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Role of Behavioral Health Conditions in Avoidable Hospital Use and Cost

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Role of Behavioral Health Conditions in Avoidable Hospital Use and Cost

Sujoy Chakravarty, Ph.D., Joel C. Cantor, Sc.D., James T. Walkup, Ph.D., and Jian Tong, M.S.

Executive Summary

This report informs strategies to develop initiatives aimed at improving population health and decreasing avoidable hospitalizations and costs in New Jersey. Focusing on the role of behavioral health (BH) conditions in potentially avoidable hospital use and cost, this report builds on a series of publications supported by The Nicholson Foundation that examined opportunities provided by the Medicaid ACO Demonstration Program to improve health and lower costs in low-income New Jersey communities (Chakravarty, Cantor, and Tong 2014; Chakravarty et al. 2013).

We examine the presence of BH conditions among hospital patients that can exacerbate the adverse effects of chronic medical conditions leading to avoidable inpatient (IP) hospitalizations and Emergency Department (ED) visits. Specifically, we examine the presence of BH conditions including severe mental illness (SMI) among patients who are hospital high-users (4+ IP stays or 6+ ED visits over 2008-2011), and among avoidable/preventable IP hospitalizations and ED visits that can be prevented with adequate ambulatory care in the community. We use an enhanced version of New Jersey uniform billing hospital discharge dataset enabling us to follow patient utilization over time and identify high users of hospital resources. A higher prevalence of BH among hospital high-users, and avoidable hospitalizations would inform targeting of mental health and substance abuse services among these high-use, complex patients.

Overall, we found that patients who are high users of hospital care and those with avoidable/preventable IP hospital use are disproportionately affected by BH conditions, and that BH conditions are associated with a substantial share of hospital costs. We conclude that improved integration of BH services with medical services among complex patients can lead to lower avoidable hospital utilization and cost savings. Major findings include:

- BH conditions were disproportionately present on the billing records of IP high users compared to inpatients who were not high users (74.9% v. 32.3%).
 - This difference was higher among Medicaid beneficiaries (80.8% v. 25.1%).

- Among Medicaid beneficiaries, SMI was present in 44.4% of IP high users compared to 9.6% of IP non-high users.
- 40.1% of avoidable/preventable IP hospitalizations were associated with BH problems compared to 35.0% of non-avoidable hospitalizations.
 - The difference was higher for Medicaid beneficiaries (47.9% v. 34.2%).
- One or more BH diagnoses, based on billing records, were associated with 35.7% of all IP hospitalizations, 34.8% of all IP costs, 17.5% of all ED visits, and 20.8% of all ED costs.
- The records of 27.0% of patients with BH problems had at least one diagnosis of severe mentally illness as were 14.9% of ED patients.
 - For Medicaid-paid hospitalizations, prevalence of SMI among BH patients was substantially higher at 43.2% for inpatients, and 25.7% for ED patients.
- Annualized costs adjusted to 2011 dollars associated with BH diagnoses were very substantial:
 - Total IP costs associated with BH was \$880.1 million and corresponding ED costs were 73.1 million.
 - Out of IP high user costs amounting to \$1.2 billion, \$444.8 million (37.7%) was associated with BH conditions.
 - Out of ED high user costs amounting to \$143.1 million, \$38.3 million (26.7%) was associated with BH conditions.
 - Out of avoidable IP hospitalization costs amounting to \$331.4 million, \$122.6 million (37.0%) was associated with BH conditions.
 - Out of avoidable ED visit costs amounting to \$172.5 million, \$26.0 million (15.1%) was associated with BH conditions.
 - Among all IP hospitalizations, SMI-related costs at \$211.5 million accounted for 24.0% of IP BH costs while SMI-related ED costs at \$12.5 million accounted for 17.1% of ED BH costs.

Role of Behavioral Health Conditions in Avoidable Hospital Use and Cost

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Background

This report belongs to a series of studies (Chakravarty, Cantor, and Tong 2014; Chakravarty et al. 2013) that informs strategies to implement community-level care management initiatives aimed at improving population health and decreasing avoidable hospitalizations and costs in New Jersey. In our previous work, we had identified hospital inpatient (IP) and emergency department (ED) utilization that is likely to be preventable with adequate community-level care, and also characterized *high users* of hospital resources who make repeated visits over a period of time due to complex health problems and barriers to effective care. This current work focusses on one particular challenge to reducing such avoidable hospitalizations and costs, namely optimal management of comorbid behavioral health (BH) conditions that can exacerbate the effects of chronic medical conditions. To that intent, we examine the extent to which BH conditions play a role in avoidable hospital utilization patterns and costs. We calculate and report percentages of inpatient and ED *high users* who are diagnosed with BH conditions comprising mental health or substance abuse. We further examine the share of hospitalization stays, ED visits and corresponding costs that is associated with such conditions. Similarly, we calculate the share of avoidable/preventable inpatient hospitalizations and treat-and-release ED visits and related costs that is associated with BH conditions. Alongside presence of BH problems overall, we also focus on BH patients with a high level of functional impairment characterized as the severely mentally ill.

There is a growing recognition that integrated models coordinating provision of physical and behavioral healthcare may result in better outcomes for complex patients with multiple medical comorbidities and concomitant BH conditions. Consequently many health delivery systems have adopted care models promoting effective collaboration between provision of mental health, substance abuse and primary care services e.g., Integrated Behavioral Health Project (IBHP) in California (CalMHSA 2014), and the Screening, Brief Intervention, and Referral to Treatment (SBIRT) currently prevalent in 14 states that allow substance use screening and referral at a primary care setting (Regmi and Snyder 2014). Several new policies such as those related to Medicaid health homes (SAMHSA 2014) in the Affordable Care Act or Substance Abuse

and Mental Health Services Administration (SAMHSA) developed Primary and Behavioral Health Care Integration Program (PBHCI) seek to promote such integration.

Our analysis framed in the context of the New Jersey Medicaid ACO Demonstration Project effectively examines the relevance of such delivery system policies and care-management approaches in New Jersey, specifically among low income populations. It examines the extent to which BH conditions are present among patients who are frequent users of hospital resources, and separately, avoidable/preventable hospitalizations across 13 low income communities in New Jersey. A disproportionately higher proportion of BH conditions among patients with avoidable/preventable hospitalizations and/or hospital high use would guide efficient targeting of mental health and substance abuse services within these populations. It would also shed light on the need to restructure provider payment structure and incentives required for integrating physical and behavioral healthcare services.

Methods

Our data sources and methods for classifying avoidable/preventable hospitalizations and high hospital use are similar to those in our previous work (Chakravarty, Cantor, and Tong 2014; Chakravarty et al. 2013).

Data: We use New Jersey uniform billing (UB) data over the period 2008-2011 available from the state Department of Health (DOH). This hospital discharge-level database is the source of IP hospitalization and treat-and-release ED utilization by all adult (age 18 or older) hospital patients within our study areas. Each hospital record provides information on patient demographics (age, sex, race/ethnicity), expected primary and secondary source of payment (Medicare-Medicaid dual eligible, other Medicare, Medicaid, private insurance, self-pay/uninsured), clinical characteristics (primary and secondary diagnoses, procedures), patient residential zip code, time of discharge, hospital charges, and information on the admitting hospital. With the assistance of the DOH Center for Health Statistics, we enhanced the publicly releasable UB files to create a linked database that tracks patients over time. Starting from the discharge-level dataset, DOH used confidential patient identifiers to create a dataset that enables us to follow patients over our study period and calculate counts of hospital stays/visits over time for individual patients. The analysis on IP/ED high use was conducted with this dataset. We also received charity care information related to hospital discharges during 2008-2010 that allowed us to identify patients eligible for charity care within the self-pay/uninsured group in the public use dataset. As a result we are able to identify charity care patients separately from self-pay patients who were responsible for their cost of care.

Study Areas: Our study areas include three low-income communities of Camden, Trenton and Newark and 10 other low income communities that were estimated to have at least 5,000 Medicaid beneficiaries. (This threshold is the minimum number that would be required to form a Medicaid ACO under the NJ Medicaid ACO Demonstration Program.) These selected ACO communities shown in Appendices B and C.

Measures: We characterize two categories of hospital utilization that are designed to reflect gaps in care and corresponding opportunities for improving care processes and reducing costs. The first is avoidable/preventable hospital stays and ED visits that arise from inadequate ambulatory care in the community. The second is repeated use of hospital and ED by patients whom we classify as high-users. Within each category of utilization we identify the prevalence of behavioral health conditions including mental illness, substance abuse, and severe mental illness (SMI). All prevalence rates overall as well as payer-specific are reported for 2008-2011. While overall cost magnitudes are annualized estimates adjusted to 2011 dollars using CPI-Medical Care, the

corresponding amounts for individual payers are annualized, 2011 adjusted estimates based on 2008-2010 utilization.

We calculate and compare this prevalence across different payer categories as well as the 13 regions and NJ overall. We also report magnitudes of costs associated with behavioral health conditions as well as their share in total costs associated with avoidable hospital utilization. Below we outline the methods for identifying avoidable/preventable hospitalizations, high inpatient and ED use, the different components of behavioral health namely mental illness, substance use disorder(substance abuse), and SMI.

Ambulatory Care Sensitive (ACS) Inpatient Hospitalizations and Emergency Department Visits: We calculate rates of ACS IP hospitalizations and treat-and-release ED visits that may occur due to inadequate ambulatory care within communities. Avoidable hospitalizations have been widely used in previous research to measure access to primary care, and disparities in health outcomes (Basu, Friedman, and Burstin 2004; Billings et al. 1993; Bindman et al. 1995; Howard et al. 2007). The federal Agency for Healthcare Research and Quality (AHRQ) provides validated programming algorithms to calculate rates of avoidable ACS hospitalizations, otherwise known as the Prevention Quality Indicators (PQI), which are used in this analysis (AHRQ 2014). Appendix D gives a list of ACS conditions that constitute a composite index that measures the overall rate of avoidable IP hospitalizations per unit of population. Appendix D also lists the constituents of the two other composite indicators (based on acute and chronic conditions). Our focus throughout this analysis is on the overall composite since it gives a comprehensive measure for the community.

We also calculate avoidable treat-and-release (i.e., without an IP admission) ED visits based on the methodology provided by the New York University, Center for Health and Public Service Research (Billings, Parikh, and Mijanovich 2000), which are part of AHRQ's Safety Net Monitoring Toolkit. These comprise three categories of avoidable ED visits that could have been treated in an outpatient primary care setting or could have been prevented with timely access to primary care. Detailed definitions of these classifications are provided with examples in Appendix E.

High Users of Hospital Resources: Current research demonstrates that health spending in the United States is concentrated in a small proportion of very high users of care (Cohen and Yu 2012). These high utilization, high cost patients typically have complex medical conditions and face social challenges such as homelessness and substance abuse. Patient care improvement initiatives would yield the highest returns by focusing their clinical and social interventions on such high need, high-cost patients. Effective care coordination for these high-cost patients may also provide the highest potential savings in hospital costs. We calculated a benchmark level of 'high use' based on the statewide distribution of hospital use among all patients in New Jersey.

Specifically, we defined high user of IP resources as a patient who has four or more IP visits (95.6th percentile statewide) over 2008-2011. Similarly a high ED user is a patient having greater than or equal to six visits over 2008-2011 (95.4th percentile statewide).

Behavioral Health Comorbidities: Behavioral health is classified into two mutually exclusive categories: problems related to mental health (MH) and substance use disorders/substance abuse (SA). We use the Agency for Health Care Research and Quality (AHRQ) Clinical Classification Software (CCS). The software uses information from ICD 9 (CM) diagnosis and procedure codes to classify hospital discharges into a number of clinically meaningful disease categories (HCUP 2014). The current version has an updated section on mental health and substance abuse and allows separate identification of these behavioral health conditions. Mental health conditions include Mood Disorders; Schizophrenia; anxiety disorder; delirium; dementia and substance abuse includes alcohol and substance-related disorders (See Appendix F for details). We also identify patients who are severely mentally ill based on findings from the national comorbidity survey – replication (Kessler et al. 2005) and subsequent work by Coffey et al. (2011) at AHRQ. These patients experienced functional and social impairment and had a diagnosis of psychoses, bipolar disorder, drug dependence, obsessive compulsive disorder, dysthymia (chronic depression), or related diagnoses. Such critical gaps in functional status by patients resulting in their not being able to carry out their normal activities (an average of 88 days during the year) may hamper optimal care and would be important to document while explaining hospital utilization. Along with prevalence of BH problems in avoidable hospitalizations, we separately examine the prevalence of SMI.

Results

The results are organized into four sections. Section 1 examine the presence of BH problems among all hospital users, inpatient and ED high users, and avoidable/preventable inpatient hospitalizations and ED visits. For some of these findings, we focus on Medicaid-paid beneficiaries. Section 2 reports magnitudes of hospital costs associated with BH problems. Section 3 examines the extent to which SMI is present within BH problems. Section 4 reports selected payer distributions of hospital users with BH problems and associated costs.

Overall, we found that patients who are high users of hospital care and those with avoidable/preventable inpatient hospital use are disproportionately affected by BH conditions, and that BH conditions are associated with very high costs. We conclude that improved integration of BH with medical services among complex patients can lead to lower avoidable hospital utilization and cost savings. We summarize key findings below. All findings relate to the 13 ACO regions in aggregate. However, the tables in this report also provide detailed information for each of 13 ACO regions and for New Jersey overall. Detailed tabulations are also provided by source of payment for hospital care.

High Hospital Use and Avoidable/Preventable Hospitalizations

- 74.9% of IP high users were diagnosed with BH problems (Figures 1, 7, and Table 1) compared to 32.3% of non-high users.
 - The corresponding percentages for Medicaid-paid beneficiaries were 80.8% and 25.1% (Figure 9).
 - Presence of BH problems among inpatient high-users was the highest for Medicare and Medicaid dual eligibles (79.9%), Medicaid-paid beneficiaries (80.8%), charity care patients (82.2%) and uninsured, self-pay patients (81.9%) (Figure 1).
 - SMI was present among 26.3% of all IP high users compared to 7.9% of non-high users (Figure 7).
 - For Medicaid beneficiaries, SMI was present among 44.4% of all IP high users compared to 9.6% of IP non-high users (Figure 9).
- 37.7% of hospitalization costs by IP high users was associated with BH problems compared to 32.3% of costs for IP non-high users. (Figure 1 and 7).
 - The corresponding percentages for Medicaid-paid beneficiaries were 46.5% and 31.5% (Figure 9).
 - Percentage of hospitalization-related costs by IP high users associated with BH was 51.9% for charity care patients, 51.8% for self-pay patients, and 38.0% for dual eligibles (Figure 1).

- 56.0% of ED high users were diagnosed with BH problems compared to 18.1% of non-high users (Figures 2, 8, and Table 4).
 - The corresponding percentages for Medicaid-paid beneficiaries were 57.0% and 19.2% (Figure 10).
 - Among ED high-users, presence of BH problems was highest among Medicare and Medicaid dual eligibles (66.0%), other Medicare beneficiaries (59.2%), charity care patients (59.3%) and uninsured, self-pay patients (61.8%) (Figure 2).
 - SMI was present among 13.9% of ED high users compared to 2.1% of non-high users (Figure 8).
 - For Medicaid-paid beneficiaries, SMI was present among 18.0% of all ED high users compared to 3.9% of ED non-high users (Figure 10).
- 26.7% of costs by ED high users was associated with BH problems compared to 16.8% of costs for non-high users. (Figures 2 and 8).
 - The corresponding percentages for Medicaid-paid beneficiaries were 26.9% and 16.1% (Figure 10).
 - Percentage of ED costs by ED high users associated with BH was 31.8% for charity care patients, 31.3% for self-pay patients, and 32.8% for dual eligibles (Figure 2).
- 40.1% of avoidable inpatient hospitalizations were associated with BH problems compared to 35.0% of non-avoidable hospitalizations (Figure 11).
 - This difference was greater among Medicaid-paid hospitalizations with 47.9% of avoidable hospitalizations associated with BH compared to 34.2% of non-avoidable hospitalizations (Figure 3 and 13).
- Avoidable ED visits had a lower presence of BH problems compared to non-avoidable visits (12.5% v. 23.4%) (Figure 12).
 - The corresponding percentages for Medicaid-paid visits were 12.8% v. 27.4% (Figure 14).
- 35.7% of all inpatient hospitalizations and 34.8% of all inpatient costs were associated with BH problems (Tables 12 and 13).
- 17.5% of all ED visits and 20.8% of all ED costs were associated with BH problems (Tables 15 and 16).

Cost Estimates

- Tables 25-30 and Figures 15-18 report levels of costs associated with BH diagnoses, overall and with high-use and avoidable-use relative to total costs associated with these categories of utilization. These are annualized estimates adjusted to 2011 dollars.
 - Total inpatient costs associated with BH was \$880.1 million and corresponding ED costs were 73.1 million (Tables 25 and 26).

- Out of IP high user costs amounting to \$1.2 billion, \$444.8 million (37.7%) was associated with BH conditions (Table 27).
- Out of ED high user costs amounting to \$143.1 million, \$38.3 million (26.7%) was associated with BH conditions (Table 28).
- Out of avoidable inpatient hospitalization costs amounting to \$331.4 million, \$122.6 million (37.0%) was associated with BH conditions (Table 29).
- Out of avoidable ED costs amounting to \$172.5 million, \$26.0 million (15.1%) was associated with BH conditions (Table 30).

Severe Mental Illness

- Among *all* inpatient hospitalizations, 27.0% of patients with BH problems were severely mentally ill as were 14.9% of ED patients with BH (Tables 31 and 32).
- For Medicaid-paid hospitalizations, prevalence of SMI among BH patients was substantially higher at 43.2% for inpatients, and 25.7% in the ED (Tables 31 and 32).
- Among *all* inpatient hospitalizations, SMI related costs at \$211.5 million accounted for 24.0% of inpatient BH costs while SMI ED costs at \$12.5 million accounted for 17.1% of ED BH costs (Tables 33 and 34).
- SMI-related costs as a share of BH costs was the greatest among Medicaid beneficiaries across all payers. 41.2% of inpatient BH costs and 29.0% of ED BH costs were associated with SMI (Figure 19 and Tables 33, 34).

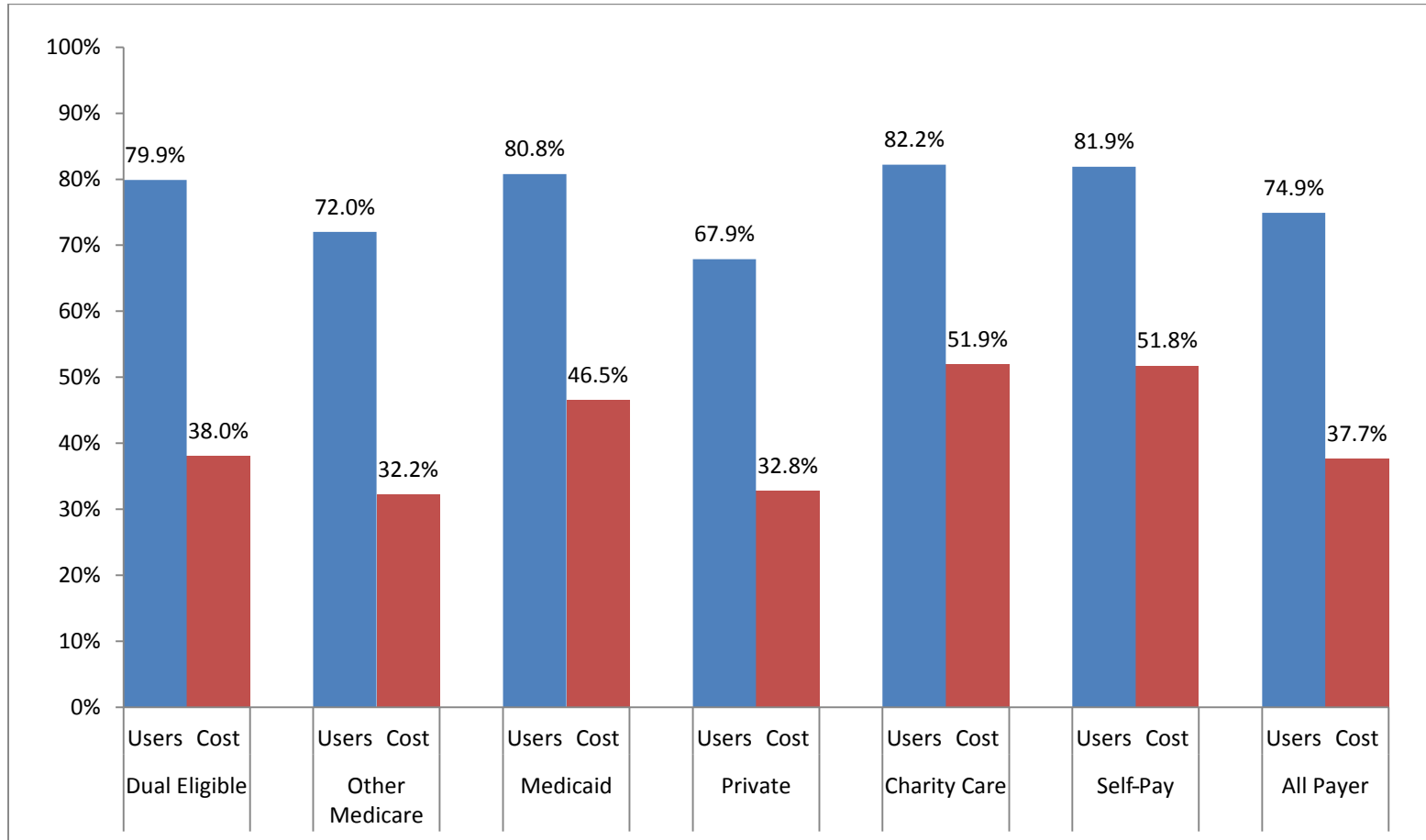
Payer Distributions

- Medicare beneficiaries who were not also eligible for Medicaid (labeled “other Medicare”) constituted the greatest share (32.7%) of inpatient high users with BH problems, accounting for 31.1% of IP high user costs (Figure 21).
- Beneficiaries with private insurance constituted the greatest share (25.9%) of ED high users with BH problems accounting for 18.9% of ED high user costs (Figure 21).

