SUPPLEMENT

Appendix A: Description of ICD9 Codes used to define etiologies, complications and procedures

	procedures		
	ICD9 Codes	% of Decompensated Cirrhosis Group	% of Compensated Cirrhosis Group
	Etiology		
Hepatitis C	070.41, 070.44, 070.51, 070.54, 070.70, 070.71, V0262	28.20%	33.28%
ALD	571.0, 571.1,571.1, 571.3	51.24%	37.40%
	070.20, 070.21, 070.22, 070.23, 070.30,	2.75%	3.10%
Hepatitis B	070.31, 070.32, 070.33, V0261		
NOS	571.40, 571.41, 571.49, 571.5, 571.9	26.07%	31.57%
Other	571.42, 571.6, 576.1, 275.1, 573.0, 275.01, 273.4, 571.8	48.62%	60.27%
	Procedures		
Liver Biopsy	50.11, 50.12, 50.13	2.19%	2.20%
Upper Gastroinstestinal endoscopy	45.13, 45.14, 45.16, 42.23, 42.24, 44.13, 44.14	17.20%	6.72%
Variceal Ligation and/or sclerotherapy	42.91, 42.33	8.39%	0.36%
Insertion of Sengstaken tube /esophageal tamponade	96.06	0.06%	0%
Paracentesis	54.91	31.85%	2.29%
Thoracentesis	34.91, 34.04, 34.09	3.61%	2.27%
Transjugular Intrahepatic Portosystemic shunt	39.1	1.52%	0.01%
Mechanical ventilation beyond 96 hours	96.71, 96.70, 96.72	6.45%	4.12%
Hemodialysis	39.55	5.08%	4.03%
Orthotopic Liver Transplant	50.5	0%	0%
Red Blood Cell Transfusion	99.04	24.13%	11.52%
Platelets Transfusion	99.05	5.73%	2.88%
FFP Transfusion	99.07	9.76%	3.10%
	Procedure Group (Included in Regress	sion Analysis)	
Varices Treatment	Includes Upper Gastrointestinal endoscopy, Variceal Ligation and/or sclerotherapy and Insertion of Sengstaken tube /esophageal tamponade	24.03%	6.98%
Fluid Removal	Includes Paracentesis and Thoracentesis	34.20%	4.44%
Non-RBC Transfuse	Includes Platelets Transfusion and FFP Transfusion	12.66%	4.99%
	Complications		
Portal Hypertension	572.3, 789.59, 289.53, 289.51, 287.4, 287.49 287.5, 456.0,456.20, 456.1, 456.21, 456.8, 455.0	9,89.15%	27.74%
Ascites	789.59	56.97%	0%
Splenomegaly	289.53, 289.51	0.40%	0.20%
Thrombocytopenia	287.4, 287.49, 287.5	28.65%	22.52%
Hyponatremia	276.1	19.54%	12.37%

Varices with Bleeding	456.0, 456.20	10.53%	0%
Varices without Bleeding	456.1, 456.21, 456.8, 455.0	22.37%	7.32%
Non-PHTN GI Bleeding	535.31, 569.3, 578.0, 455.2, 455.5, 455.4, 455.1, 455.6, 459.0, 287.8, 285.1, 280.0	25.08%	7.53%
Spontaneous bacterial peritonitis	567.23	4.04%	0.59%
Hepatorenal syndrome	572.4	5.82%	0%
Hepatic Encephalopathy	348.31, 348.30, 348.39, 572.2	32.38%	3.58%
Malnutrition	273.8, 262.0, 263.0, 783.21, 783.7	5.46%	3.86%
Hepatocellular Carcinoma	155.0	5.28%	4.38%
Hepatopulmonary Syndrome	573.5	0.13%	0.07%
Acute Renal Injury	584.9, 584.6, 584.7	20.19%	12.46%
Infection	590.10, 590.11, 595.0, 597.0, 599.0, 590.80, 590.81, 008.45, 112.2x, 590.2x, 590.3x, 480.x-485.x, 487.x, 488.x, 680.x-682.x, 684.x, 686.x	18.73%	20.23%

