

5.4.4 [If risk/case-mix factors are addressed by any method (5.4.1)] Risk/Case-Mix Adjustment Modeling and/or Stratification Results*

Table1: CAUTI Acute Care Hospitals (ACH)

Parameter (Variable Name)	Parameter Level	Description	Parameter Estimate	P-Value
Intercept			-10.2778	<0.001
Location Groups (LOCCDC_grp)	CC GROUP 1	Inpatient locations in any of the following: 1) Burn Critical Care 2) Pediatric Medical Critical Care 3) Pediatric Surgical Critical Care	3.3086	<0.001
	CC GROUP 2	Inpatient locations in any of the following: 1) Pediatric Burn Critical Care 2) Pediatric Medical-Surgical Critical Care 3) Neurosurgical Critical Care 4) ONC Pediatric Critical Care 5) Pediatric Trauma Critical Care	2.9823	<0.001
	CC GROUP 3	Inpatient locations in any of the following: 1) Pediatric Surgical Cardiothoracic Critical Care 2) Neurologic Critical Care 3) Trauma Critical Care	2.8105	<0.001
	CC GROUP 4	Inpatient locations in any of the following: 1) Medical Cardiac Critical Care 2) Medical Critical Care 3) Medical-Surgical Critical Care 4) Onsite Overflow Critical Care 5) Oncology Medical Critical Care 6) Oncology Medical-Surgical Critical Care 7) Oncology Surgical Critical Care 8) Prenatal Critical Care 9) Respiratory Critical Care 10) Surgical Critical Care	2.4744	<0.001
	CC:CT	Inpatient locations in any of the following: 1) Surgical Cardiothoracic Critical Care	2.1594	<0.001
	STEP	Inpatient locations in any of the following: 1) Adult Step-Down Unit 2) Special Care Nursery (Level II) 3) Oncology Step-Down Unit 4) Pediatric Step-Down Unit	2.6617	<0.001
	WARD GROUP 1	Inpatient locations in any of the following: 1) Burn Ward 2) Pediatric Medical Ward 3) Neurology Ward 4) Neurosurgical Ward 5) Onsite Overflow Ward 6) Pediatric Oncology General Hematology-Oncology Ward 7) Oncology Hematopoietic Stem Cell Transplant Ward 8) Pediatric Oncology Hematopoietic Stem Cell Transplant Ward 9) Oncology Leukemia Ward 10) Oncology Lymphoma Ward 11) Rehabilitation Ward (within Hospital) 12) Stroke (Acute) Ward 13) Orthopedic Trauma Ward	3.0615	<0.001
	WARD GROUP 2	Inpatient locations in any of the following: 1) Oncology Mixed Acuity Unit (all ages) 2) Dialysis Specialty Care Area 3) Gerontology Ward 4) Jail Unit	2.7991	<0.001

		5) Oncology General Hematology-Oncology Ward 6) Pulmonary Ward		
	WARD GROUP 3	Inpatient locations in any of the following: 1) Adult Mixed Acuity Unit 2) Medical Ward 3) Oncology Solid Tumor Ward	2.6868	<0.001
	WARD GROUP 4	Inpatient locations in any of the following: 1) Pediatric Mixed Acuity Unit 2) Gastrointestinal Ward 3) Telemetry Ward 4) Vascular Surgery Ward	2.6006	<0.001
	WARD GROUP 5	Inpatient locations in any of the following: 1) Mixed Age Mixed Acuity Unit 2) Solid Organ Transplant Specialty Care Area 3) Pediatric Solid Organ Transplant Specialty Care Area 4) Pediatric Burn Ward 5) Behavioral Health/Psych Ward 6) Adolescent Behavioral Health Ward 7) Pediatric Behavioral Health Ward 8) Ear, Nose, Throat Ward 9) Pediatric Genitourinary Ward 10) Medical-Surgical Ward 11) Pediatric Medical-Surgical Ward 12) Pediatric Neurology Ward 13) Pediatric Neurosurgical Ward 14) Well Newborn-- Nursery (Level I) 15) Orthopedic Ward 16) Pediatric Orthopedic Ward 17) Plastic Surgery Ward 18) Pediatric Rehabilitation Ward (within Hospital) 19) Surgical Ward	2.4987	<0.001
	WARD GROUP 6	Inpatient locations in any of the following: 1) Genitourinary Ward 2) Gynecology Ward 3) Pediatric Surgical Ward	2.0046	<0.001
	WARD GROUP 7	Inpatient locations in any of the following: 1) Antenatal Care Ward 2) Labor and Delivery Ward 3) Labor, Delivery, Recovery, Postpartum Suite 4) Postpartum Ward	Ref	Ref
Number of Hospital Beds Groupings (numBeds_grp)	68<=numBeds<177	Number of Beds 68 - <177	0.2577	<0.001
	177<=numBeds<421	Number of Beds 177 - <421	0.3347	<0.001
	numBeds>=421	Number of Beds ≥421	0.4996	<0.001
	1<=numBeds<68	Number of Beds 1-<68	Ref	Ref
Medical Type Groups (medType2_grp)	M	Hospital Medical Affiliation Type in any 1) Major Medical	0.2244	<.0001
	U/N/G	Hospital Medical Affiliation Type in any 1) Undergraduate Teaching 2) Graduate Teaching 3) Non-Teaching	REF	REF
Average Length of Stay in Days (avgLOS_grp)	5.7<=avgLOS<6.6	Average LOS 5.7-<6.6	0.0581	0.012
	avgLOS>=6.6	Average LOS ≥6.6	0.1833	<0.001
	1<=avgLOS<5.7	Average LOS 1-<5.7	REF	.
Proportion of ICU Beds Group (propICU_grp)	propICU>=0.141	Proportion of ICU Beds ≥ 0.141	0.0677	<0.001
	0<=propICU<0.141	Proportion of ICU Beds < 0.141	REF	REF