Appendices A1-A15 reports presence of mental health, substance abuse, and both combined, for each of the 13 ACO regions, in aggregate, and statewide. These are reported for inpatient and ED high users, all inpatient and ED patients, all inpatient and ED hospitalizations, and those inpatient hospitalizations and ED visits that were avoidable/preventable.

Section 1: Behavioral Health (BH) Problems or Severe Mental Illness (SMI) in Hospital High Users/Avoidable Hospitalizations

Figure 1. Inpatient high use and BH



Aggregated for 13 ACO regions.

Figures denote percent of IP high users with BH problems and percentage of total costs associated with BH.

Table 1. Percent of inpatient high users with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	83.3%	38.9%	74.6%	22.6%	83.1%	48.9%	73.9%	24.2%	85.9%	42.3%	90.7%	45.8%	77.9%	29.8%
Atlantic City	83.5%	34.2%	78.3%	19.2%	88.1%	57.2%	75.4%	31.0%	89.2%	47.9%	88.2%	47.7%	81.4%	33.1%
Camden	77.1%	24.8%	74.3%	13.8%	79.3%	38.5%	72.5%	24.4%	86.3%	47.6%	88.9%	48.8%	77.9%	29.3%
Elizabeth	78.6%	21.4%	71.7%	17.0%	78.5%	38.0%	66.3%	19.3%	79.5%	36.6%	78.8%	34.7%	72.3%	22.2%
Jersey City	73.0%	19.3%	66.3%	14.3%	75.8%	33.7%	64.7%	16.7%	82.0%	35.3%	78.4%	33.0%	70.1%	20.8%
New Brunswick	80.3%	21.3%	73.7%	19.4%	69.6%	41.8%	65.7%	21.1%	70.7%	34.7%	75.8%	43.8%	71.9%	23.6%
Newark	83.2%	25.7%	78.2%	17.1%	86.6%	51.8%	69.4%	20.9%	84.6%	48.4%	86.9%	52.0%	79.7%	30.5%
Paterson	70.8%	22.2%	66.7%	16.1%	74.0%	45.8%	65.8%	22.2%	77.7%	42.4%	73.5%	42.0%	69.3%	25.5%
Perth Amboy	82.5%	29.1%	69.8%	16.5%	76.9%	38.8%	68.0%	21.9%	73.1%	33.3%	83.3%	41.7%	74.1%	25.3%
Plainfield	72.9%	30.0%	57.9%	15.7%	74.3%	44.6%	57.4%	18.5%	73.5%	35.3%	65.3%	34.7%	62.7%	22.3%
Trenton	79.4%	26.9%	72.2%	17.9%	81.8%	44.4%	70.8%	23.4%	88.8%	42.9%	82.5%	38.6%	76.9%	28.0%
Union City	84.3%	25.1%	75.7%	22.0%	73.9%	37.3%	69.4%	19.5%	73.4%	29.4%	64.7%	27.3%	75.8%	23.7%
Vineland	86.1%	27.8%	69.9%	14.6%	77.1%	36.8%	61.8%	19.7%	84.2%	35.5%	78.9%	32.8%	72.4%	21.1%
13 ACO Regions	79.9%	25.6%	72.0%	17.2%	80.8%	44.4%	67.9%	21.2%	82.2%	41.8%	81.9%	43.7%	74.9%	26.3%
All NJ	82.3%	30.7%	75.4%	18.2%	82.7%	48.1%	72.8%	25.4%	84.3%	44.8%	85.2%	47.6%	76.7%	25.5%

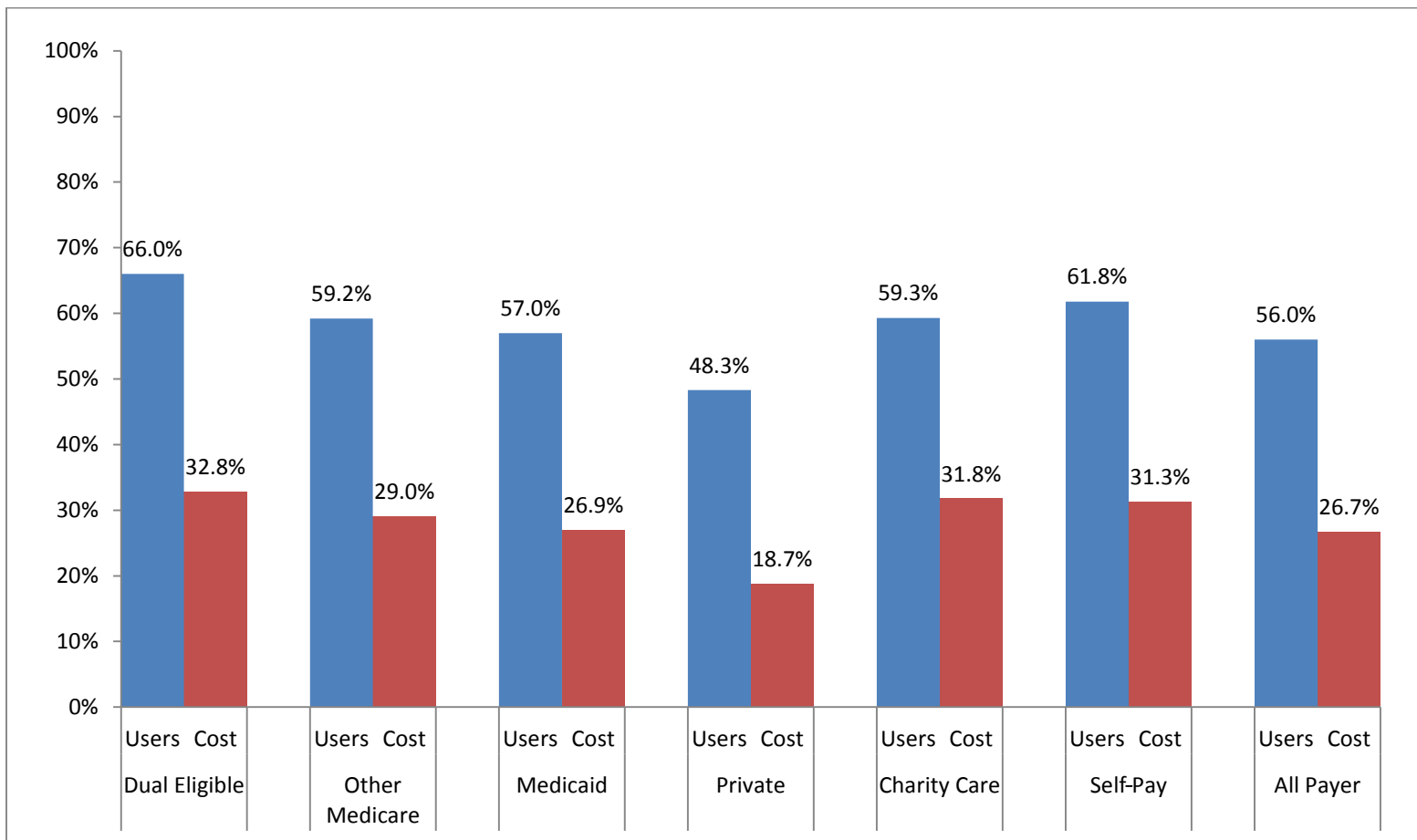
Table 2. Percent of inpatient high use stays associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	56.4%	22.5%	41.7%	9.8%	64.0%	27.5%	41.6%	10.1%	66.2%	22.9%	65.4%	26.3%	49.3%	15.5%
Atlantic City	55.2%	16.5%	45.4%	9.7%	67.3%	39.1%	48.4%	15.0%	71.6%	26.2%	68.1%	26.4%	54.8%	17.7%
Camden	38.5%	11.3%	37.9%	6.8%	49.7%	19.4%	40.9%	11.5%	66.4%	27.2%	67.9%	31.2%	46.6%	15.3%
Elizabeth	40.3%	9.6%	37.1%	7.1%	45.6%	18.4%	34.2%	7.6%	54.7%	17.7%	59.2%	16.5%	40.0%	9.8%
Jersey City	36.9%	7.3%	31.1%	5.4%	43.8%	15.0%	32.0%	6.2%	61.1%	16.8%	52.0%	17.4%	38.2%	9.0%
New Brunswick	43.8%	12.1%	38.3%	8.1%	43.4%	23.3%	35.6%	9.5%	48.5%	16.3%	55.6%	23.8%	40.2%	11.1%
Newark	45.9%	12.9%	40.0%	6.5%	58.7%	30.5%	38.2%	10.3%	64.7%	28.4%	67.1%	30.7%	48.4%	16.6%
Paterson	37.6%	10.8%	33.3%	6.4%	50.6%	29.7%	34.0%	10.0%	55.5%	24.4%	53.8%	24.8%	39.7%	13.3%
Perth Amboy	47.3%	12.7%	35.3%	7.8%	52.9%	25.2%	37.6%	12.7%	52.2%	18.8%	58.6%	22.8%	42.9%	13.3%
Plainfield	35.3%	13.8%	29.5%	7.4%	46.5%	21.6%	27.8%	7.1%	45.5%	18.2%	41.4%	17.3%	33.1%	10.5%
Trenton	41.4%	11.2%	38.3%	8.4%	53.7%	25.9%	38.7%	10.0%	62.3%	22.4%	61.1%	23.8%	45.8%	14.4%
Union City	49.1%	8.5%	40.6%	6.8%	47.4%	20.1%	36.6%	7.1%	43.9%	14.8%	42.3%	14.7%	42.7%	9.1%
Vineland	47.1%	13.5%	31.0%	5.4%	44.4%	15.2%	30.3%	7.9%	53.9%	14.9%	43.5%	14.1%	36.2%	8.9%
13 ACO Regions	44.2%	11.9%	36.8%	6.9%	53.0%	24.9%	36.4%	9.4%	60.4%	22.9%	60.1%	25.2%	43.8%	13.2%
All NJ	49.7%	16.1%	40.2%	7.2%	56.8%	27.8%	42.5%	11.7%	64.0%	24.6%	64.5%	27.1%	45.3%	12.4%

Table 3. Percent of inpatient high use costs associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	47.9%	19.9%	36.2%	8.9%	56.7%	27.6%	38.8%	9.4%	58.7%	18.3%	63.4%	22.3%	43.0%	13.8%
Atlantic City	47.5%	13.6%	37.9%	7.3%	60.8%	29.0%	43.4%	12.6%	60.8%	18.4%	59.8%	18.6%	46.8%	13.1%
Camden	30.1%	8.6%	31.1%	5.4%	41.5%	15.2%	34.4%	8.0%	55.8%	21.2%	56.0%	22.4%	37.6%	11.0%
Elizabeth	33.6%	9.0%	32.2%	6.6%	40.8%	16.9%	31.7%	6.5%	49.2%	13.7%	52.0%	14.2%	35.3%	8.5%
Jersey City	32.0%	6.7%	28.3%	5.0%	37.5%	12.8%	28.6%	5.5%	50.4%	10.4%	42.7%	10.9%	32.6%	7.0%
New Brunswick	38.8%	11.5%	33.7%	7.5%	33.7%	20.1%	33.4%	9.0%	46.3%	15.7%	50.2%	17.9%	35.7%	9.9%
Newark	40.0%	10.8%	34.9%	5.4%	52.7%	25.8%	34.4%	8.3%	55.0%	19.6%	58.6%	23.0%	41.8%	12.6%
Paterson	32.9%	8.7%	29.5%	5.7%	42.2%	23.4%	30.6%	8.2%	49.6%	20.0%	47.8%	18.8%	34.4%	10.3%
Perth Amboy	40.5%	12.0%	30.1%	6.0%	49.1%	22.4%	35.8%	12.4%	51.9%	14.9%	58.5%	16.2%	38.1%	11.3%
Plainfield	29.6%	11.4%	24.5%	7.1%	47.3%	20.7%	25.5%	6.8%	41.1%	17.2%	31.9%	13.6%	28.6%	9.5%
Trenton	34.3%	8.7%	30.9%	6.7%	44.7%	19.8%	33.1%	8.4%	52.7%	15.2%	49.8%	16.8%	37.4%	10.6%
Union City	42.6%	7.2%	37.8%	6.5%	42.2%	17.9%	33.0%	6.1%	36.9%	9.7%	34.2%	8.4%	38.1%	7.6%
Vineland	41.9%	10.8%	28.5%	4.7%	39.5%	11.9%	26.8%	6.2%	41.7%	8.8%	37.9%	8.1%	32.4%	7.0%
13 ACO Regions	38.0%	10.0%	32.2%	6.0%	46.5%	20.9%	32.8%	7.9%	51.9%	16.6%	51.8%	18.2%	37.7%	10.3%
All NJ	42.7%	13.5%	34.9%	6.4%	49.3%	22.9%	37.3%	9.5%	55.3%	18.3%	55.2%	19.7%	38.9%	10.0%

Figure 2. Emergency department high use and behavioral health



Aggregated for 13 ACO regions.

Figures denote percent of ED high users with BH problems and percentage of total costs associated with BH.

Table 4. Percent of ED high users with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	76.4%	37.4%	68.0%	25.4%	65.0%	16.2%	55.6%	11.5%	66.2%	20.3%	75.8%	20.5%	66.4%	18.6%
Atlantic City	76.6%	30.7%	67.3%	22.3%	67.4%	23.1%	65.6%	10.4%	79.2%	21.7%	73.9%	12.8%	71.2%	16.3%
Camden	58.0%	18.3%	53.5%	17.8%	44.6%	13.3%	34.6%	6.7%	56.9%	18.7%	47.3%	11.7%	43.6%	11.4%
Elizabeth	66.7%	28.8%	62.1%	21.6%	55.9%	23.5%	45.7%	9.8%	49.6%	13.6%	53.9%	11.5%	50.7%	13.4%
Jersey City	62.1%	21.9%	53.5%	15.1%	52.1%	13.6%	44.5%	6.8%	57.7%	14.2%	57.3%	13.0%	52.5%	12.0%
New Brunswick	65.0%	32.8%	66.1%	25.3%	56.7%	28.1%	44.4%	9.3%	39.1%	10.5%	51.7%	12.8%	48.2%	13.2%
Newark	71.1%	30.3%	61.8%	20.8%	66.5%	23.3%	54.6%	8.9%	64.7%	17.6%	70.4%	16.4%	63.2%	16.1%
Paterson	54.0%	20.0%	52.5%	16.1%	57.2%	18.5%	48.5%	7.5%	56.0%	11.3%	60.7%	10.5%	53.4%	11.0%
Perth Amboy	68.9%	20.8%	66.9%	21.3%	61.1%	15.5%	54.1%	9.7%	64.8%	14.5%	64.2%	11.9%	61.0%	13.4%
Plainfield	64.5%	35.5%	62.4%	23.7%	46.2%	13.9%	38.8%	9.2%	54.7%	15.0%	47.6%	13.5%	46.1%	13.5%
Trenton	65.2%	24.3%	58.1%	17.8%	50.2%	15.2%	46.8%	8.5%	61.7%	16.7%	59.6%	11.6%	54.5%	13.5%
Union City	59.0%	21.5%	50.5%	16.4%	51.5%	16.4%	42.1%	9.3%	46.8%	11.4%	52.3%	11.3%	48.1%	12.1%
Vineland	70.8%	24.4%	59.6%	18.3%	56.9%	16.1%	47.4%	11.5%	51.2%	16.6%	59.5%	13.6%	56.2%	15.4%
13 ACO Regions	66.0%	25.9%	59.2%	19.4%	57.0%	18.0%	48.3%	8.6%	59.3%	15.5%	61.8%	13.8%	56.0%	13.9%
All NJ	73.2%	34.2%	63.5%	21.6%	62.2%	21.9%	54.0%	14.2%	62.5%	19.2%	64.6%	17.5%	60.0%	18.1%

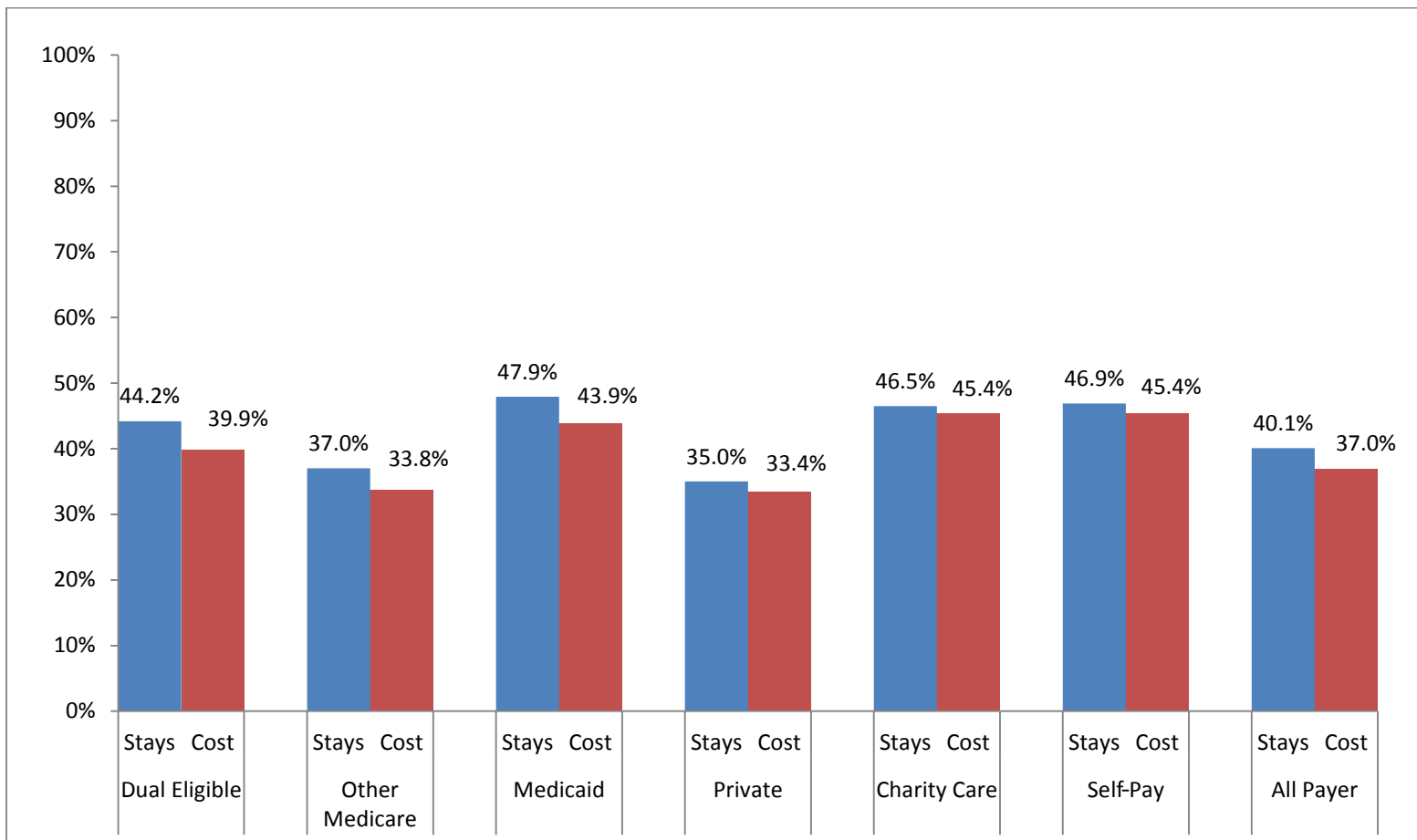
Table 5. Percent of ED high use visits associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	39.8%	16.5%	36.3%	11.2%	26.8%	8.3%	21.4%	4.4%	29.8%	6.7%	35.1%	7.1%	29.7%	7.7%
Atlantic City	42.8%	15.5%	35.5%	11.7%	32.7%	9.4%	23.4%	4.4%	40.2%	7.9%	32.9%	4.9%	32.5%	7.0%
Camden	20.9%	6.6%	19.7%	6.8%	14.0%	3.7%	8.6%	1.6%	19.4%	3.9%	14.0%	2.7%	13.2%	3.0%
Elizabeth	33.0%	10.8%	32.6%	11.0%	26.2%	9.6%	15.6%	3.0%	23.1%	4.0%	23.3%	3.2%	21.6%	4.7%
Jersey City	20.7%	5.0%	22.2%	5.7%	17.2%	3.6%	11.9%	1.4%	28.8%	2.7%	24.2%	2.8%	20.5%	2.9%
New Brunswick	28.2%	10.9%	28.6%	10.7%	24.5%	8.4%	13.5%	2.7%	15.5%	2.6%	19.1%	3.3%	17.7%	4.1%
Newark	35.7%	13.4%	30.5%	9.5%	34.4%	11.7%	20.4%	2.6%	32.7%	4.9%	35.4%	4.9%	30.2%	6.2%
Paterson	24.0%	8.3%	21.8%	6.9%	22.2%	7.2%	14.0%	2.2%	23.4%	3.4%	23.3%	2.7%	19.7%	3.7%
Perth Amboy	30.2%	10.1%	27.9%	11.1%	22.2%	4.9%	17.7%	2.5%	32.0%	2.6%	24.8%	2.8%	23.5%	4.2%
Plainfield	29.5%	15.5%	26.8%	10.8%	12.9%	3.3%	12.2%	2.6%	18.9%	4.6%	18.2%	3.0%	16.0%	4.1%
Trenton	27.7%	8.5%	22.3%	6.6%	19.9%	5.4%	16.0%	2.0%	30.5%	4.1%	24.2%	2.8%	22.4%	4.0%
Union City	21.6%	5.7%	21.3%	5.4%	16.9%	4.6%	14.0%	2.6%	17.4%	3.6%	24.6%	3.0%	19.0%	3.5%
Vineland	23.5%	7.6%	20.5%	4.1%	16.2%	3.6%	13.6%	2.9%	18.8%	3.0%	20.0%	3.0%	17.6%	3.7%
13 ACO Regions	29.8%	10.5%	26.6%	8.3%	23.7%	7.1%	15.8%	2.5%	28.0%	4.3%	27.0%	3.8%	23.3%	4.7%
All NJ	36.3%	14.4%	29.7%	8.7%	26.3%	7.9%	19.2%	3.8%	29.0%	5.1%	26.4%	4.3%	25.0%	5.7%