Appendix B: Primary Diagnosis Codes by organ system in each study group[†]

Diagnosis	DC (Group	CC	Group	NIS withou	ut cirrhosis
Liver	ICD-9 Code‡	Prevalence (%)	ICD-9 Code‡	Prevalence(%)	ICD-9 Code‡	Prevalence(%)
Cirrhosis	571.2, 571.5	25.1	571.2, 571.5	4.5		
Viral Hepatitis	70.44, 70.71	4.6	70.71, 70.44	3.8		
Alcoholic CLD	571.1	1.0				
Other CLD	572.8	1.5				
Primary Liver Cancers	155.0	1.6	155.0	1.6		
Varices w or w/o bleeding	578.0	1.8				
Portal HTN						
Ascites	789.59	1.2				
Encephalopathy	572.2	12.9				
Hepatorenal Syndrome						
Hepatopulmonary syndrome						
Thrombocytopenia						
SBP	567.23	1.4				
Complication liver transplant						
Complication liver biopsy						
Pleural Effusion	511.9	1.0				
Cardiovascular						
Congestive Heart Failure	428.0	1.5	428.0	3.0	428.0	2.8
Arrhythmia			427.31	1.4	427.31	2.2
MI/CAD (atherosclerosis)			414.01	1.5	414.01, 410.71	4.3
Other Cardiac (Chest pain, HTN, aneurysm, syncope)			786.59	2.3	786.59	3.3
Pulmonary				·		
Asthma, COPD			493.22	1.2	493.22	1.4
Respiratory failure			518.81	1.1	518.81	1.1
Pulmonary Embolism					415.9	1.0

Gastrointestinal						
GI bleed (non-portal hypertensive)	578.9	6.2	531.40	2.8	578.9	1.0
Other GI (Abdominal pain, Pancreatitis, biliary system, hemorrhoids, small bowel obstruction, diverticulosis, appendicitis)	577.0	4.1	577.0	8.3	577.0	5.0
Infections						
Pneunomia	486.x	1.6	486.x, 491.21	4.4	486.x, 491.21	4.6
Urinary Tract Infection			599.0, 590.80, 590.10	1.5	599.0	1.6
Septicemia	03.89	3.7	03.89	3.7	03.89	2.2
Other Infections (cellulitis, colitis, HIV, abscess, endocarditis, Gangrene, venous insufficiency of legs) Renal	682.6	1.6	682.6	4.9	682.6	2.8
Acute Renal Failure	584.9	2.0	584.9	1.9	584.9	1.2
Electrolytes abnormalities (including hyponatremia)	276.1	1.1	276.1	2.0		
Psychiatry						
Alcohol-related disorders (withdrawal, alcohol-related delirium, alcoholic intoxication, alcohol dependence)			291.81	4.0		
Mood disorders			296.33	1.8	295.70	3.3
Nervous system						
Stroke/TIA			434.91	1.2	434.91	1.7
Other Nervous system (Dementia, Alzheimer's, Syncope)			780.2	1.4	780.2	1.9
Hematology/Oncology						
Anemia			285.9	1.3		
Obstetrics-Gynecology						
Pregnancy related Complications					654.21, 664.11	9.2
Other						
Endocrine – Diabetes Mellitus, Morbid Obesity			250.80	1.9	278.01	1.5
Musculoskeletal – Rehabilitation care, Arthritis, Fractures			V57.89	2.9	715.36, V57.89	6.6

[†]ICD 9 Codes listed in the DX1 position in years 2008-2011 were included for analysis if prevalence ≥ 0.1%. Codes were grouped based on organ system and clinical disease state through manual review. Groups of codes with ≥ 1% prevalence in dataset are listed.

[‡]Only ICD9 codes with ≥ 1% prevalence are listed; if a group had no individual code ≥ 1% in a category, the code with highest prevalence is listed.

