Combination**	**n (%*)**	**Rank**	**Antibiotic Combination**	**n (%*)**	**Rank**	**Antibiotic Combination**	**n (%*)**
1	Ampicillin, Gentamicin	745 (9.7%)	1	Ampicillin, Gentamicin	557 (14.7%)	1	Ceftriaxone, Metronidazole	232 (5.9%)
2	Cefepime, Vancomycin	341 (4.4%)	2	Ceftriaxone, Vancomycin	184 (4.8%)	2	Cefepime, Vancomycin	207 (5.3%)
3	Piperacillin/tazobactam, Vancomycin	297 (3.8%)	3	Cefepime, Vancomycin	134 (3.5%)	3	Ampicillin, Gentamicin	188 (4.8%)
4	Ceftriaxone, Metronidazole	295 (3.8%)	4	Ceftriaxone, Clindamycin	120 (3.2%)	4	Piperacillin/tazobactam, Vancomycin	185 (4.7%)
5	Ceftriaxone, Vancomycin	262 (3.4%)	5	Piperacillin/tazobactam, Vancomycin	112 (2.9%)	5	Bacitracin, Cefazolin	144 (3.7%)
6	Ceftriaxone, Clindamycin	180 (2.3%)	6	Azithromycin, Ceftriaxone	87 (2.3%)	6	Meropenem, Vancomycin	97 (2.5%)
7	Bacitracin, Cefazolin	153 (2%)	7	Ampicillin, Cefotaxime	83 (2.2%)	7	Ceftriaxone, Vancomycin	78 (2%)
8	Meropenem, Vancomycin	134 (1.7%)	8	Ampicillin, Ceftazidime	65 (1.7%)	8	Cefazolin, Vancomycin	77 (2%)
9	Ampicillin, Cefotaxime	101 (1.3%)	9	Ceftriaxone, Metronidazole	63 (1.7%)	9	Ceftriaxone, Clindamycin	60 (1.5%)
10	Azithromycin, Ceftriaxone	95 (1.2%)	10	Cefepime, Sulfamethoxazole/trimethoprim	45 (1.2%)	10	Gentamicin, Vancomycin	56 (1.4%)

* Denominator excludes patients receiving only one antibiotic during their hospitalization