Table 6. Percent of ED high use costs associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	44.7%	18.9%	40.6%	14.2%	31.4%	10.2%	24.2%	4.9%	35.4%	7.6%	39.6%	8.5%	34.1%	9.4%
Atlantic City	44.2%	15.3%	37.2%	11.5%	35.8%	10.5%	26.5%	4.7%	43.0%	8.2%	35.5%	5.7%	35.1%	7.5%
Camden	25.0%	7.7%	22.9%	6.2%	17.0%	4.1%	10.9%	2.0%	24.5%	5.2%	19.1%	3.5%	17.1%	3.8%
Elizabeth	35.0%	13.4%	36.5%	11.3%	28.4%	9.6%	18.0%	3.2%	26.7%	4.8%	28.2%	3.7%	25.1%	5.4%
Jersey City	31.2%	7.3%	31.3%	6.1%	24.3%	6.8%	17.5%	2.4%	32.7%	5.0%	31.2%	5.6%	26.7%	5.0%
New Brunswick	32.9%	13.3%	34.5%	12.6%	31.4%	12.5%	17.4%	3.5%	18.5%	3.8%	23.6%	4.8%	22.1%	5.6%
Newark	39.5%	16.1%	31.0%	9.5%	38.6%	12.8%	23.3%	3.3%	38.7%	6.0%	41.8%	6.4%	34.7%	7.5%
Paterson	27.0%	10.7%	24.8%	8.7%	25.7%	9.7%	16.7%	2.9%	25.8%	4.4%	27.3%	4.2%	22.7%	5.1%
Perth Amboy	39.6%	13.3%	35.4%	11.8%	29.4%	8.5%	23.2%	3.8%	33.7%	2.9%	30.5%	4.5%	29.8%	6.4%
Plainfield	33.4%	15.7%	28.6%	11.6%	18.0%	5.1%	15.1%	3.1%	22.7%	5.9%	23.1%	4.6%	20.1%	5.3%
Trenton	25.9%	7.8%	20.7%	5.9%	18.0%	5.3%	14.4%	2.3%	26.7%	4.1%	21.4%	3.3%	20.0%	4.2%
Union City	24.5%	5.6%	24.5%	6.0%	21.2%	6.7%	15.9%	3.3%	19.7%	4.7%	25.2%	3.7%	20.7%	4.4%
Vineland	23.8%	7.5%	20.6%	3.8%	17.6%	4.2%	15.4%	3.0%	22.5%	3.4%	21.7%	3.0%	19.1%	3.9%
13 ACO Regions	32.8%	11.7%	29.0%	8.4%	26.9%	8.4%	18.7%	3.1%	31.8%	5.4%	31.3%	5.0%	26.7%	5.8%
All NJ	40.4%	16.7%	33.9%	9.5%	29.9%	9.6%	23.0%	5.0%	33.6%	6.4%	31.0%	5.7%	29.2%	7.2%

Figure 3. Avoidable inpatient hospitalizations and behavioral health problems



Aggregated for 13 ACO regions.

Figures denote percent of avoidable inpatient stays and costs associated with BH problems.

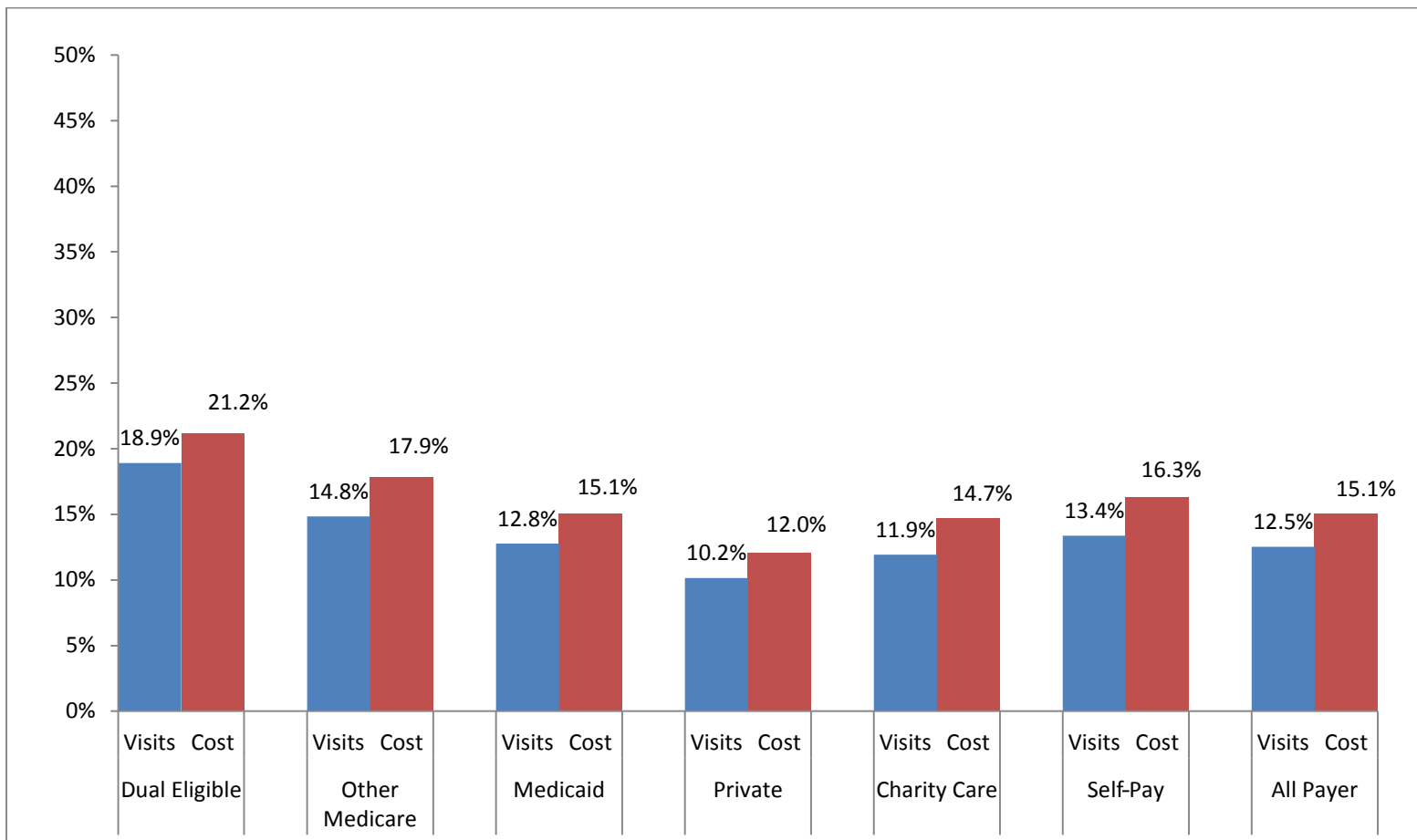
Table 7. Percent of avoidable inpatient stays associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	61.4%	18.1%	43.5%	8.4%	60.9%	22.3%	38.8%	6.4%	53.0%	8.5%	58.5%	15.0%	47.8%	10.9%
Atlantic City	58.0%	12.0%	44.1%	6.3%	58.3%	25.8%	50.5%	8.9%	62.7%	12.6%	62.2%	11.7%	52.7%	10.2%
Camden	39.9%	7.1%	38.5%	4.4%	45.2%	9.4%	46.4%	7.2%	59.3%	8.7%	54.4%	14.0%	44.7%	7.2%
Elizabeth	40.3%	7.0%	38.4%	5.1%	42.2%	11.9%	31.9%	4.5%	42.4%	7.9%	38.0%	3.3%	37.8%	5.8%
Jersey City	40.7%	5.4%	30.2%	4.3%	42.1%	9.9%	27.6%	3.2%	44.5%	5.1%	37.6%	4.7%	33.9%	4.9%
New Brunswick	44.7%	7.6%	40.1%	5.8%	41.2%	13.7%	33.9%	6.7%	37.3%	7.1%	50.5%	10.5%	39.0%	6.8%
Newark	45.9%	9.3%	41.7%	5.2%	52.7%	16.2%	39.1%	5.9%	52.7%	9.9%	52.9%	9.6%	44.9%	8.2%
Paterson	35.7%	5.7%	32.8%	4.4%	47.1%	14.9%	30.4%	4.5%	39.3%	7.8%	44.4%	7.6%	34.8%	5.9%
Perth Amboy	40.8%	8.7%	31.9%	5.5%	37.2%	15.0%	26.6%	5.7%	23.9%	4.0%	37.0%	8.7%	33.1%	7.2%
Plainfield	36.2%	10.7%	31.7%	4.8%	41.2%	18.3%	26.2%	6.3%	30.6%	7.4%	44.9%	5.8%	31.5%	6.8%
Trenton	42.7%	10.4%	37.8%	6.9%	54.1%	13.9%	41.2%	7.8%	49.6%	8.6%	43.1%	9.6%	42.9%	8.6%
Union City	51.1%	8.1%	40.9%	5.9%	40.9%	12.9%	33.3%	5.0%	30.8%	3.1%	28.4%	1.6%	40.4%	6.2%
Vineland	45.6%	7.6%	34.4%	4.8%	39.4%	11.2%	29.2%	4.4%	50.4%	9.2%	47.1%	6.3%	34.7%	5.5%
13 ACO Regions	44.2%	8.3%	37.0%	5.3%	47.9%	14.0%	35.0%	5.5%	46.5%	8.0%	46.9%	8.3%	40.1%	7.0%
All NJ	49.7%	11.7%	42.3%	5.9%	51.6%	16.1%	40.2%	6.4%	49.7%	8.7%	49.4%	8.1%	43.6%	7.3%

Table 8. Percent of avoidable inpatient costs associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	55.4%	16.4%	38.7%	8.7%	50.8%	22.5%	37.3%	6.4%	49.3%	11.0%	64.7%	11.1%	43.0%	10.8%
Atlantic City	53.3%	10.2%	37.3%	5.8%	49.0%	18.7%	43.7%	8.0%	56.7%	12.0%	58.6%	12.1%	45.9%	8.8%
Camden	32.9%	7.2%	31.5%	3.6%	42.4%	11.5%	39.9%	7.3%	56.1%	6.2%	50.8%	10.5%	38.4%	7.0%
Elizabeth	37.8%	6.6%	35.0%	5.2%	38.6%	11.7%	31.3%	5.0%	41.2%	6.7%	56.8%	2.6%	35.8%	5.9%
Jersey City	35.8%	4.8%	28.8%	4.4%	35.9%	9.5%	26.7%	4.0%	41.3%	6.4%	25.6%	2.6%	31.0%	5.0%
New Brunswick	38.8%	7.2%	34.7%	5.3%	35.9%	14.0%	32.1%	6.8%	40.8%	7.4%	61.0%	11.5%	35.6%	6.5%
Newark	41.2%	7.9%	38.3%	5.1%	49.2%	16.1%	37.5%	6.0%	50.7%	9.3%	49.2%	9.5%	41.5%	7.8%
Paterson	33.2%	5.0%	30.7%	4.8%	44.6%	16.4%	29.8%	5.1%	41.4%	8.2%	45.7%	10.1%	33.1%	6.0%
Perth Amboy	36.3%	9.1%	30.4%	4.1%	43.2%	20.8%	26.6%	6.5%	25.4%	4.3%	49.5%	8.5%	33.0%	7.5%
Plainfield	32.2%	10.7%	26.1%	4.3%	40.8%	17.5%	22.8%	5.4%	27.1%	9.0%	53.7%	5.7%	27.6%	6.3%
Trenton	36.7%	10.3%	31.5%	6.4%	45.5%	11.8%	38.8%	8.3%	48.1%	9.4%	43.8%	11.6%	37.3%	8.3%
Union City	48.4%	8.2%	39.3%	6.6%	36.4%	11.9%	34.6%	5.6%	33.6%	3.7%	19.3%	1.2%	39.8%	6.8%
Vineland	41.9%	8.1%	32.5%	5.0%	43.3%	13.3%	27.1%	4.9%	55.6%	10.0%	42.9%	4.9%	33.3%	5.9%
13 ACO Regions	39.9%	7.6%	33.8%	5.3%	43.9%	14.1%	33.4%	5.8%	45.4%	8.1%	45.4%	7.8%	37.0%	6.9%
All NJ	44.8%	10.8%	38.3%	5.8%	47.0%	15.8%	38.4%	6.8%	48.1%	9.0%	48.4%	8.4%	40.1%	7.3%

Figure 4. Avoidable ED visits and behavioral health problems



Aggregated for 13 ACO regions.

Figures denote percent of avoidable ED visits and costs associated with BH problems.

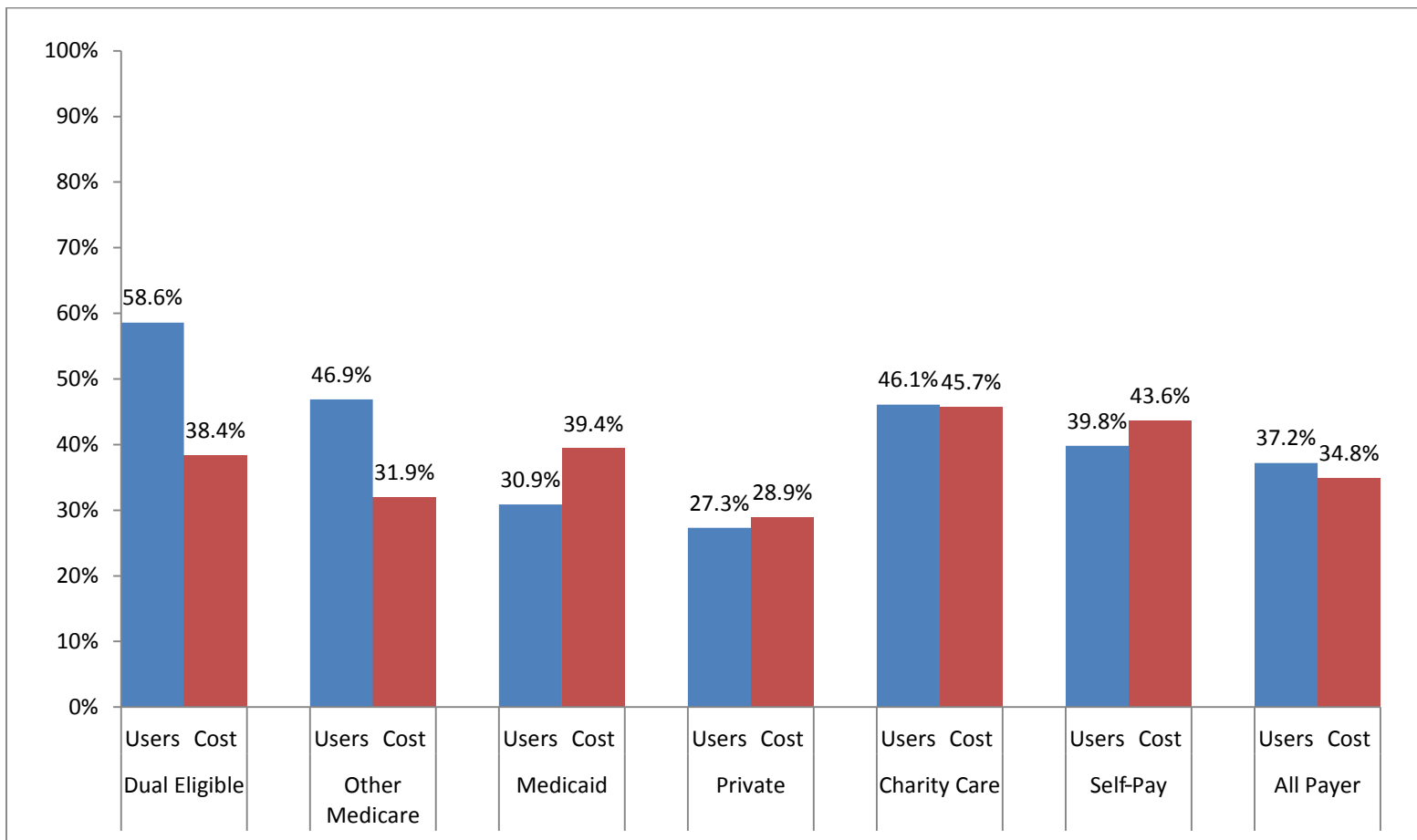
Table 9. Percent of avoidable ED visits associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	35.5%	12.1%	22.4%	4.7%	21.8%	4.3%	14.3%	1.6%	18.3%	2.4%	20.5%	2.1%	19.7%	3.3%
Atlantic City	34.6%	12.0%	26.7%	6.6%	23.7%	7.8%	17.6%	2.6%	27.8%	4.8%	20.3%	1.7%	23.7%	4.4%
Camden	11.1%	1.9%	12.3%	2.3%	5.8%	1.1%	5.6%	0.7%	8.2%	1.1%	4.5%	0.3%	5.9%	0.8%
Elizabeth	20.8%	4.5%	16.3%	2.7%	11.3%	2.3%	9.1%	0.7%	7.1%	0.8%	10.6%	0.6%	10.1%	1.1%
Jersey City	11.8%	1.9%	8.3%	0.9%	6.7%	1.1%	5.4%	0.3%	4.6%	0.4%	4.7%	0.3%	6.7%	0.6%
New Brunswick	16.1%	5.2%	15.0%	2.8%	12.8%	3.5%	6.5%	0.7%	4.7%	0.4%	6.9%	0.4%	7.7%	1.0%
Newark	23.0%	5.5%	19.2%	3.6%	21.1%	4.0%	16.3%	1.4%	19.2%	1.5%	22.5%	1.6%	19.6%	2.1%
Paterson	11.6%	2.2%	9.8%	1.5%	11.3%	1.8%	7.0%	0.5%	9.2%	0.8%	9.6%	0.4%	8.6%	0.8%
Perth Amboy	20.8%	4.0%	15.8%	2.8%	13.5%	1.4%	8.8%	0.5%	11.7%	0.8%	11.4%	0.5%	12.7%	1.2%
Plainfield	20.8%	8.0%	13.2%	3.7%	7.1%	2.3%	6.8%	1.0%	5.7%	0.7%	6.7%	0.6%	7.8%	1.5%
Trenton	20.4%	4.7%	15.0%	2.4%	10.7%	2.7%	11.6%	0.9%	13.7%	1.1%	12.9%	0.9%	13.0%	1.6%
Union City	9.7%	1.0%	8.1%	0.8%	4.4%	0.7%	4.7%	0.3%	3.2%	0.2%	4.8%	0.2%	5.1%	0.4%
Vineland	5.0%	1.4%	13.2%	2.5%	8.4%	1.6%	6.5%	0.5%	5.3%	0.8%	5.8%	0.7%	8.5%	1.2%
13 ACO Regions	18.9%	4.7%	14.8%	2.7%	12.8%	2.5%	10.2%	0.9%	11.9%	1.2%	13.4%	1.0%	12.5%	1.5%
All NJ	24.4%	7.0%	17.4%	2.9%	14.9%	3.0%	10.7%	1.0%	13.1%	1.4%	13.7%	1.1%	13.3%	1.7%