Appendix C: Description of classes of Co-morbidities

Comorbidity Class	Comorbidity Indicator Variables	% of Decompensated Cirrhosis	% of compensated cirrhosis	% of All NIS w/o cirrhosis
Heart	Congestive Heart Failure	8.99%	10.32%	7.79%
Heart	Valvular Disease	2.60%	3.17%	2.94%
Heart	Pulmonary Circulation Disease	2.66%	2.77%	1.74%
Heart	Peripheral Vascular Disease	2.70%	4.47%	5.01%
Hypertension	Hypertension	38.56%	49.98%	46.61%
NeuroPara	Paralysis	0.86%	1.58%	2.32%
NeuroPara	Other Neurological Disorders	5.88%	8.26%	6.80%
Chrnlung	Chronic Pulmonary Disease	14.86%	22.11%	16.93%
Diabetes	Diabetes without Complications	25.17%	26.65%	17.70%
Diabetes	Diabetes with Complications	4.71%	5.71%	4.06%
NI in Regression [†]	Hypothyroidism	8.84%	10.68%	10.18%
LytesRenl	Renal Failure	15.94%	13.40%	10.36%
NI in	Liver Disease	55.07%	89.74%	1.51%
Regression [†]		33.07%	69./470	1.3170
NI in	Peptic Ulcer Disease x			
Regression [†]	Bleeding	0.07%	0.06%	0.03%
NI in	Acquired Immunodeficiency			
Regression [†]	Syndrome	0.67%	0.90%	0.23%
Cancer	Lymphoma	0.64%	0.74%	0.75%
Cancer	Metastatic Cancer	1.48%	1.89%	2.12%
Cancer	Solid Tumor without Metastasis	4.63%	3.73%	1.88%
NI in Regression [†]	Rheumatoid Arthritis/Collagen vascular disease	1.57%	2.63%	2.42%
NI in	Coagulopathy			
Regression [†]		37.51%	25.53%	3.56%
NI in Regression [†]	Obesity	6.94%	9.09%	9.95%
NI in	Weight Loss			
Regression [†]		11.18%	7.05%	4.00%
LytesRenl	Fluid & Electrolyte Disorders	42.64%	32.67%	20.74%
Anemia	Chronic Blood Loss Anemia	4.10%	1.42%	2.33%
Anemia	Deficiency Anemias	27.08%	22.19%	14.73%
AlcDrug	Alcohol Abuse	40.32%	31.25%	3.75%
AlcDrug	Drug Abuse	6.11%	8.89%	3.91%
Mental	Psychoses	4.58%	7.04%	4.23%
Mental	Depression	8.87%	12.22%	9.44%

[†]These comorbidities were not included in regression analysis.

Supplement D: Specific Outcome Measures by Group with Pregnancy Excluded

Outcome Variable	Decompensated Cirrhosis	Compensated Cirrhosis	All NIS w/o cirrhosis	NIS w/o cirrhosis and pregnancy complication*
No. of admissions (2014)	334,370.1	236,360.1	29,181,233.8	26,116,013.8
Percentage Increase in no. of admissions between 2008-2014	35.89%	24.22%	-7.72%	-7.73%
Total cost of hospitalization (2014)	\$4,570,431,130	\$2,801,813,569	\$333,194,350,525	\$319,834,050,612
Percentage Increase in total cost of admissions between 2008-2014	33.4%	25.33%	3.98%	3.93%
Median Cost per Admission (IQR) [†]	\$8,596 (\$9,633)	\$7,738 (\$8,998)	\$7,141 (\$9,137)	\$7,869.55
Medicare (IQR) [†]	\$8,618 (\$9,586)	\$7,922(\$9,028)	\$8,183(9,714)	\$8,193.11
Medicaid (IQR) †	\$8,801(\$10,568)	\$7,266(\$8,625)	\$5,073(\$6,023)	\$6,192.40
Private Pay (IQR) †	\$9,086(\$11,179)	\$7,962(\$9,881)	\$6,535(\$8,651)	\$7,724.98
Median Length of Stay (Q1-Q3)	4 (2-7)	4 (2-6)	3 (2-5)	3 (2-6)
In-hospital Mortality [‡]	6.66%	3.37%	2.13%	2.38%

^{*}Admissions where primary diagnosis was pregnancy or its complications were excluded.