Table2: CAUTI Critical Access Hospitals (CAH)

Parameter (Variable Name)	Parameter Level	Description	Parameter Estimate	P-Value
Intercept			-9.0295	<.0001
Length of Stay Groupings (los_decilegp)	LOS >=6.5	Average LOS >= 6.5	0.7592	<0.001
	1<=LOS<6.5	Average LOS 1 - < 6.5	Ref	Ref
Proportion of ICU Beds Group (propICU_grp)	propICU>=0.16	Proportion of ICU Beds ≥ 0.16	REF	REF
	0<=propICU<0.16	Proportion of ICU Beds < 0.16	0.4189	0.014

Table3: CAUTI Inpatient Rehabilitation Facility (IRF)

Parameter (Variable Name)	Parameter Level	Description	Parameter Estimate	P-Value
Intercept			-7.0380	<0.001
Proportion of admissions with other neurologic conditions group (PropnOthNeuro_grp)	0 <= PropnOthNeuro < 0.150	Proportion of Other Neuro Admissions <0.150	0.3583	<0.001
	0.150 <= PropnOthNeuro	Proportion of Other Neuro Admissions >=0.150	Ref	Ref
Facility Type Groups (facType_grp)	CAH, CHLD, GEN, ORTHO, SURG	Facility Type in Any 1) CAH 2) Children's 3) General 4) Ortho 5) Surgery	0.4051	<0.001
	LTAC, REHAB	Facility Type in Any 1) LTAC 2) REHAB	Ref	Ref
Proportion of admissions with stroke (pStrokeAdm_grp)	0<=pStroke<0.250	Proportion of Stroke admissions <0.250	Ref	Ref
	pStroke>=0.250	Proportion of Stroke admissions >=0.250	0.2143	0.006
Proportion of admissions with non-traumatic spinal cord dysfunction group (PropnNonTraSCDys_grp)	0.064 <= PropnNonTraSCDys	Proportion of non-traumatic spinal cord dysfunction admissions >=0.064	0.3165	<0.001
	0 <= PropnNonTraSCDys < 0.064	Proportion of non-traumatic spinal cord dysfunction admissions <0.064	Ref	Ref
Proportion of admissions with brain dysfunction (PropnBrainDys_grp)	0.123 <= PropnBrainDys	Proportion of brain dysfunction admissions >=0.123	0.2074	0.004
	0 <= PropnBrainDys < 0.123	Proportion of brain dysfunction admissions <0.123	Ref	Ref

Table4: CAUTI Long-Term Acute Care Facility (LTAC)

Parameter (Variable Name)	Parameter Level	Description	Parameter Estimate	P-Value
Intercept			-7.8086	<0.001
Proportion of ICU Beds Group (propICU_grp)	propICU>=0.103	Proportion of ICU Beds ≥ 0.103	REF	REF
	0<=propICU<0.103	Proportion of ICU Beds < 0.103	0.3579	0.001
Length of Stay Groupings (AvgLOS_grp)	22.2<=LOS<27.8	Average LOS 22.2 - < 27.8	0.5783	0.006
	LOS >=27.8	Average LOS >= 27.8	1.1001	<0.001
	1<=LOS<22.2	Average LOS 1 - < 22.2	Ref	Ref