Table 10. Percent of avoidable ED costs associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	40.1%	12.8%	25.9%	5.6%	25.6%	4.8%	17.5%	2.0%	20.9%	2.4%	24.5%	2.2%	23.4%	3.8%
Atlantic City	35.3%	10.1%	29.2%	6.2%	25.6%	7.6%	19.9%	2.5%	27.5%	4.4%	23.0%	1.8%	25.7%	4.2%
Camden	15.5%	2.4%	16.7%	2.3%	8.3%	1.6%	8.1%	0.9%	12.7%	2.2%	6.9%	0.5%	9.3%	1.2%
Elizabeth	22.2%	4.2%	20.0%	3.0%	12.1%	2.3%	10.8%	0.8%	8.7%	0.9%	12.6%	0.7%	12.1%	1.3%
Jersey City	23.1%	2.9%	19.2%	1.7%	14.0%	3.0%	9.2%	0.6%	10.5%	1.0%	9.3%	0.5%	13.1%	1.3%
New Brunswick	20.1%	5.2%	20.3%	3.1%	15.1%	4.0%	8.4%	0.7%	5.1%	0.5%	8.7%	0.6%	10.0%	1.2%
Newark	23.4%	5.1%	19.6%	3.0%	24.0%	4.3%	17.7%	1.4%	22.0%	1.7%	26.8%	2.0%	21.9%	2.3%
Paterson	12.2%	2.1%	12.0%	1.7%	12.2%	1.8%	8.4%	0.6%	10.2%	0.9%	11.1%	0.6%	9.9%	0.9%
Perth Amboy	28.2%	6.1%	23.9%	4.3%	17.9%	3.1%	12.2%	0.8%	14.9%	0.9%	15.8%	1.0%	17.7%	2.3%
Plainfield	21.0%	7.0%	14.7%	4.0%	9.6%	3.0%	8.7%	1.3%	7.2%	1.1%	9.1%	0.9%	10.0%	1.8%
Trenton	17.2%	3.5%	13.0%	1.9%	9.6%	2.4%	8.6%	0.7%	11.0%	1.1%	9.9%	0.9%	10.6%	1.5%
Union City	11.1%	0.9%	11.0%	1.1%	5.7%	0.8%	5.7%	0.4%	4.0%	0.2%	6.4%	0.3%	6.6%	0.5%
Vineland	7.8%	2.5%	13.1%	2.2%	8.9%	1.6%	7.6%	0.7%	6.0%	0.6%	7.5%	0.9%	9.7%	1.3%
13 ACO Regions	21.2%	4.5%	17.9%	2.8%	15.1%	3.0%	12.0%	1.1%	14.7%	1.5%	16.3%	1.2%	15.1%	1.8%
All NJ	28.8%	8.0%	22.4%	3.4%	17.4%	3.7%	13.4%	1.4%	16.1%	1.9%	16.5%	1.4%	16.7%	2.3%

Figure 5. All inpatient hospitalizations and presence of behavioral health problems



Aggregated for 13 ACO regions.

Figures denote percent of inpatients with BH problems and corresponding share of costs.

Table 11. Percent of all inpatient users with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	67.1%	26.2%	50.0%	9.7%	37.4%	14.4%	34.0%	6.8%	51.8%	16.0%	55.6%	16.7%	43.7%	10.9%
Atlantic City	70.8%	23.5%	57.0%	12.0%	36.4%	19.0%	37.8%	8.8%	60.8%	21.7%	49.6%	16.8%	48.8%	14.2%
Camden	57.3%	14.3%	50.2%	7.7%	36.0%	13.1%	38.1%	8.5%	58.8%	20.4%	54.7%	20.3%	45.7%	12.8%
Elizabeth	51.7%	10.8%	47.9%	9.0%	23.4%	8.9%	26.7%	4.7%	40.5%	13.4%	31.4%	8.6%	33.8%	7.5%
Jersey City	50.1%	11.1%	41.4%	6.9%	28.4%	10.3%	22.2%	3.8%	47.5%	16.8%	38.5%	11.5%	32.9%	7.8%
New Brunswick	58.1%	12.1%	46.9%	8.8%	15.5%	7.4%	22.8%	4.8%	29.9%	9.4%	31.6%	11.0%	30.2%	7.1%
Newark	62.6%	17.8%	52.9%	9.3%	38.0%	18.0%	31.2%	6.8%	53.3%	23.3%	50.2%	21.0%	43.4%	13.7%
Paterson	48.9%	13.1%	42.1%	7.4%	28.1%	13.9%	23.8%	5.7%	40.1%	15.7%	25.5%	9.8%	31.5%	8.9%
Perth Amboy	62.4%	19.0%	44.2%	9.1%	22.4%	9.2%	22.6%	4.6%	34.4%	11.5%	34.7%	12.7%	32.4%	9.0%
Plainfield	56.7%	20.0%	41.3%	9.1%	15.5%	7.2%	22.8%	4.9%	33.5%	13.3%	29.4%	9.8%	28.9%	7.9%
Trenton	62.1%	20.0%	49.2%	9.3%	39.1%	15.9%	34.4%	6.3%	54.0%	18.8%	40.8%	12.4%	43.3%	11.3%
Union City	58.2%	13.6%	47.6%	9.8%	18.7%	8.0%	22.4%	4.1%	29.8%	8.4%	24.8%	5.9%	31.4%	7.1%
Vineland	67.8%	19.4%	42.5%	6.7%	30.8%	11.3%	27.6%	5.0%	46.2%	14.3%	44.1%	14.1%	36.8%	8.2%
13 ACO Regions	58.6%	16.2%	46.9%	8.6%	30.9%	13.2%	27.3%	5.6%	46.1%	17.3%	39.8%	14.2%	37.2%	10.0%
All NJ	63.0%	19.7%	49.9%	8.4%	32.9%	14.5%	30.9%	6.7%	50.1%	19.0%	45.1%	16.6%	40.1%	9.5%

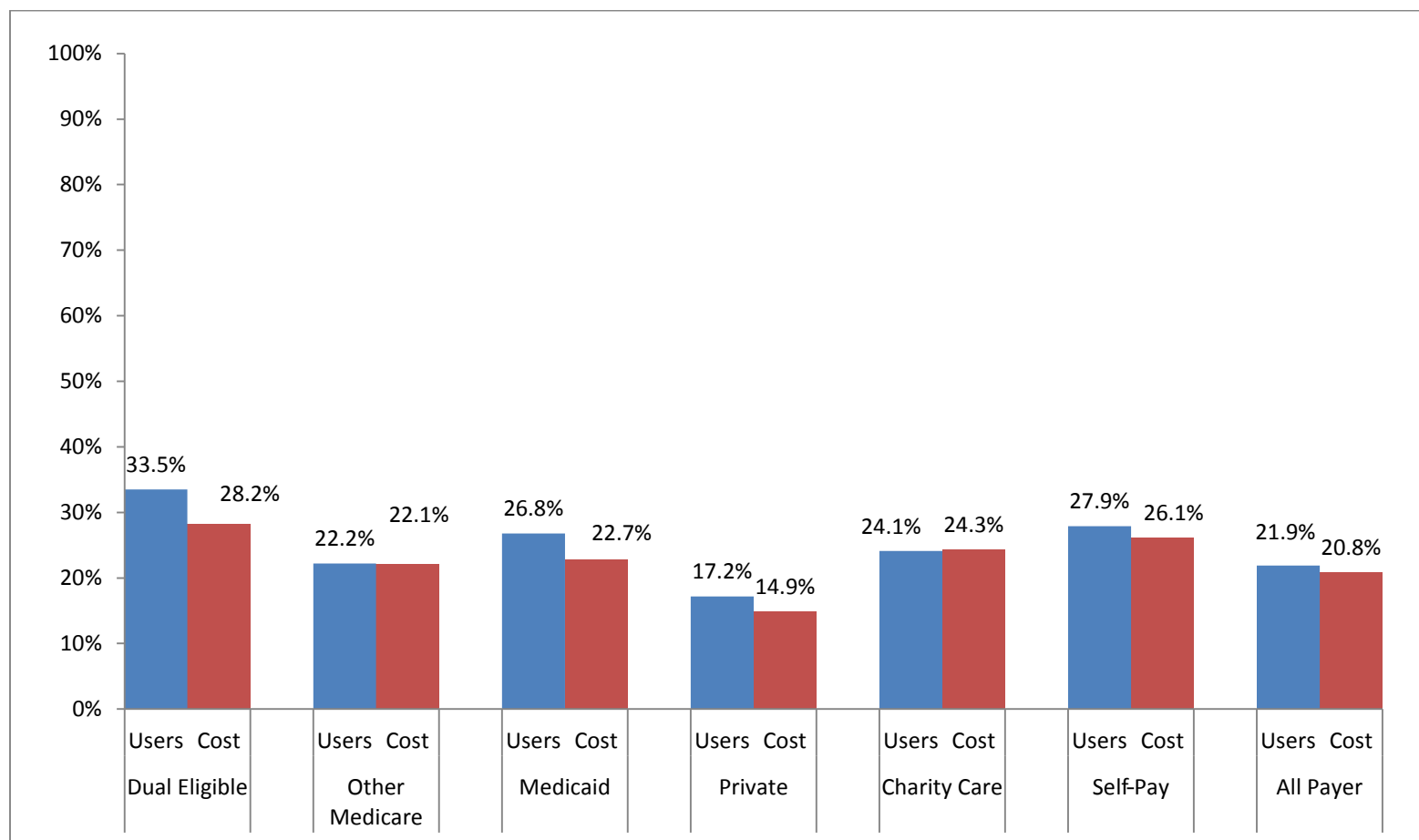
Table 12. Percent of all inpatient stays associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	55.8%	21.0%	39.8%	7.6%	45.3%	17.8%	32.3%	6.3%	54.1%	16.1%	55.8%	17.3%	41.4%	10.7%
Atlantic City	56.1%	16.4%	45.3%	9.2%	44.8%	24.2%	37.0%	9.0%	62.2%	20.7%	51.4%	17.0%	46.9%	13.5%
Camden	40.3%	10.5%	37.1%	5.9%	37.5%	13.6%	34.7%	7.9%	58.0%	20.1%	55.2%	21.2%	41.5%	12.0%
Elizabeth	39.9%	8.3%	36.9%	6.5%	26.9%	10.4%	25.2%	4.4%	41.5%	12.8%	34.1%	8.7%	31.9%	7.0%
Jersey City	36.9%	7.3%	30.2%	4.8%	31.5%	10.7%	21.5%	3.6%	49.7%	15.2%	39.5%	12.1%	31.0%	7.1%
New Brunswick	44.4%	10.5%	36.8%	6.7%	19.7%	9.5%	22.7%	4.9%	31.0%	9.6%	34.1%	12.3%	29.5%	7.1%
Newark	46.1%	12.7%	39.6%	6.2%	44.6%	21.7%	29.7%	6.7%	55.0%	23.3%	53.1%	22.0%	41.6%	13.3%
Paterson	37.0%	9.9%	32.3%	5.5%	33.6%	18.0%	23.1%	5.7%	42.3%	16.8%	29.6%	11.9%	30.7%	9.1%
Perth Amboy	46.9%	12.6%	34.3%	7.2%	28.8%	12.8%	22.9%	5.7%	36.9%	12.5%	37.4%	13.8%	32.4%	9.4%
Plainfield	38.9%	14.0%	31.4%	7.0%	21.1%	9.4%	21.3%	4.6%	33.6%	13.1%	29.6%	10.1%	27.1%	7.6%
Trenton	43.7%	12.3%	37.9%	7.1%	41.6%	17.7%	31.4%	6.0%	54.0%	18.0%	44.0%	14.1%	40.0%	10.8%
Union City	46.5%	8.0%	38.3%	6.3%	24.5%	10.2%	22.5%	3.9%	30.1%	8.6%	26.0%	6.8%	31.3%	6.3%
Vineland	48.1%	13.2%	31.2%	4.6%	30.5%	10.5%	24.8%	4.5%	44.5%	12.6%	39.0%	12.0%	31.7%	6.9%
13 ACO Regions	44.1%	11.5%	35.9%	6.1%	36.5%	16.0%	26.2%	5.5%	48.2%	17.4%	42.6%	15.5%	35.7%	9.7%
All NJ	50.1%	15.2%	39.4%	6.1%	38.5%	17.4%	30.2%	6.6%	52.2%	19.0%	47.8%	17.6%	37.7%	8.9%

Table 13. Percent of inpatient costs associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	48.5%	18.6%	34.9%	6.9%	47.5%	21.0%	34.2%	6.9%	53.7%	15.6%	58.1%	15.5%	39.4%	10.3%
Atlantic City	47.9%	12.7%	38.5%	6.8%	49.2%	21.1%	38.3%	8.4%	57.6%	15.3%	52.1%	12.4%	44.2%	10.5%
Camden	33.1%	8.8%	30.9%	4.6%	38.2%	13.4%	35.2%	6.7%	53.5%	17.4%	50.9%	17.7%	38.0%	9.9%
Elizabeth	33.4%	7.6%	32.7%	6.1%	35.1%	13.2%	29.1%	4.7%	41.7%	10.1%	37.8%	8.1%	33.0%	6.8%
Jersey City	31.9%	6.6%	27.7%	4.4%	32.6%	10.9%	24.4%	3.8%	44.9%	10.1%	35.5%	8.4%	29.9%	5.9%
New Brunswick	38.9%	10.1%	32.3%	6.1%	24.7%	11.9%	27.5%	6.0%	38.7%	11.5%	39.9%	13.5%	31.8%	7.5%
Newark	40.6%	10.7%	35.2%	5.2%	46.6%	20.9%	31.8%	6.6%	49.7%	15.8%	52.4%	17.9%	39.7%	10.8%
Paterson	32.7%	8.2%	29.3%	5.0%	34.3%	16.7%	25.4%	5.7%	41.2%	14.2%	32.1%	10.8%	30.5%	7.8%
Perth Amboy	39.6%	11.3%	30.3%	5.5%	33.9%	14.0%	27.4%	6.6%	37.7%	10.2%	44.4%	12.2%	33.0%	8.6%
Plainfield	33.7%	12.1%	26.4%	6.4%	30.8%	12.8%	23.9%	5.0%	33.9%	12.5%	33.8%	10.5%	27.5%	7.6%
Trenton	35.0%	9.4%	30.8%	5.7%	40.4%	16.1%	30.6%	5.3%	49.0%	12.2%	43.4%	11.2%	35.6%	8.3%
Union City	41.6%	7.2%	36.3%	5.8%	31.0%	12.1%	26.3%	4.2%	31.7%	7.0%	28.5%	5.7%	33.2%	6.1%
Vineland	43.6%	10.7%	29.1%	4.1%	33.3%	10.1%	26.8%	4.1%	38.9%	7.9%	38.7%	7.9%	31.1%	5.7%
13 ACO Regions	38.4%	9.7%	31.9%	5.4%	39.4%	16.2%	28.9%	5.6%	45.7%	13.1%	43.6%	13.0%	34.8%	8.4%
All NJ	43.3%	12.9%	34.9%	5.5%	41.7%	17.6%	32.7%	6.4%	49.0%	14.6%	47.3%	14.6%	36.4%	7.8%

Figure 6. All ED visits and presence of behavioral health problems



Aggregated for 13 ACO regions.

Figures denote percent of ED patients with BH problems and corresponding share of costs.

Table 14. Percent of all ED Users with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	52.1%	18.5%	27.1%	4.9%	37.6%	8.1%	20.7%	2.7%	32.5%	7.2%	37.0%	6.2%	27.7%	4.9%
Atlantic City	43.4%	13.6%	30.7%	7.1%	37.0%	10.8%	27.5%	3.2%	42.9%	9.0%	38.9%	4.2%	33.6%	5.3%
Camden	30.5%	7.5%	24.6%	5.1%	21.3%	5.5%	16.2%	2.5%	25.5%	6.2%	21.5%	4.1%	19.6%	3.9%
Elizabeth	30.5%	5.5%	26.6%	5.3%	21.8%	6.7%	16.9%	1.9%	18.6%	3.8%	22.4%	2.2%	18.8%	2.7%
Jersey City	26.5%	6.0%	17.2%	2.8%	20.7%	4.4%	12.2%	1.1%	20.7%	3.5%	21.4%	2.5%	16.8%	2.3%
New Brunswick	35.7%	10.5%	23.0%	4.8%	20.7%	7.7%	13.5%	2.0%	14.2%	3.1%	20.2%	2.3%	16.7%	2.6%
Newark	37.7%	11.0%	25.3%	4.7%	34.9%	9.1%	22.8%	2.4%	31.5%	5.4%	35.2%	4.5%	28.6%	4.2%
Paterson	24.5%	6.3%	18.2%	3.2%	23.5%	5.3%	15.8%	1.7%	20.9%	3.0%	24.0%	2.1%	18.6%	2.3%
Perth Amboy	39.7%	8.9%	25.4%	4.4%	26.5%	4.8%	17.4%	1.6%	27.5%	4.0%	27.5%	2.2%	23.1%	2.8%
Plainfield	39.7%	16.3%	23.6%	6.1%	20.2%	6.2%	14.2%	2.3%	16.0%	3.5%	21.8%	2.6%	17.5%	3.1%
Trenton	40.0%	12.5%	22.3%	4.5%	30.0%	8.1%	18.9%	2.4%	28.7%	5.3%	28.8%	3.4%	24.4%	4.0%
Union City	22.3%	4.7%	16.3%	3.0%	16.2%	4.0%	11.8%	1.6%	13.3%	2.1%	24.5%	1.7%	16.3%	2.0%
Vineland	39.9%	12.6%	19.3%	3.8%	25.2%	5.8%	14.1%	2.0%	20.1%	4.3%	24.6%	4.3%	18.8%	3.4%
13 ACO Regions	33.5%	9.4%	22.2%	4.2%	26.8%	6.7%	17.2%	2.0%	24.1%	4.3%	27.9%	3.4%	21.9%	3.3%
All NJ	39.8%	13.1%	23.0%	3.9%	29.2%	8.1%	17.0%	2.5%	26.4%	5.5%	28.2%	4.2%	20.9%	3.5%