Median cost calculated for all years (2008-2014) combined and adjusted to 2014 dollars. IQR =Interquartile Range *Percent died prior to discharge

Supplement E: Demographics of patients admitted 2008-2014 with pregnancy excluded[†]

Mean Age, years (SD) 58.3 (12.1) 18-44 10.5% 45-64 61.4% 65-84 26.0% 85+ 2.1% Male 62.5% Race White Black 8.8% Hispanic 16.7% Asian or Pacific Islander 1.8% Native American 1.3% Other 2.9% Missing 7.9% Median Income by Patient Zip Code‡ 2 Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicaid 23.0% Private/HMO 22.3% Origin of Admission 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient Home 58.3%) 59.3 (12.6) 9.9% 58.7% 28.5% 2.9% 58.9% 60.6% 11.4% 1.4% 1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	57.2 (20.8) 29.8% 28.7% 31.8% 9.7% 40.1% 61.7% 13.1% 9.3% 2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	60.5 (19.3) 21.9% 31.9% 35.4% 10.8% 44.6% 63.4% 13.1% 8.1% 1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
18-44 10.5% 45-64 61.4% 65-84 26.0% 85+ 2.1% Male 62.5% Race White 60.6% Black 8.8% Hispanic 16.7% Asian or Pacific Islander 1.8% Native American 1.3% Other 2.9% Median Income by Patient Zip Code‡ Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	9.9% 58.7% 28.5% 2.9% 58.9% 60.6% 11.4% 14.4% 1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	29.8% 28.7% 31.8% 9.7% 40.1% 61.7% 13.1% 9.3% 2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	31.9% 35.4% 10.8% 44.6% 63.4% 13.1% 8.1% 1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
65-84 26.0% 85+ 2.1% Male 62.5% Race	28.5% 2.9% 58.9% 60.6% 11.4% 14.4% 1.8% 1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	31.8% 9.7% 40.1% 61.7% 13.1% 9.3% 2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	35.4% 10.8% 44.6% 63.4% 13.1% 8.1% 1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
85+ 2.1% Male 62.5% Race 60.6% Black 8.8% Hispanic 16.7% Asian or Pacific Islander 1.8% Native American 1.3% Other 2.9% Missing 7.9% Median Income by Patient Zip Code [‡] 2 Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicaid 23.0% Private/HMO 22.3% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient 6.8%	2.9% 58.9% 60.6% 11.4% 14.4% 1.8% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	9.7% 40.1% 61.7% 13.1% 9.3% 2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	10.8% 44.6% 63.4% 13.1% 8.1% 1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
Male 62.5% Race White 60.6% Black 8.8% Hispanic 16.7% Asian or Pacific Islander 1.8% Native American 1.3% Other 2.9% Missing 7.9% Median Income by Patient Zip Code [‡] 20 Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicaid 23.0% Private/HMO 22.3% Origin of Admission 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	58.9% 60.6% 11.4% 14.4% 1.8% 1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	40.1% 61.7% 13.1% 9.3% 2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	44.6% 63.4% 13.1% 8.1% 1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
Race 60.6% Black 8.8% Hispanic 16.7% Asian or Pacific Islander 1.8% Native American 1.3% Other 2.9% Missing 7.9% Median Income by Patient Zip Code [‡] 2.9% Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	60.6% 11.4% 14.4% 1.8% 1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	61.7% 13.1% 9.3% 2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	63.4% 13.1% 8.1% 1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
White 60.6% Black 8.8% Hispanic 16.7% Asian or Pacific Islander 1.8% Native American 1.3% Other 2.9% Missing 7.9% Median Income by Patient Zip Code [‡] 2 Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	11.4% 14.4% 1.8% 1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	13.1% 9.3% 2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	13.1% 8.1% 1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
Black 8.8% Hispanic 16.7% Asian or Pacific Islander 1.8% Native American 1.3% Other 2.9% Missing 7.9% Median Income by Patient Zip Code [‡] Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	11.4% 14.4% 1.8% 1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	13.1% 9.3% 2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	13.1% 8.1% 1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