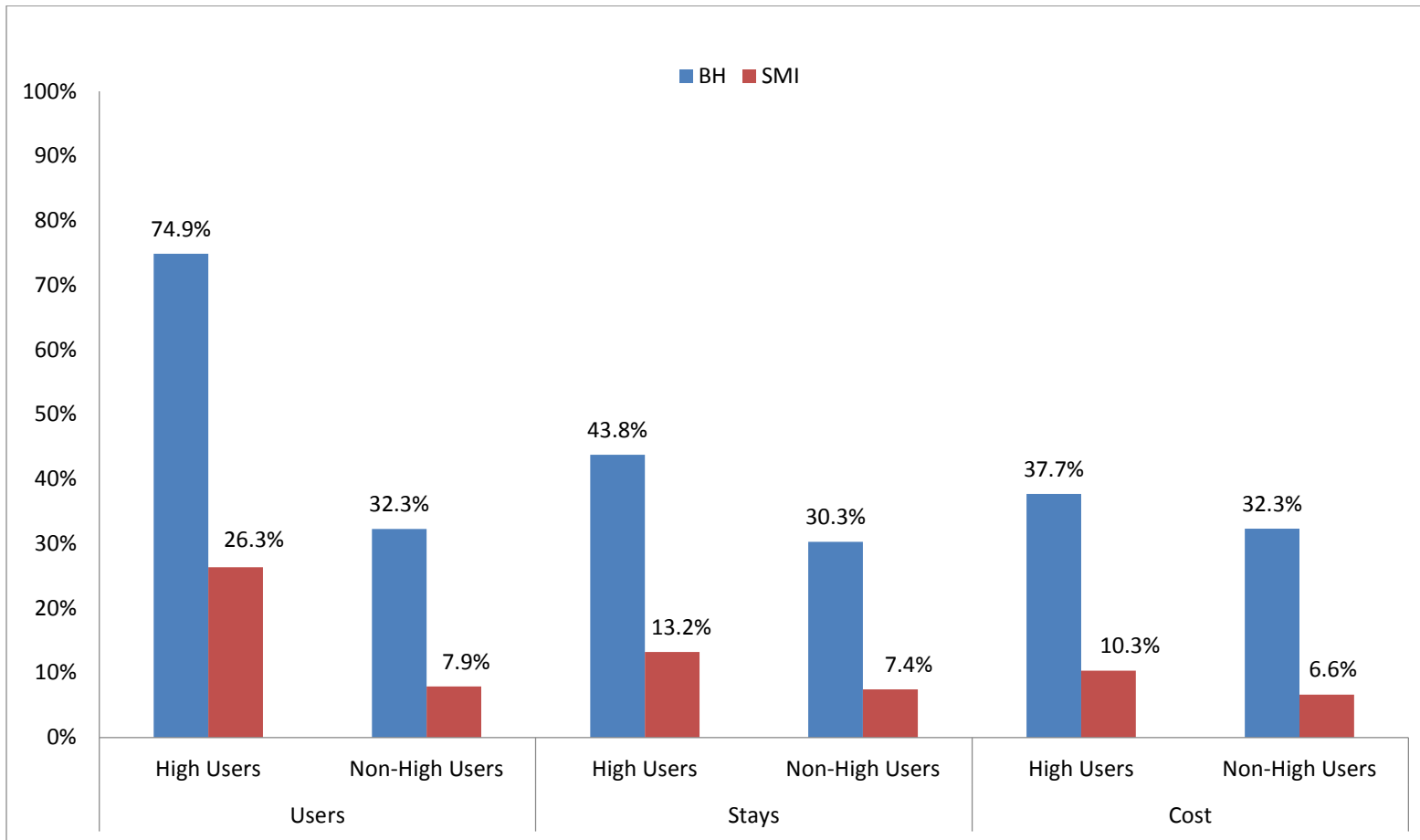
Table 15. Percent of all ED visits with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	39.1%	14.9%	25.2%	5.3%	24.0%	6.8%	16.2%	2.5%	24.8%	5.1%	29.4%	5.1%	23.2%	4.9%
Atlantic City	37.7%	12.9%	28.2%	8.0%	28.9%	8.2%	19.2%	3.0%	34.9%	6.6%	28.5%	3.4%	26.8%	5.0%
Camden	18.5%	5.1%	16.4%	4.4%	12.3%	3.1%	7.7%	1.3%	16.4%	3.1%	12.5%	2.2%	11.4%	2.3%
Elizabeth	24.9%	5.7%	23.6%	5.8%	18.8%	6.1%	12.2%	1.5%	16.0%	2.7%	17.3%	1.7%	15.3%	2.5%
Jersey City	17.7%	3.7%	14.5%	2.7%	13.7%	2.8%	8.6%	0.8%	19.6%	1.9%	17.2%	1.8%	13.8%	1.7%
New Brunswick	25.6%	8.3%	20.7%	5.6%	18.4%	6.1%	10.1%	1.6%	10.8%	1.9%	15.5%	1.9%	13.2%	2.3%
Newark	30.0%	9.7%	22.2%	5.2%	28.7%	8.8%	16.4%	1.7%	26.1%	3.5%	28.9%	3.3%	23.5%	3.8%
Paterson	18.8%	5.5%	14.9%	3.2%	17.4%	4.7%	10.6%	1.3%	16.3%	2.2%	17.8%	1.6%	14.0%	2.0%
Perth Amboy	27.2%	7.2%	20.5%	4.9%	17.6%	3.4%	12.5%	1.2%	23.3%	2.1%	20.1%	1.6%	17.5%	2.3%
Plainfield	28.3%	12.1%	19.8%	5.9%	11.8%	3.2%	10.0%	1.7%	12.6%	2.8%	15.8%	1.8%	13.0%	2.6%
Trenton	26.3%	7.7%	17.4%	4.1%	18.2%	4.7%	12.9%	1.4%	24.4%	3.2%	21.1%	2.1%	18.4%	2.9%
Union City	17.3%	3.7%	13.8%	2.7%	12.0%	3.0%	9.0%	1.3%	10.6%	1.8%	19.6%	1.4%	13.0%	1.7%
Vineland	20.9%	6.4%	14.4%	2.6%	13.8%	2.9%	9.9%	1.4%	13.8%	2.1%	15.9%	2.3%	13.1%	2.3%
13 ACO Regions	25.3%	7.8%	19.0%	4.4%	19.6%	5.4%	12.3%	1.5%	20.6%	3.0%	21.7%	2.5%	17.5%	2.8%
All NJ	31.8%	11.2%	20.1%	3.9%	22.0%	6.1%	13.8%	2.1%	22.1%	3.6%	21.8%	3.0%	17.8%	3.2%

Table 16. Percent of ED costs associated with BH/SMI

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private		Charity Care		Self-Pay		All Payer	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	43.4%	16.2%	29.4%	6.2%	28.3%	8.4%	19.7%	2.8%	29.2%	5.6%	33.6%	6.2%	27.0%	5.8%
Atlantic City	38.5%	12.6%	31.7%	7.6%	31.8%	9.4%	22.4%	3.2%	37.1%	6.8%	31.0%	4.1%	29.5%	5.4%
Camden	22.0%	5.3%	21.0%	3.8%	15.1%	3.5%	10.2%	1.6%	21.2%	4.2%	17.5%	2.9%	15.4%	2.8%
Elizabeth	28.5%	6.8%	27.0%	5.6%	19.8%	5.9%	14.6%	1.8%	18.6%	3.0%	21.3%	2.0%	18.3%	2.8%
Jersey City	28.1%	5.3%	23.6%	3.4%	20.2%	5.2%	13.0%	1.3%	24.2%	3.5%	23.0%	3.5%	19.5%	3.0%
New Brunswick	29.5%	8.7%	25.7%	5.8%	23.2%	8.7%	13.1%	2.1%	13.0%	2.6%	20.5%	2.7%	17.0%	3.1%
Newark	32.6%	11.2%	23.6%	5.2%	32.9%	9.9%	19.0%	2.1%	31.0%	4.3%	35.5%	4.3%	27.7%	4.6%
Paterson	21.1%	7.2%	18.0%	4.1%	20.3%	6.5%	12.8%	1.8%	18.7%	3.0%	20.9%	2.4%	16.6%	2.9%
Perth Amboy	35.1%	9.0%	26.5%	5.2%	23.3%	6.1%	17.2%	1.8%	25.5%	2.5%	26.0%	2.7%	23.1%	3.6%
Plainfield	30.4%	12.1%	22.2%	6.9%	15.4%	4.3%	12.5%	2.1%	15.5%	3.5%	20.1%	2.8%	16.1%	3.3%
Trenton	24.2%	6.7%	16.2%	3.5%	16.5%	4.7%	11.6%	1.6%	21.2%	3.1%	18.9%	2.5%	16.4%	2.9%
Union City	18.5%	3.5%	16.4%	3.3%	14.7%	4.2%	10.4%	1.6%	12.0%	2.3%	19.6%	1.8%	14.2%	2.2%
Vineland	21.3%	6.3%	14.8%	2.6%	15.2%	3.2%	11.0%	1.5%	16.2%	2.3%	18.2%	2.4%	14.4%	2.4%
13 ACO Regions	28.2%	8.5%	22.1%	4.5%	22.7%	6.5%	14.9%	1.9%	24.3%	3.8%	26.1%	3.3%	20.8%	3.6%
All NJ	35.6%	12.4%	24.8%	4.4%	25.4%	7.6%	16.8%	2.7%	26.2%	4.6%	26.1%	3.9%	21.4%	3.9%

Figure 7. Behavioral health problems in all hospital users by IP high user status

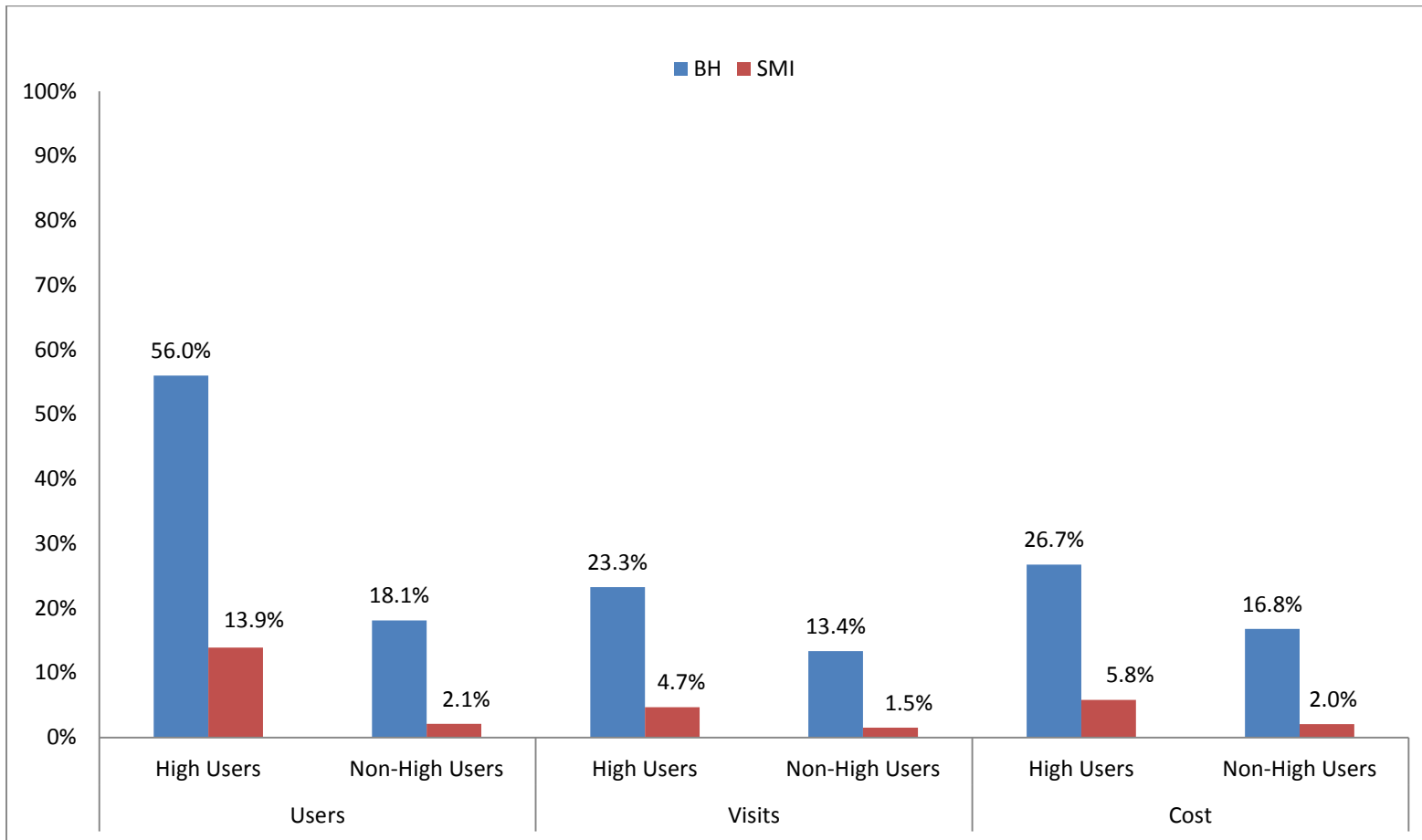


Aggregated for 13 ACO regions.

Table 17. Behavioral health problems in all hospital users by IP high user status

ACO Regions	Users				Stays				Cost			
	High Users		Non-High Users		High Users		Non-High Users		High Users		Non-High Users	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	77.9%	29.8%	38.9%	8.2%	49.3%	15.5%	36.2%	7.5%	43.0%	13.8%	36.3%	7.3%
Atlantic City	81.4%	33.1%	43.7%	11.3%	54.8%	17.7%	41.1%	10.4%	46.8%	13.1%	41.9%	8.2%
Camden	77.9%	29.3%	41.3%	10.5%	46.6%	15.3%	38.0%	9.6%	37.6%	11.0%	38.3%	8.9%
Elizabeth	72.3%	22.2%	29.7%	6.0%	40.0%	9.8%	27.8%	5.6%	35.3%	8.5%	31.5%	5.6%
Jersey City	70.1%	20.8%	27.9%	6.1%	38.2%	9.0%	26.0%	5.8%	32.6%	7.0%	27.3%	4.9%
New Brunswick	71.9%	23.6%	26.0%	5.5%	40.2%	11.1%	24.4%	5.1%	35.7%	9.9%	28.9%	5.8%
Newark	79.7%	30.5%	37.7%	11.0%	48.4%	16.6%	35.9%	10.6%	41.8%	12.6%	37.6%	9.0%
Paterson	69.3%	25.5%	27.2%	7.1%	39.7%	13.3%	25.6%	6.7%	34.4%	10.3%	27.5%	6.0%
Perth Amboy	74.1%	25.3%	27.2%	7.0%	42.9%	13.3%	25.6%	6.8%	38.1%	11.3%	28.1%	6.0%
Plainfield	62.7%	22.3%	25.7%	6.6%	33.1%	10.5%	24.4%	6.3%	28.6%	9.5%	26.7%	6.4%
Trenton	76.9%	28.0%	38.3%	8.8%	45.8%	14.4%	35.6%	8.0%	37.4%	10.6%	34.0%	6.3%
Union City	75.8%	23.7%	26.3%	5.2%	42.7%	9.1%	24.8%	4.8%	38.1%	7.6%	29.2%	4.9%
Vineland	72.4%	21.1%	32.5%	6.6%	36.2%	8.9%	29.2%	5.8%	32.4%	7.0%	30.2%	4.8%
13 ACO Regions	74.9%	26.3%	32.3%	7.9%	43.8%	13.2%	30.3%	7.4%	37.7%	10.3%	32.3%	6.6%
All NJ	76.7%	25.5%	35.8%	7.6%	45.3%	12.4%	33.4%	7.0%	38.9%	10.0%	34.6%	6.3%

Figure 8. Behavioral health problems in all ED users by ED high user status

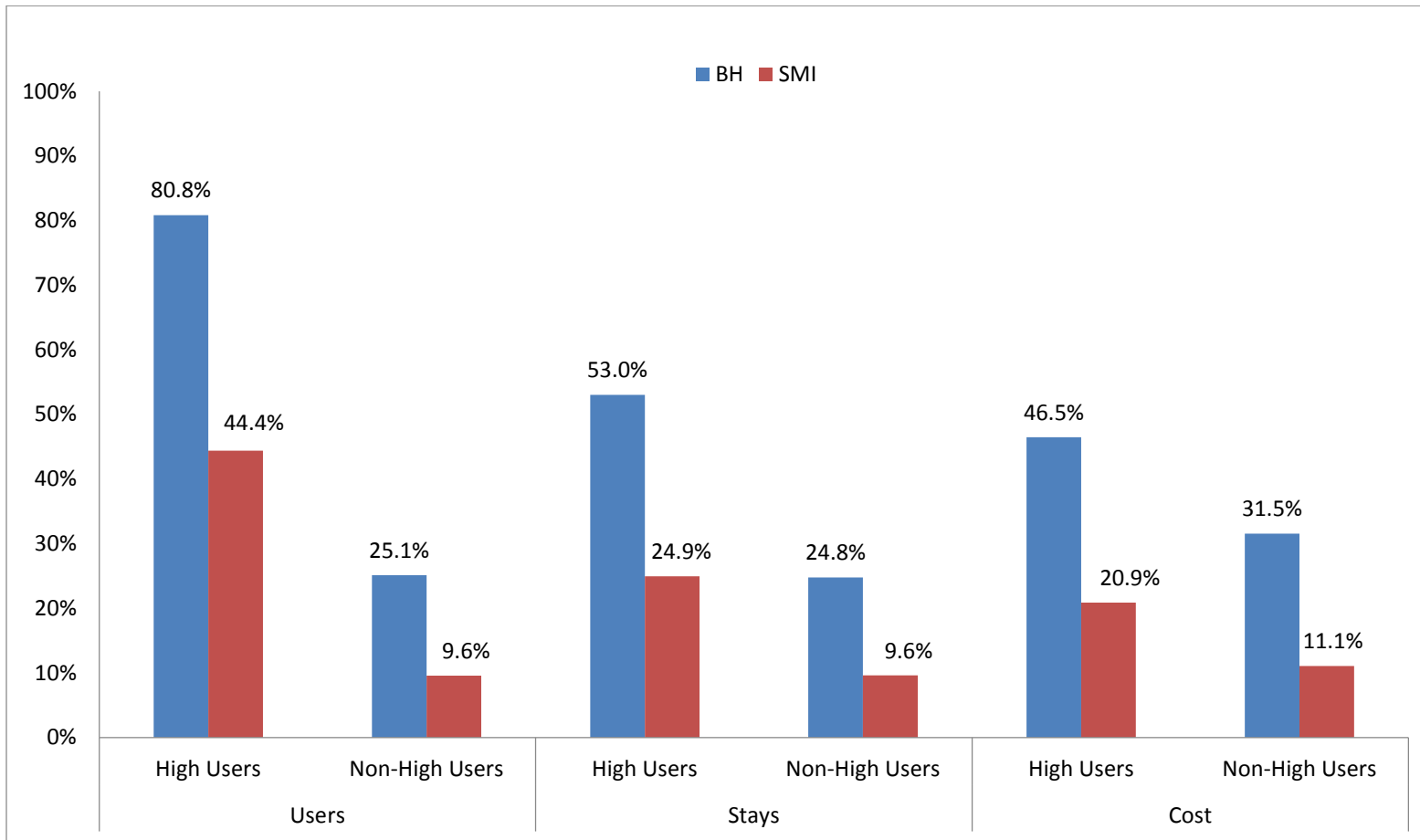


Aggregated for 13 ACO regions.

Table 18. Behavioral health problems in all ED users by ED high user status

ACO Regions	Users				Visits				Cost			
	High Users		Non-High Users		High Users		Non-High Users		High Users		Non-High Users	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	66.4%	18.6%	22.9%	3.3%	29.7%	7.7%	17.9%	2.7%	34.1%	9.4%	22.1%	3.3%
Atlantic City	71.2%	16.3%	27.3%	3.4%	32.5%	7.0%	20.1%	2.7%	35.1%	7.5%	23.5%	3.2%
Camden	43.6%	11.4%	13.8%	2.1%	13.2%	3.0%	8.9%	1.3%	17.1%	3.8%	13.2%	1.7%
Elizabeth	50.7%	13.4%	16.0%	1.8%	21.6%	4.7%	11.9%	1.3%	25.1%	5.4%	14.9%	1.5%
Jersey City	52.5%	12.0%	13.7%	1.4%	20.5%	2.9%	9.9%	1.0%	26.7%	5.0%	15.6%	1.8%
New Brunswick	48.2%	13.2%	14.0%	1.7%	17.7%	4.1%	10.6%	1.3%	22.1%	5.6%	14.4%	1.8%
Newark	63.2%	16.1%	24.2%	2.7%	30.2%	6.2%	18.2%	1.9%	34.7%	7.5%	22.4%	2.5%
Paterson	53.4%	11.0%	15.4%	1.5%	19.7%	3.7%	11.0%	1.1%	22.7%	5.1%	13.4%	1.7%
Perth Amboy	61.0%	13.4%	19.6%	1.8%	23.5%	4.2%	14.3%	1.3%	29.8%	6.4%	19.6%	2.2%
Plainfield	46.1%	13.5%	15.0%	2.2%	16.0%	4.1%	11.3%	1.7%	20.1%	5.3%	14.1%	2.3%
Trenton	54.5%	13.5%	19.5%	2.5%	22.4%	4.0%	14.1%	1.7%	20.0%	4.2%	12.9%	1.7%
Union City	48.1%	12.1%	14.6%	1.5%	19.0%	3.5%	11.0%	1.1%	20.7%	4.4%	12.1%	1.5%
Vineland	56.2%	15.4%	14.9%	2.2%	17.6%	3.7%	10.3%	1.4%	19.1%	3.9%	11.7%	1.6%
13 ACO Regions	56.0%	13.9%	18.1%	2.1%	23.3%	4.7%	13.4%	1.5%	26.7%	5.8%	16.8%	2.0%
All NJ	60.0%	18.1%	18.0%	2.5%	25.0%	5.7%	14.2%	1.9%	29.2%	7.2%	17.9%	2.5%

Figure 9. Behavioral health problems in Medicaid-paid hospital users by IP high-user status

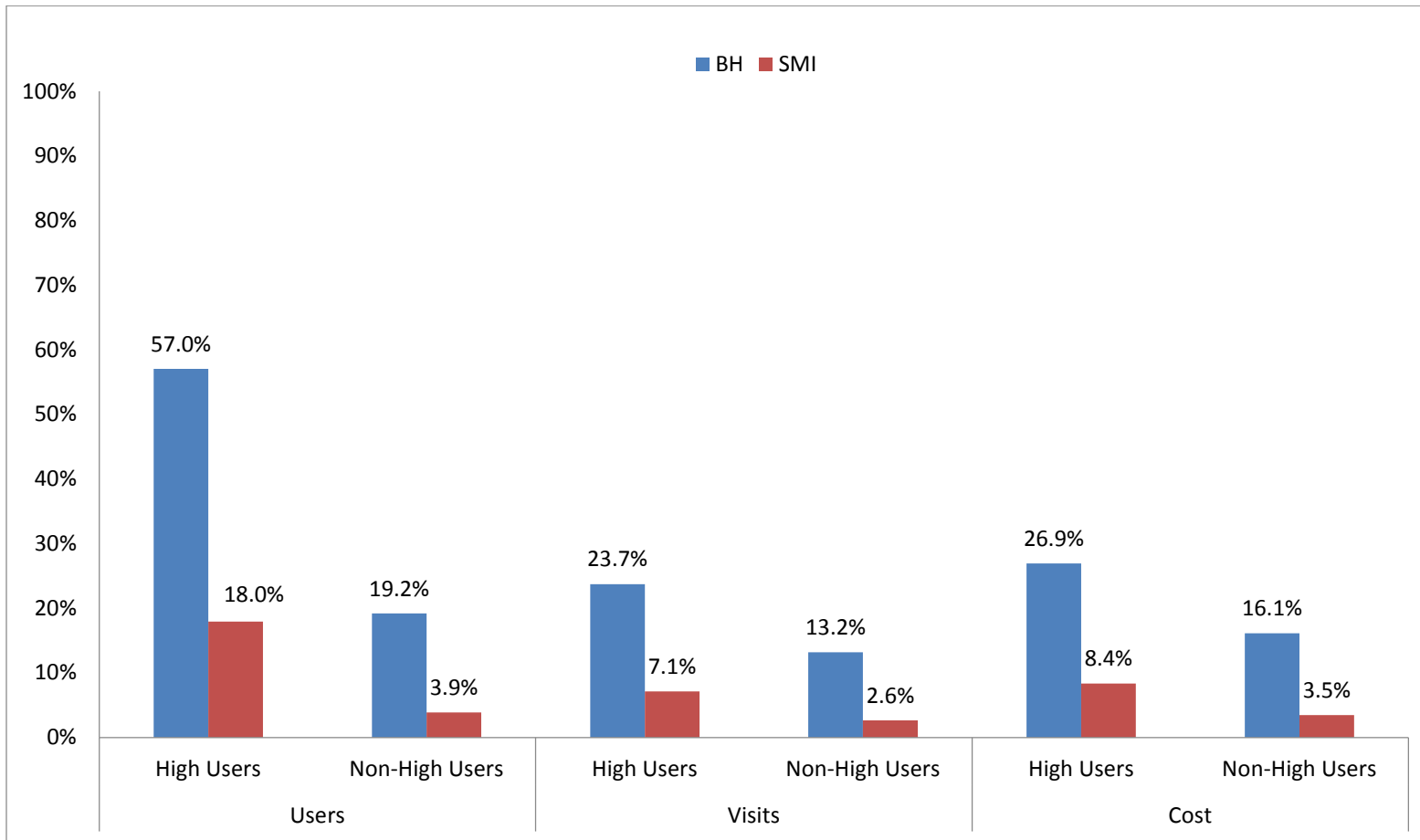


Aggregated for 13 ACO regions.

Table 19. Behavioral health problems in Medicaid-paid hospital users by IP high-user status

ACO Regions	Users				Stays				Cost			
	High Users		Non-High Users		High Users		Non-High Users		High Users		Non-High Users	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	83.1%	48.9%	32.0%	10.3%	64.0%	27.5%	30.7%	10.1%	56.7%	27.6%	35.3%	12.3%
Atlantic City	88.1%	57.2%	29.4%	13.9%	67.3%	39.1%	29.0%	13.6%	60.8%	29.0%	38.0%	13.5%
Camden	79.3%	38.5%	30.7%	10.0%	49.7%	19.4%	29.0%	9.6%	41.5%	15.2%	34.6%	11.4%
Elizabeth	78.5%	38.0%	19.1%	6.6%	45.6%	18.4%	19.3%	7.1%	40.8%	16.9%	30.9%	10.5%
Jersey City	75.8%	33.7%	22.6%	7.5%	43.8%	15.0%	21.7%	7.4%	37.5%	12.8%	26.2%	8.6%
New Brunswick	69.6%	41.8%	12.5%	5.5%	43.4%	23.3%	12.6%	5.4%	33.7%	20.1%	18.6%	6.4%
Newark	86.6%	51.8%	30.4%	12.7%	58.7%	30.5%	30.7%	12.9%	52.7%	25.8%	38.4%	14.3%
Paterson	74.0%	45.8%	23.2%	10.5%	50.6%	29.7%	23.2%	10.8%	42.2%	23.4%	26.8%	10.4%
Perth Amboy	76.9%	38.8%	17.9%	6.8%	52.9%	25.2%	17.8%	7.2%	49.1%	22.4%	22.6%	7.7%
Plainfield	74.3%	44.6%	12.6%	5.3%	46.5%	21.6%	13.2%	5.6%	47.3%	20.7%	20.7%	8.0%
Trenton	81.8%	44.4%	33.0%	11.8%	53.7%	25.9%	31.4%	10.8%	44.7%	19.8%	35.0%	11.4%
Union City	73.9%	37.3%	14.5%	5.7%	47.4%	20.1%	14.2%	5.8%	42.2%	17.9%	22.1%	7.4%
Vineland	77.1%	36.8%	26.9%	9.2%	44.4%	15.2%	24.5%	8.5%	39.5%	11.9%	28.8%	8.8%
13 ACO Regions	80.8%	44.4%	25.1%	9.6%	53.0%	24.9%	24.8%	9.6%	46.5%	20.9%	31.5%	11.1%
All NJ	82.7%	48.1%	27.6%	10.9%	56.8%	27.8%	27.1%	10.8%	49.3%	22.9%	34.2%	12.4%

Figure 10. Behavioral health problems in Medicaid-paid ED users by ED high-user status

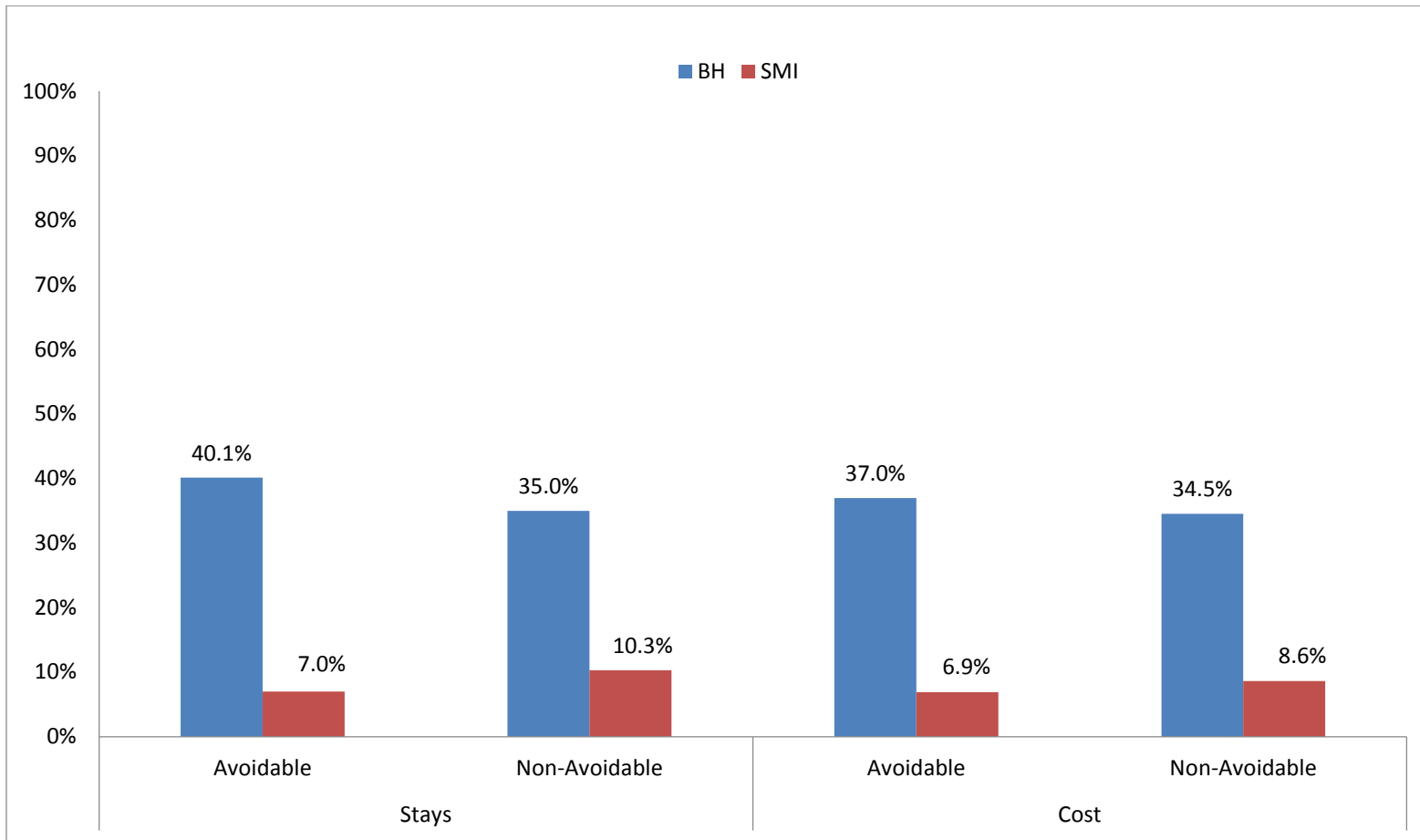


Aggregated for 13 ACO regions.

Table 20. Behavioral health problems in Medicaid-paid ED users by ED high-user status

ACO Regions	Users				Visits				Cost			
	High Users		Non-High Users		High Users		Non-High Users		High Users		Non-High Users	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	65.0%	16.2%	26.5%	4.9%	26.8%	8.3%	17.6%	3.6%	31.4%	10.2%	21.4%	4.5%
Atlantic City	67.4%	23.1%	27.4%	6.9%	32.7%	9.4%	20.6%	5.5%	35.8%	10.5%	23.7%	7.3%
Camden	44.6%	13.3%	13.0%	2.8%	14.0%	3.7%	8.3%	1.8%	17.0%	4.1%	11.4%	2.1%
Elizabeth	55.9%	23.5%	16.0%	3.9%	26.2%	9.6%	11.3%	2.7%	28.4%	9.6%	11.4%	2.3%
Jersey City	52.1%	13.6%	14.3%	2.5%	17.2%	3.6%	9.3%	1.7%	24.3%	6.8%	14.9%	3.1%
New Brunswick	56.7%	28.1%	13.8%	3.7%	24.5%	8.4%	10.5%	3.1%	31.4%	12.5%	13.9%	4.4%
Newark	66.5%	23.3%	26.5%	5.3%	34.4%	11.7%	18.8%	3.6%	38.6%	12.8%	22.9%	4.8%
Paterson	57.2%	18.5%	17.7%	3.1%	22.2%	7.2%	12.1%	2.2%	25.7%	9.7%	14.3%	3.0%
Perth Amboy	61.1%	15.5%	19.5%	2.6%	22.2%	4.9%	12.9%	1.8%	29.4%	8.5%	17.0%	3.6%
Plainfield	46.2%	13.9%	14.1%	4.3%	12.9%	3.3%	9.8%	3.1%	18.0%	5.1%	11.7%	3.3%
Trenton	50.2%	15.2%	21.9%	5.3%	19.9%	5.4%	14.1%	3.2%	18.0%	5.3%	12.9%	3.4%
Union City	51.5%	16.4%	12.3%	2.6%	16.9%	4.6%	8.7%	1.9%	21.2%	6.7%	10.3%	2.4%
Vineland	56.9%	16.1%	16.8%	3.1%	16.2%	3.6%	10.3%	1.8%	17.6%	4.2%	11.8%	1.8%
13 ACO Regions	57.0%	18.0%	19.2%	3.9%	23.7%	7.1%	13.2%	2.6%	26.9%	8.4%	16.1%	3.5%
All NJ	62.2%	21.9%	21.6%	4.9%	26.3%	7.9%	15.4%	3.5%	29.9%	9.6%	18.7%	4.5%

Figure 11. Percent of avoidable and non-avoidable IP hospitalizations and costs with BH problems

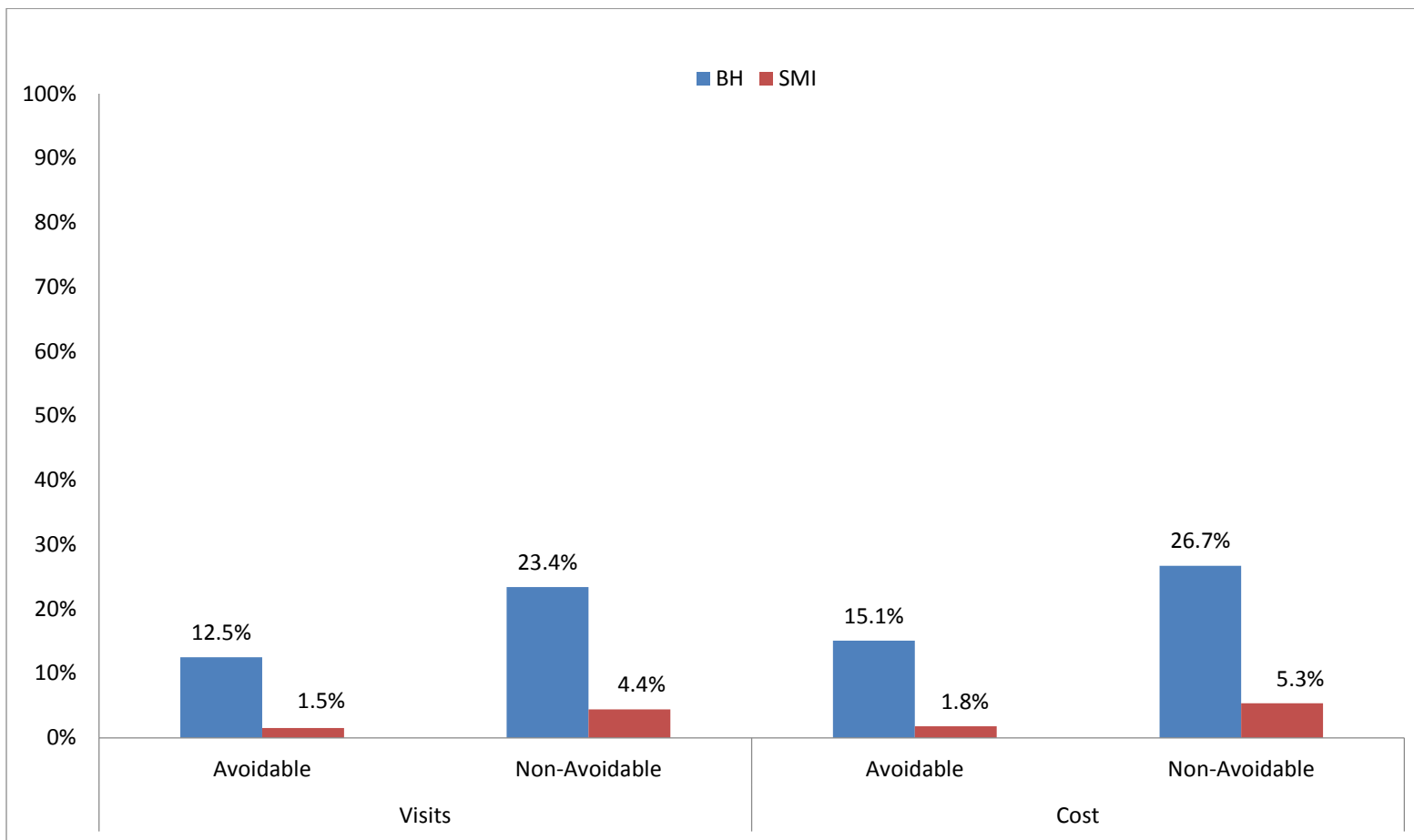


Aggregated for 13 ACO regions.

Table 21. Percent of avoidable and non-avoidable IP hospitalizations and costs with BH problems

ACO Regions	Stays				Cost			
	ACS		Non-ACS		ACS		Non-ACS	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	47.8%	10.9%	40.6%	10.5%	43.0%	10.8%	39.3%	10.2%
Atlantic City	52.7%	10.2%	47.2%	15.0%	45.9%	8.8%	44.7%	10.9%
Camden	44.7%	7.2%	40.9%	12.8%	38.4%	7.0%	37.8%	10.1%
Elizabeth	37.8%	5.8%	30.9%	7.0%	35.8%	5.9%	32.8%	6.8%
Jersey City	33.9%	4.9%	30.5%	7.6%	31.0%	5.0%	29.4%	6.0%
New Brunswick	39.0%	6.8%	28.3%	6.8%	35.6%	6.5%	31.2%	7.3%
Newark	44.9%	8.2%	41.2%	14.5%	41.5%	7.8%	39.7%	11.6%
Paterson	34.8%	5.9%	29.9%	9.8%	33.1%	6.0%	29.9%	8.3%
Perth Amboy	33.1%	7.2%	32.4%	9.4%	33.0%	7.5%	32.7%	8.2%
Plainfield	31.5%	6.8%	25.9%	7.3%	27.6%	6.3%	27.1%	7.3%
Trenton	42.9%	8.6%	39.7%	11.5%	37.3%	8.3%	35.5%	8.5%
Union City	40.4%	6.2%	29.8%	6.3%	39.8%	6.8%	32.2%	6.1%
Vineland	34.7%	5.5%	30.3%	6.6%	33.3%	5.9%	30.3%	5.3%
13 ACO Regions	40.1%	7.0%	35.0%	10.3%	37.0%	6.9%	34.5%	8.6%
All NJ	43.6%	7.3%	36.8%	9.2%	40.1%	7.3%	35.9%	7.9%

Figure 12. Percent of avoidable and non-avoidable ED visits and costs with BH problems

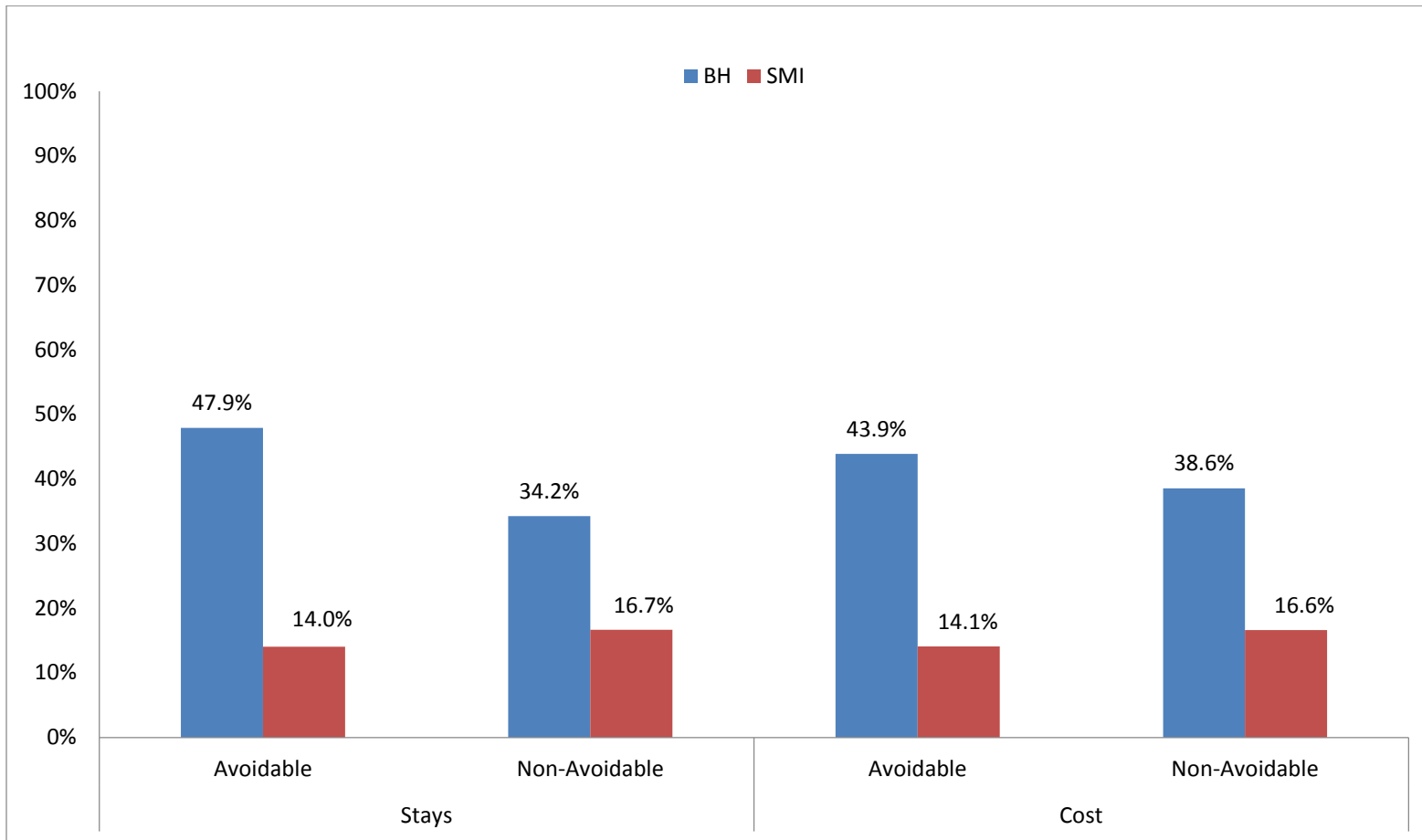


Aggregated for 13 ACO regions.