Hispanic 16.7% Asian or Pacific Islander 1.8% Native American 1.3% Other 2.9% Missing 7.9% Median Income by Patient Zip Code [‡] Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	14.4% 1.8% 1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	9.3% 2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	8.1% 1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
Asian or Pacific Islander 1.8% Native American 1.3% Other 2.9% Missing 7.9% Median Income by Patient Zip Code [‡] Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	1.8% 1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	2.2% 0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	1.9% 0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
Native American 1.3% Other 2.9% Missing 7.9% Median Income by Patient Zip Code [‡] 31.8% Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type Medicare Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	1.1% 2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	0.6% 2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	0.6% 2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
Other 2.9% Missing 7.9% Median Income by Patient Zip Code [‡] 1.8% Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	2.7% 7.9% 33.3% 25.4% 21.5% 16.1%	2.8% 10.4% 28.5% 25.7% 23.2% 20.2%	2.6% 10.3% 28.7% 25.7% 23.1% 20.0%
Missing 7.9% Median Income by Patient Zip Code [‡] 31.8% Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	7.9% 33.3% 25.4% 21.5% 16.1%	28.5% 25.7% 23.2% 20.2%	28.7% 25.7% 23.1% 20.0%
Median Income by Patient Zip Code [‡] Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	33.3% 25.4% 21.5% 16.1%	28.5% 25.7% 23.2% 20.2%	28.7% 25.7% 23.1% 20.0%
Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	25.4% 21.5% 16.1%	25.7% 23.2% 20.2%	25.7% 23.1% 20.0%
Quartile 1 (lowest income) 31.8% Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	25.4% 21.5% 16.1%	25.7% 23.2% 20.2%	25.7% 23.1% 20.0%
Quartile 2 25.7% Quartile 3 22.3% Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	21.5% 16.1%	23.2%	23.1% 20.0%
Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient 6.8%	16.1%	20.2%	20.0%
Quartile 4 (highest income) 16.9% Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient 6.8%	16.1%	20.2%	
Admissions by Payer Type 41.3% Medicare 41.3% Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	46.3%	45 5%	50.10/
Medicaid 23.0% Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	46.3%	45.5%	50.10/
Private/HMO 22.3% Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient			30.170
Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	22.1%	15.5%	12.4%
Other 13.2% Origin of Admission Emergency Department Transfer 6.8% Disposition of Patient	19.7%	29.7%	27.3%
Emergency Department Transfer 6.8% Disposition of Patient	11.6%	9.1%	5.9%
Transfer 6.8% Disposition of Patient			
Transfer 6.8% Disposition of Patient	74.2% 69.5%	53.5%	58.7%
1	5.3%	4.9%	5.3%
Home 58.3%			
	61.9%	66.8%	63.3%
Transfer to another hospital 3.8%	2.8%	2.1%	2.3%
Transfer to SNF, intermediate care or another facility	16.2%	15.6%	17.4%
Home Health Care 13.4%	13.0%	12.1%	13.3%
Teaching Hospital [§] 54.5%	53.2%	49.2%	51.0%
Rural Hospital 8.8%	9.7%	11.9%	12.0%
Hospital Region¶			
Northeast 18.5%	20.0%	19.6%	20.0%
Midwest 18.9%		23.0%	23.2%
South 38.9%	18.6%		38.6%
West 23.8%	18.6%	38.5%	

^{*}Admissions where primary diagnosis was pregnancy or its complications were excluded. †Mean and proportions presents in the table are weighted as per NIS discharges

^{*}Income by zip code included in each quartile varies by year. For dollar amounts included in each quartile each year, refer to http://www.hcupus.ahrq.gov/db/vars/zipinc_qrtl/nisnote.jsp

Sall rural hospitals are classified as non-teaching as per https://www.hcup-us.ahrq.gov/db/vars/nis_stratum/nisnote.jsp
For 2012-2014, NIS data includes divisions instead of regions. However, the 9 divisions in the data were grouped into regions as per https://www.hcup-us.ahrq.gov/db/vars/nis_stratum/nisnote.jsp us.ahrq.gov/db/vars/nis_stratum/nisnote.jsp