Table 22. Percent of avoidable and non-avoidable ED visits and costs with BH problems

ACO Regions	Visits				Cost			
	ACS		Non-ACS		ACS		Non-ACS	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	19.7%	3.3%	27.5%	7.0%	23.4%	3.8%	30.6%	7.8%
Atlantic City	23.7%	4.4%	34.0%	7.3%	25.7%	4.2%	36.6%	8.0%
Camden	5.9%	0.8%	18.7%	4.2%	9.3%	1.2%	21.9%	4.3%
Elizabeth	10.1%	1.1%	20.3%	3.9%	12.1%	1.3%	22.8%	3.8%
Jersey City	6.7%	0.6%	21.2%	2.7%	13.1%	1.3%	25.5%	4.5%
New Brunswick	7.7%	1.0%	19.1%	3.9%	10.0%	1.2%	23.8%	4.9%
Newark	19.6%	2.1%	29.0%	6.1%	21.9%	2.3%	34.3%	7.2%
Paterson	8.6%	0.8%	19.3%	3.2%	9.9%	0.9%	22.1%	4.5%
Perth Amboy	12.7%	1.2%	23.0%	3.4%	17.7%	2.3%	29.6%	5.5%
Plainfield	7.8%	1.5%	18.3%	3.9%	10.0%	1.8%	21.2%	4.9%
Trenton	13.0%	1.6%	25.6%	4.4%	10.6%	1.5%	22.6%	4.5%
Union City	5.1%	0.4%	20.9%	2.9%	6.6%	0.5%	21.2%	3.6%
Vineland	8.5%	1.2%	16.5%	3.1%	9.7%	1.3%	17.5%	3.0%
13 ACO Regions	12.5%	1.5%	23.4%	4.4%	15.1%	1.8%	26.7%	5.3%
All NJ	13.3%	1.7%	21.8%	4.4%	16.7%	2.3%	25.3%	5.3%

Figure 13. Percent of Medicaid-paid avoidable and non-avoidable IP hospitalizations and costs with BH problems

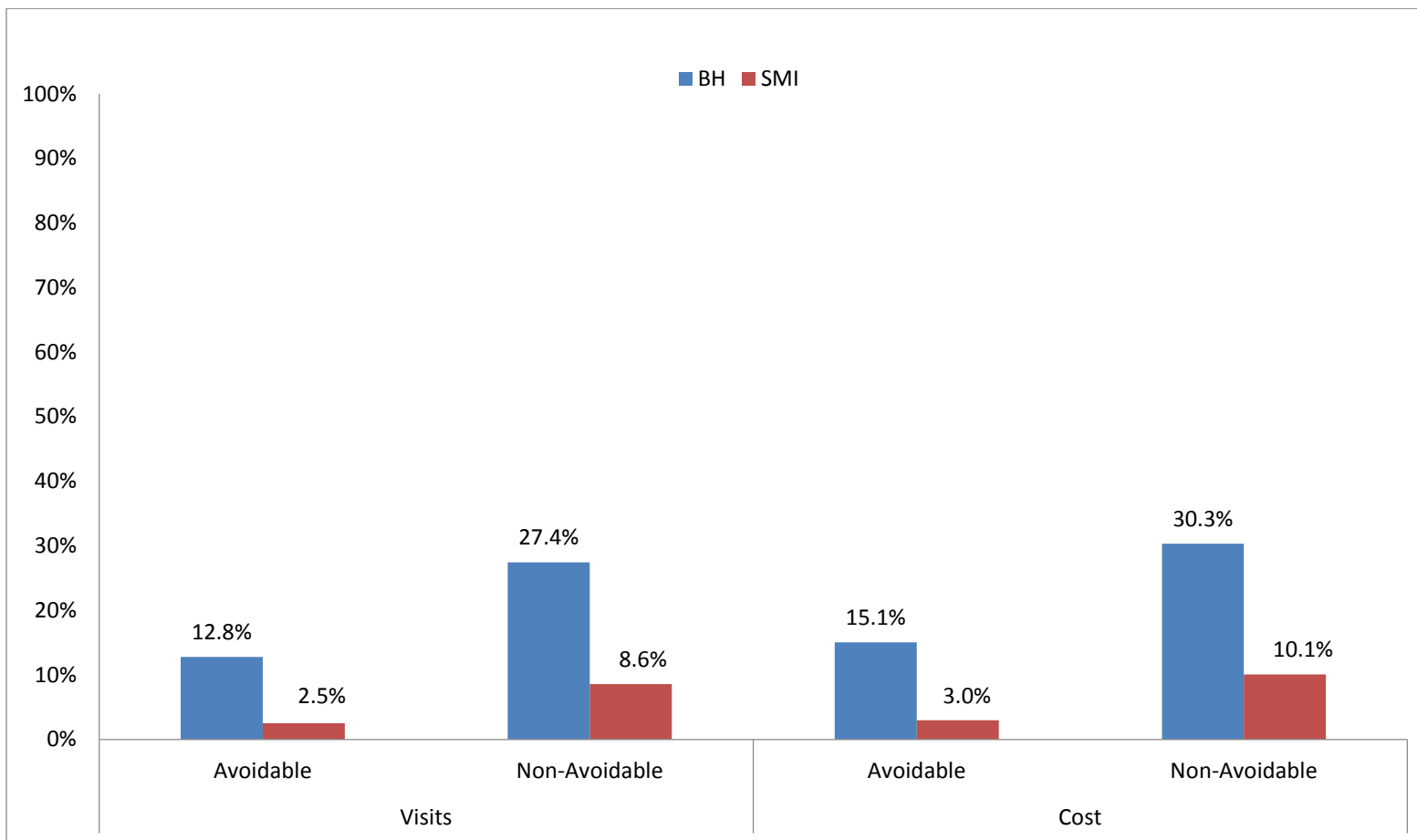


Aggregated for 13 ACO regions.

Table 23. Percent of Medicaid-paid avoidable and non-avoidable IP hospitalizations and costs with BH problems

ACO Regions	Stays				Cost			
	ACS		Non-ACS		ACS		Non-ACS	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	60.9%	22.3%	38.8%	13.6%	50.8%	22.5%	44.4%	15.6%
Atlantic City	58.3%	25.8%	48.2%	28.8%	49.0%	18.7%	49.2%	22.4%
Camden	45.2%	9.4%	35.0%	13.2%	42.4%	11.5%	36.8%	12.7%
Elizabeth	42.2%	11.9%	22.0%	8.7%	38.6%	11.7%	33.6%	11.9%
Jersey City	42.1%	9.9%	29.0%	11.1%	35.9%	9.5%	31.9%	10.8%
New Brunswick	41.2%	13.7%	14.3%	6.9%	35.9%	14.0%	22.4%	9.4%
Newark	52.7%	16.2%	43.9%	24.4%	49.2%	16.1%	46.8%	22.9%
Paterson	47.1%	14.9%	35.5%	21.6%	44.6%	16.4%	36.2%	19.5%
Perth Amboy	37.2%	15.0%	25.4%	12.2%	43.2%	20.8%	31.8%	13.1%
Plainfield	41.2%	18.3%	16.4%	8.5%	40.8%	17.5%	25.5%	12.4%
Trenton	54.1%	13.9%	37.7%	16.9%	45.5%	11.8%	36.7%	15.2%
Union City	40.9%	12.9%	19.8%	8.3%	36.4%	11.9%	27.6%	10.0%
Vineland	39.4%	11.2%	27.3%	9.4%	43.3%	13.3%	30.9%	8.4%
13 ACO Regions	47.9%	14.0%	34.2%	16.7%	43.9%	14.1%	38.6%	16.6%
All NJ	51.6%	16.1%	36.5%	17.6%	47.0%	15.8%	40.5%	17.5%

Figure 14. Percent of Medicaid-paid avoidable and non-avoidable ED visits and costs with BH problems



Aggregated for 13 ACO regions.

Table 24. Percent of Medicaid-paid avoidable and non-avoidable ED visits and costs with BH problems

ACO Regions	Visits				Cost			
	ACS		Non-ACS		ACS		Non-ACS	
	BH	SMI	BH	SMI	BH	SMI	BH	SMI
Asbury Park	21.8%	4.3%	31.8%	11.2%	25.6%	4.8%	35.4%	12.8%
Atlantic City	23.7%	7.8%	40.9%	15.7%	25.6%	7.6%	44.5%	17.4%
Camden	5.8%	1.1%	24.5%	6.9%	8.3%	1.6%	25.6%	6.4%
Elizabeth	11.3%	2.3%	26.5%	9.5%	12.1%	2.3%	25.5%	8.3%
Jersey City	6.7%	1.1%	22.8%	5.0%	14.0%	3.0%	29.8%	9.5%
New Brunswick	12.8%	3.5%	32.3%	11.1%	15.1%	4.0%	39.1%	14.6%
Newark	21.1%	4.0%	35.6%	13.2%	24.0%	4.3%	40.7%	15.1%
Paterson	11.3%	1.8%	25.2%	7.4%	12.2%	1.8%	28.6%	10.0%
Perth Amboy	13.5%	1.4%	24.4%	5.6%	17.9%	3.1%	31.8%	9.5%
Plainfield	7.1%	2.3%	17.9%	6.5%	9.6%	3.0%	22.1%	8.6%
Trenton	10.7%	2.7%	27.5%	7.7%	9.6%	2.4%	24.6%	8.0%
Union City	4.4%	0.7%	20.2%	6.0%	5.7%	0.8%	22.5%	7.6%
Vineland	8.4%	1.6%	17.7%	4.2%	8.9%	1.6%	18.7%	4.1%
13 ACO Regions	12.8%	2.5%	27.4%	8.6%	15.1%	3.0%	30.3%	10.1%
All NJ	14.9%	3.0%	29.8%	9.6%	17.4%	3.7%	33.3%	11.5%

Section 2: Annual Behavioral Health Costs– Overall and as a Component of Avoidable Hospitalizations or High IP/ED Use

Table 25. Annual inpatient behavioral health costs by payer

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
Asbury Park	5,577,591	16,217,920	5,007,108	8,863,407	3,485,135	2,890,609	41,463,574
Atlantic City	7,565,520	11,766,988	3,013,449	11,132,716	9,681,467	3,756,957	47,123,852
Camden	5,976,993	8,064,899	7,594,584	8,786,550	7,455,547	4,841,452	43,268,234
Elizabeth	2,465,805	21,441,791	4,996,275	15,261,479	9,010,338	2,818,637	56,146,002
Jersey City	10,270,075	37,468,535	12,716,574	22,095,948	18,800,364	4,769,084	104,812,200
New Brunswick	4,180,008	13,262,690	1,281,825	10,118,447	3,540,182	2,664,238	35,835,841
Newark	41,372,794	56,890,482	41,362,902	49,227,436	38,863,331	24,029,289	253,573,427
Paterson	13,759,968	24,846,922	5,809,868	23,485,364	17,078,280	5,830,542	92,900,232
Perth Amboy	5,014,145	5,681,692	2,594,189	3,632,277	1,952,319	1,335,259	20,338,235
Plainfield	2,410,202	6,367,822	1,582,289	5,136,289	2,415,557	1,155,157	19,243,800
Trenton	7,283,143	18,011,417	8,044,893	12,750,276	11,823,984	5,183,322	64,887,629
Union City	14,498,178	22,683,404	4,447,330	12,084,926	5,256,624	2,779,039	63,450,041
Vineland	6,723,046	18,694,745	4,397,578	8,793,731	1,806,746	3,087,346	37,143,517
13 ACO Regions	127,097,470	261,399,306	102,848,864	191,368,845	131,169,872	65,140,931	880,186,583
All NJ	306,939,618	1,491,987,089	199,900,304	968,675,913	275,021,804	165,492,682	3,458,332,851

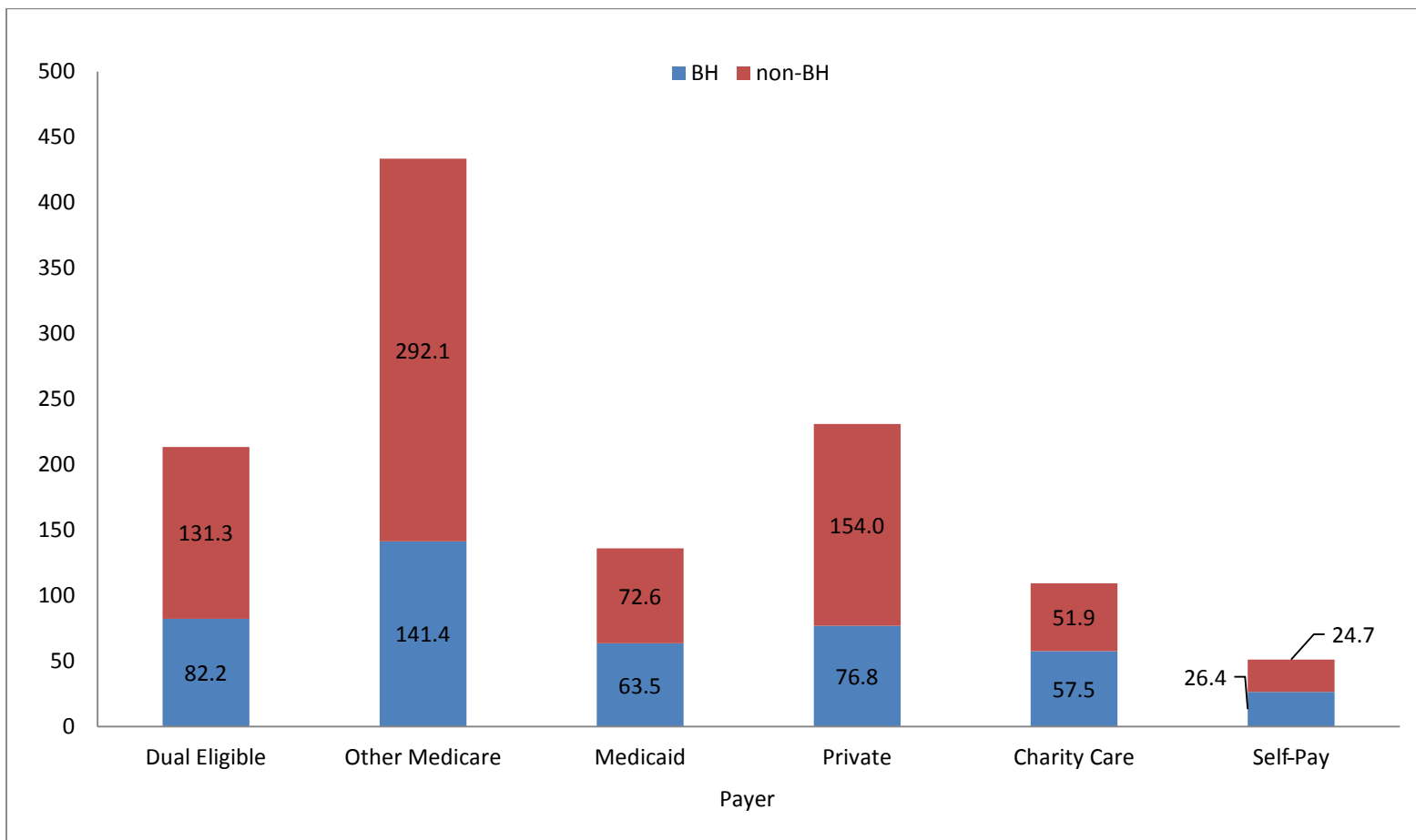
Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Table 26. Annual ED behavioral health costs by payers

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
Asbury Park	232,659	419,947	469,609	560,256	287,012	622,177	3,063,481
Atlantic City	448,471	550,747	329,906	1,383,932	1,510,146	1,278,322	6,321,124
Camden	369,266	413,040	651,735	750,414	568,990	1,104,611	4,233,626
Elizabeth	81,140	606,780	288,786	1,017,962	680,537	692,070	3,693,535
Jersey City	246,782	662,345	663,419	1,034,014	1,305,565	917,643	6,672,005
New Brunswick	119,155	307,281	109,276	633,014	190,807	638,335	2,202,669
Newark	1,440,669	1,343,770	3,861,750	4,934,404	4,045,959	8,215,444	25,584,182
Paterson	362,974	428,191	444,450	1,499,704	1,242,080	1,211,123	5,549,661
Perth Amboy	223,829	213,180	372,513	429,447	317,270	485,994	2,555,689
Plainfield	81,804	165,973	112,225	333,089	128,666	386,218	1,377,644
Trenton	396,290	495,500	918,259	1,005,947	1,096,254	1,297,317	5,900,519
Union City	183,357	258,227	222,777	577,133	306,514	723,871	2,827,352
Vineland	257,151	470,691	463,051	631,045	153,144	591,308	3,178,695
13 ACO Regions	4,443,547	6,335,673	8,907,755	14,790,361	11,832,944	18,164,433	73,160,182
All NJ	13,654,684	44,855,030	19,000,703	74,277,003	24,156,213	40,131,310	244,162,278

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

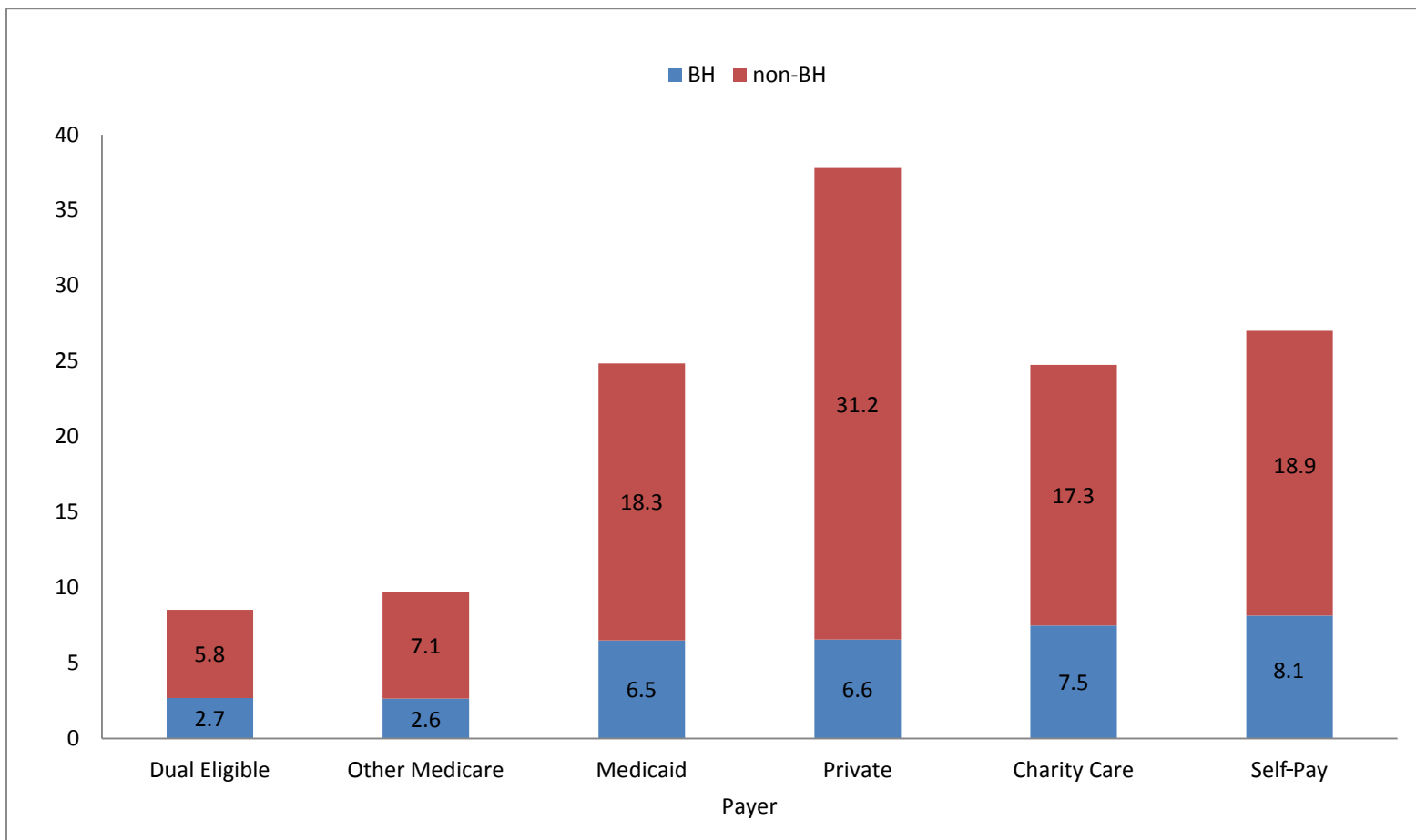
Figure 15. Annual inpatient high use costs associated with BH (millions of 2011 dollars)



Aggregated for 13 ACO regions.

Annualized total high use costs classified into behavioral health and non-behavioral health components.

Figure 16. Annual ED high use costs associated with BH (millions of 2011 dollars)



Aggregated for 13 ACO regions.

Annualized total high use costs classified into behavioral health and non-behavioral health components.

Table 27. Annual Inpatient high use costs, and component associated with BH

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private	
	Total	BH	Total	BH	Total	BH	Total	BH
Asbury Park	7,880,325	3,733,389	23,089,327	8,376,043	5,978,069	3,378,920	8,294,047	3,352,968
Atlantic City	9,590,455	4,375,467	16,354,422	6,204,528	3,040,409	1,829,405	10,717,076	4,570,902
Camden	10,948,659	3,313,665	14,723,736	4,646,793	10,361,908	4,226,710	10,502,446	3,533,743
Elizabeth	4,482,250	1,458,673	33,072,841	10,301,447	5,928,079	2,434,835	16,877,590	5,324,769
Jersey City	20,973,001	6,676,924	74,874,810	21,693,452	20,922,591	7,922,562	30,030,416	8,740,882
New Brunswick	6,607,651	2,686,464	21,388,803	7,146,305	2,073,714	672,338	12,663,260	4,098,621
Newark	69,630,019	28,165,870	96,776,178	33,895,815	51,358,548	26,937,353	60,654,883	21,181,648
Paterson	26,247,709	8,760,560	42,679,036	12,675,663	8,369,448	3,501,666	32,325,787	10,108,718
Perth Amboy	8,522,742	3,610,025	10,662,200	3,157,813	3,211,995	1,575,379	4,835,664	1,784,174
Plainfield	4,076,278	1,241,221	12,133,448	2,919,279	2,066,844	964,792	7,181,325	1,802,381
Trenton	14,648,342	4,848,053	30,888,909	9,372,930	11,618,948	5,149,326	14,867,484	4,873,521
Union City	21,676,918	9,080,100	32,578,421	12,342,317	6,561,321	2,656,034	14,541,496	5,022,457
Vineland	8,174,603	4,251,885	24,263,491	8,660,885	4,547,530	2,227,036	7,358,186	2,437,361
13 ACO Regions	213,458,952	82,202,296	433,485,621	141,393,271	136,039,405	63,476,354	230,849,660	76,832,146
All NJ	431,605,047	186,190,828	2,030,926,551	714,692,023	235,601,356	117,054,449	882,827,047	331,822,701

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Table 27. (cont'd)- Annual inpatient high use costs, and component associated with BH

ACO Regions	Charity Care		Self-Pay		All Payer	
	Total	BH	Total	BH	Total	BH
Asbury Park	2,866,707	1,733,890	1,719,893	1,064,892	49,177,484	21,140,997
Atlantic City	7,661,063	4,607,971	2,013,986	1,281,034	49,604,165	23,222,968
Camden	5,358,235	2,921,816	3,520,675	1,982,957	55,452,715	20,869,418
Elizabeth	7,209,688	3,519,994	1,889,043	975,447	68,198,309	24,059,453
Jersey City	16,874,651	8,930,591	4,923,125	2,035,770	169,307,300	55,155,670
New Brunswick	2,616,377	1,235,367	2,100,417	1,074,504	47,746,583	17,043,440
Newark	29,697,010	16,520,754	17,920,426	10,388,688	327,312,823	136,792,004
Paterson	15,721,107	7,873,176	5,443,629	2,416,583	132,256,077	45,437,879
Perth Amboy	1,733,582	842,819	1,080,430	620,911	30,130,045	11,487,206
Plainfield	2,427,783	984,307	833,385	215,141	28,151,202	8,057,973
Trenton	10,964,275	5,817,613	4,336,935	2,265,126	87,320,305	32,639,128
Union City	4,818,115	1,855,178	3,111,882	1,091,470	85,921,227	32,764,597
Vineland	1,444,245	698,632	2,187,560	989,445	49,596,384	16,082,978
13 ACO Regions	109,392,838	57,542,108	51,081,386	26,401,968	1,180,174,620	444,753,710
All NJ	212,930,073	119,037,289	117,721,973	65,725,984	3,949,767,838	1,537,339,588

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Table 28. Annual ED high use costs, and component associated with BH

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private	
	Total	BH	Total	BH	Total	BH	Total	BH
Asbury Park	290,056	127,749	366,321	153,576	1,149,439	357,003	717,200	158,320
Atlantic City	801,617	333,505	816,693	287,503	750,088	252,646	3,455,732	833,157
Camden	979,166	241,328	907,345	202,799	2,889,609	496,503	4,609,203	487,203
Elizabeth	93,688	32,721	693,213	236,549	680,855	200,477	2,130,694	373,576
Jersey City	438,537	110,841	981,567	269,050	2,313,906	464,668	2,670,523	391,237
New Brunswick	179,588	57,014	375,174	125,045	260,871	78,261	1,664,884	266,629
Newark	2,294,453	897,346	2,193,566	628,314	7,579,581	2,874,720	10,203,189	2,218,125
Paterson	786,542	204,141	646,404	154,332	1,137,110	290,911	3,846,507	619,529
Perth Amboy	344,874	117,138	212,895	69,217	905,114	251,619	842,473	168,077
Plainfield	140,615	46,481	194,366	59,361	437,579	75,541	918,617	130,973
Trenton	1,097,035	271,106	1,248,153	238,733	4,040,236	714,497	3,927,954	524,605
Union City	282,973	59,696	341,550	74,553	662,736	123,351	1,233,121	172,318
Vineland	791,074	187,867	718,362	139,430	2,032,531	322,819	1,566,846	212,851
13 ACO Regions	8,520,217	2,686,935	9,695,609	2,638,462	24,839,655	6,503,018	37,786,943	6,556,600
All NJ	19,696,001	7,778,061	42,137,647	13,845,128	45,751,909	13,395,852	111,573,830	24,329,315

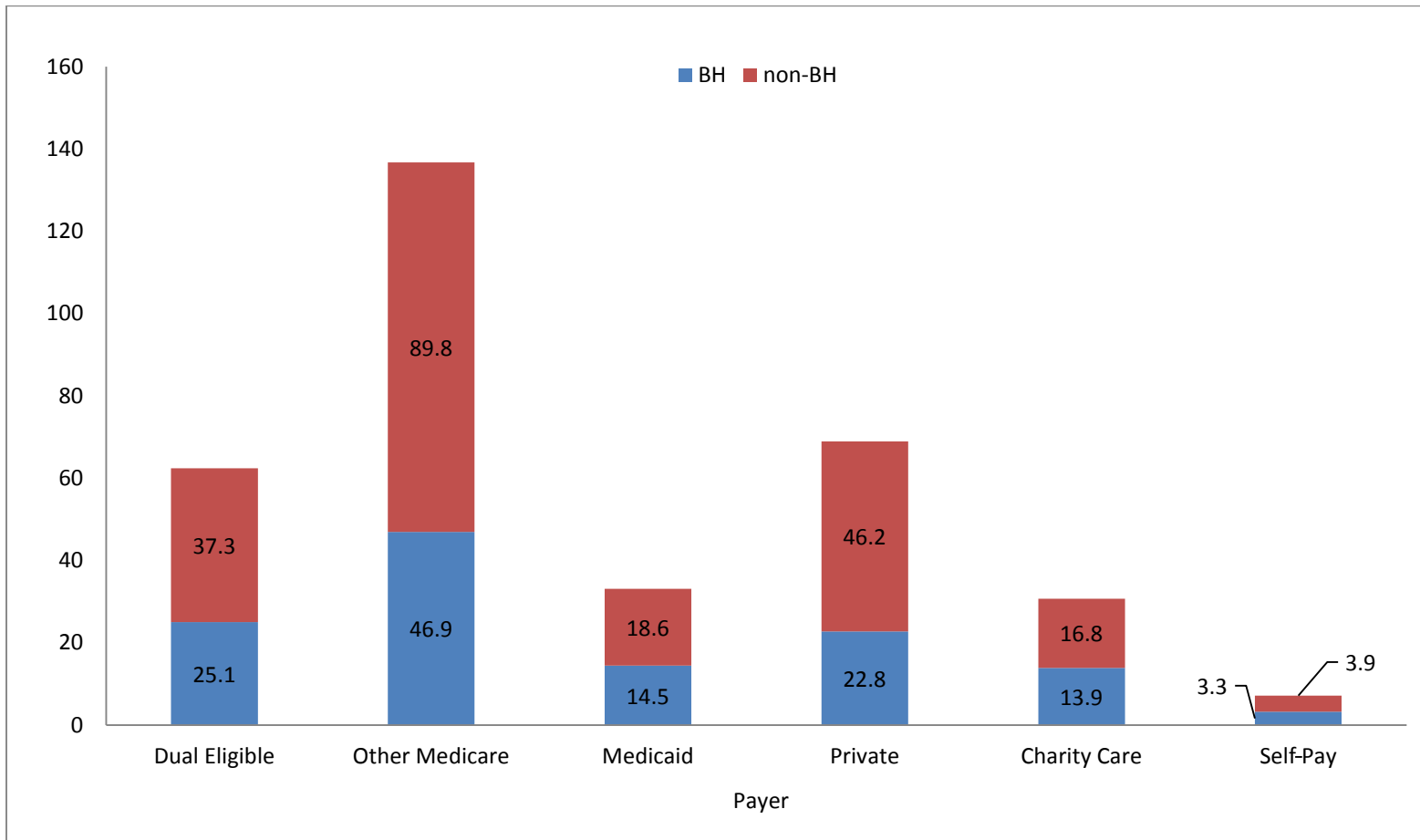
Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Table 28. (cont'd)- Annual ED high use costs, and component associated with BH

ACO Regions	Charity Care		Self-Pay		All Payer	
	Total	BH	Total	BH	Total	BH
Asbury Park	509,173	177,769	929,792	358,507	4,599,893	1,567,524
Atlantic City	2,725,679	1,106,231	1,911,011	631,204	11,065,740	3,883,206
Camden	1,720,426	400,864	3,167,610	602,779	15,529,784	2,660,075
Elizabeth	1,588,235	400,039	1,004,505	283,662	6,711,835	1,686,191
Jersey City	2,855,792	829,483	1,532,457	409,095	12,085,796	3,226,026
New Brunswick	696,860	117,411	990,967	223,970	4,354,812	963,218
Newark	6,542,518	2,425,535	9,386,156	3,827,066	40,059,908	13,887,287
Paterson	2,824,594	738,983	1,628,177	441,100	11,498,202	2,606,298
Perth Amboy	526,537	165,689	554,342	151,077	3,777,540	1,124,896
Plainfield	342,936	77,448	544,309	119,911	2,894,023	581,310
Trenton	3,053,507	792,946	3,192,071	630,116	17,751,191	3,557,279
Union City	883,216	157,417	802,803	186,360	4,853,873	1,004,439
Vineland	480,241	97,938	1,358,515	269,847	7,952,256	1,522,154
13 ACO Regions	24,749,713	7,487,751	27,002,717	8,134,694	143,134,852	38,269,902
All NJ	46,164,299	14,900,298	60,091,862	17,893,263	354,232,251	103,278,102

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

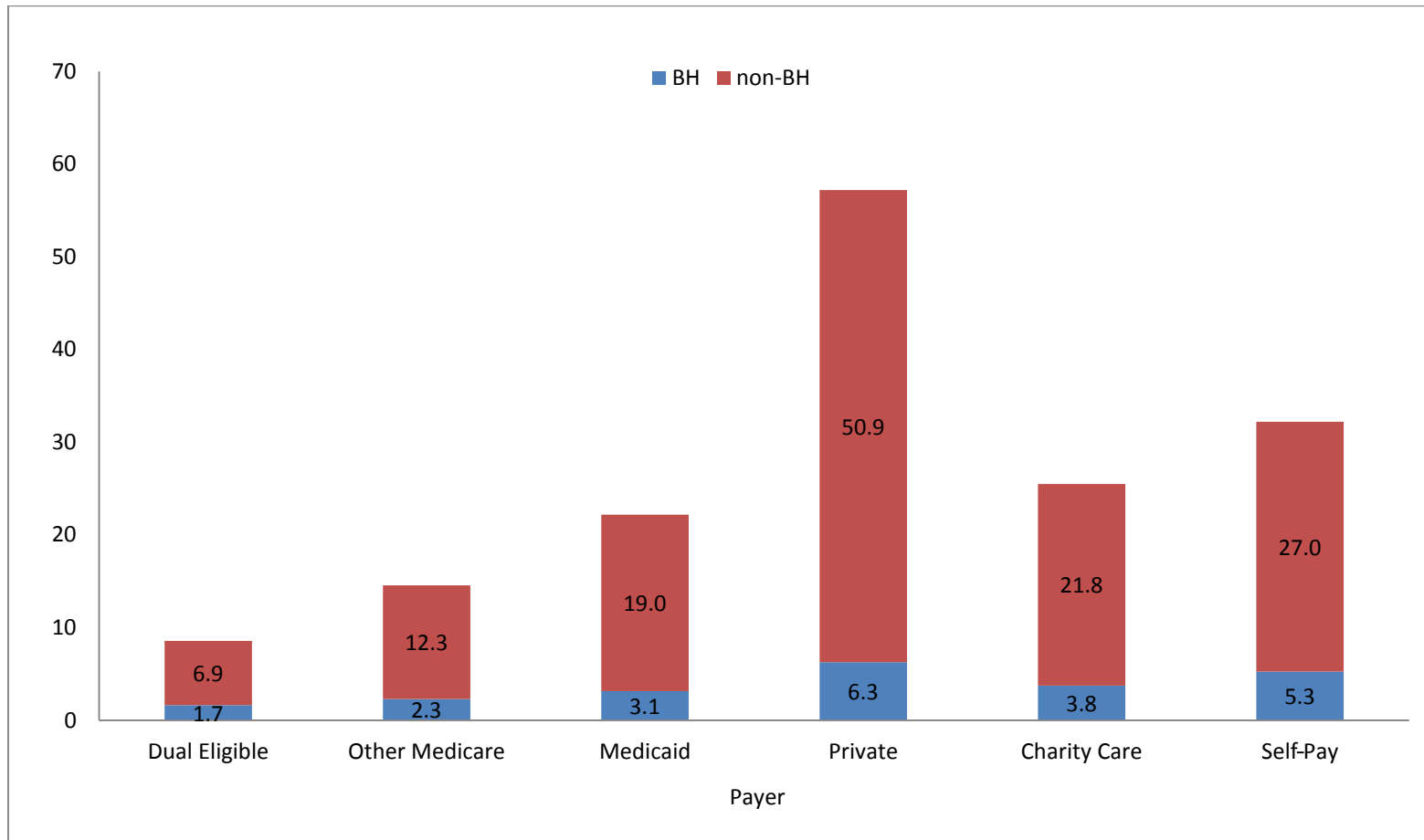
Figure 17. Annual avoidable inpatient costs associated with BH (millions of 2011 dollars)



Aggregated for 13 ACO regions.

Annualized total costs from avoidable inpatient hospitalizations classified into behavioral health and non-behavioral health components.

Figure 18. Annual avoidable ED costs associated with BH (millions of 2011 dollars)



Aggregated for 13 ACO regions.

Annualized total costs from avoidable ED visits classified into behavioral health and non-behavioral health components.

Table 29. Annualized total cost from avoidable inpatient hospitalizations and BH component

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private	
	Total	BH	Total	BH	Total	BH	Total	BH
Asbury Park	1,578,026	874,438	6,043,173	2,312,687	1,233,657	592,073	2,248,017	813,858
Atlantic City	2,782,908	1,444,971	5,322,075	1,969,022	830,113	387,222	3,061,618	1,372,133
Camden	3,542,685	1,193,776	4,664,965	1,443,874	3,037,148	1,292,784	2,498,324	1,046,658
Elizabeth	1,892,611	685,746	9,533,273	3,245,188	1,927,854	735,853	4,991,697	1,510,089
Jersey City	7,028,874	2,549,668	24,293,015	7,130,748	5,460,188	1,958,341	9,235,059	2,328,050
New Brunswick	1,606,504	634,299	5,774,727	1,986,279	334,935	108,646	3,512,444	1,121,569
Newark	18,734,540	7,879,418	27,190,082	10,425,984	11,267,213	5,453,825	18,182,797	6,566,678
Paterson	9,838,060	3,324,495	15,111,675	4,562,052	2,207,386	944,736	10,579,668	3,143,113
Perth Amboy	1,763,903	591,225	3,179,527	973,419	822,918	336,704	1,088,439	287,999
Plainfield	1,413,961	479,616	4,143,875	1,038,603	343,891	115,457	2,295,411	505,489
Trenton	3,270,498	1,199,618	9,772,871	2,918,279	2,658,701	1,177,651	4,676,103	1,791,109
Union City	7,484,417	3,545,750	10,521,389	4,164,318	1,745,913	676,076	4,224,684	1,478,461
Vineland	1,458,171	672,337	11,182,646	4,762,268	1,232,514	675,713	2,347,675	808,557
13 ACO Regions	62,395,158	25,075,355	136,733,292	46,932,720	33,102,431	14,455,080	68,941,936	22,773,762
All NJ	127,762,748	57,566,772	654,743,338	251,957,709	54,797,910	25,926,229	238,345,497	91,393,312

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Table 29. (cont'd)- Annualized costs from avoidable inpatient hospitalizations and BH component

ACO Regions	Charity Care		Self-Pay		All Payer	
	Total	BH	Total	BH	Total	BH
Asbury Park	706,920	348,321	317,292	205,198	11,926,633	5,124,673
Atlantic City	1,837,771	1,041,913	294,477	172,468	13,808,267	6,341,649
Camden	1,738,333	974,633	272,816	138,624	15,314,256	5,887,681
Elizabeth	2,074,508	854,910	417,005	237,011	20,303,749	7,266,659
Jersey City	4,498,447	1,858,327	729,826	186,636	49,405,928	15,330,755
New Brunswick	817,395	333,752	270,483	165,107	12,384,457	4,409,946
Newark	8,614,504	4,366,243	2,047,318	1,007,192	83,741,278	34,735,507
Paterson	4,188,879	1,733,438	905,298	413,797	42,373,134	14,031,053
Perth Amboy	714,792	181,628	113,732	56,329	7,445,408	2,455,439
Plainfield	821,292	222,409	218,632	117,498	8,723,429	2,404,175
Trenton	2,546,536	1,224,022	489,095	214,457	22,775,070	8,502,526
Union City	1,773,362	595,733	542,193	104,800	26,298,078	10,468,627
Vineland	362,653	201,815	555,798	238,660	16,944,629	5,645,665
13 ACO Regions	30,695,391	13,937,143	7,173,966	3,257,778	331,444,316	122,604,355
All NJ	59,016,744	28,403,264	17,593,342	8,514,377	1,138,358,226	456,578,403

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Table 30. Annualized costs from avoidable ED visits and BH component

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private	
	Total	BH	Total	BH	Total	BH	Total	BH
Asbury Park	291,054	114,651	606,373	156,659	935,431	228,321	1,420,105	238,599
Atlantic City	670,664	218,246	955,762	242,506	557,490	120,102	3,810,689	745,546
Camden	981,900	146,283	1,017,161	169,020	2,444,326	203,106	4,326,601	305,291
Elizabeth	253,148	52,886	968,567	186,237	877,640	107,758	3,490,971	375,420
Jersey City	683,301	116,025	1,611,077	207,816	2,180,792	207,410	5,439,718	349,579
New Brunswick	208,601	40,058	549,365	108,491	190,784	29,095	2,731,199	225,952
Newark	2,305,417	516,695	2,947,893	523,922	6,223,186	1,412,600	15,703,592	2,538,121
Paterson	908,351	109,730	1,115,647	124,691	1,255,687	145,955	6,296,708	509,125
Perth Amboy	420,419	96,892	421,623	83,185	1,065,027	166,789	1,397,561	151,445
Plainfield	138,474	29,070	334,769	51,124	383,211	37,665	1,503,507	126,851
Trenton	901,823	144,588	1,541,378	174,733	3,424,359	320,466	4,839,714	370,605
Union City	527,644	58,634	750,006	74,691	846,825	48,467	3,299,477	165,950
Vineland	276,508	18,313	1,764,543	201,282	1,797,829	120,733	2,944,700	182,989
13 ACO Regions	8,567,303	1,662,072	14,584,163	2,304,358	22,182,587	3,148,467	57,204,544	6,285,473
All NJ	19,360,975	5,355,023	79,026,531	16,857,574	41,472,831	7,000,182	220,091,147	28,060,943

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

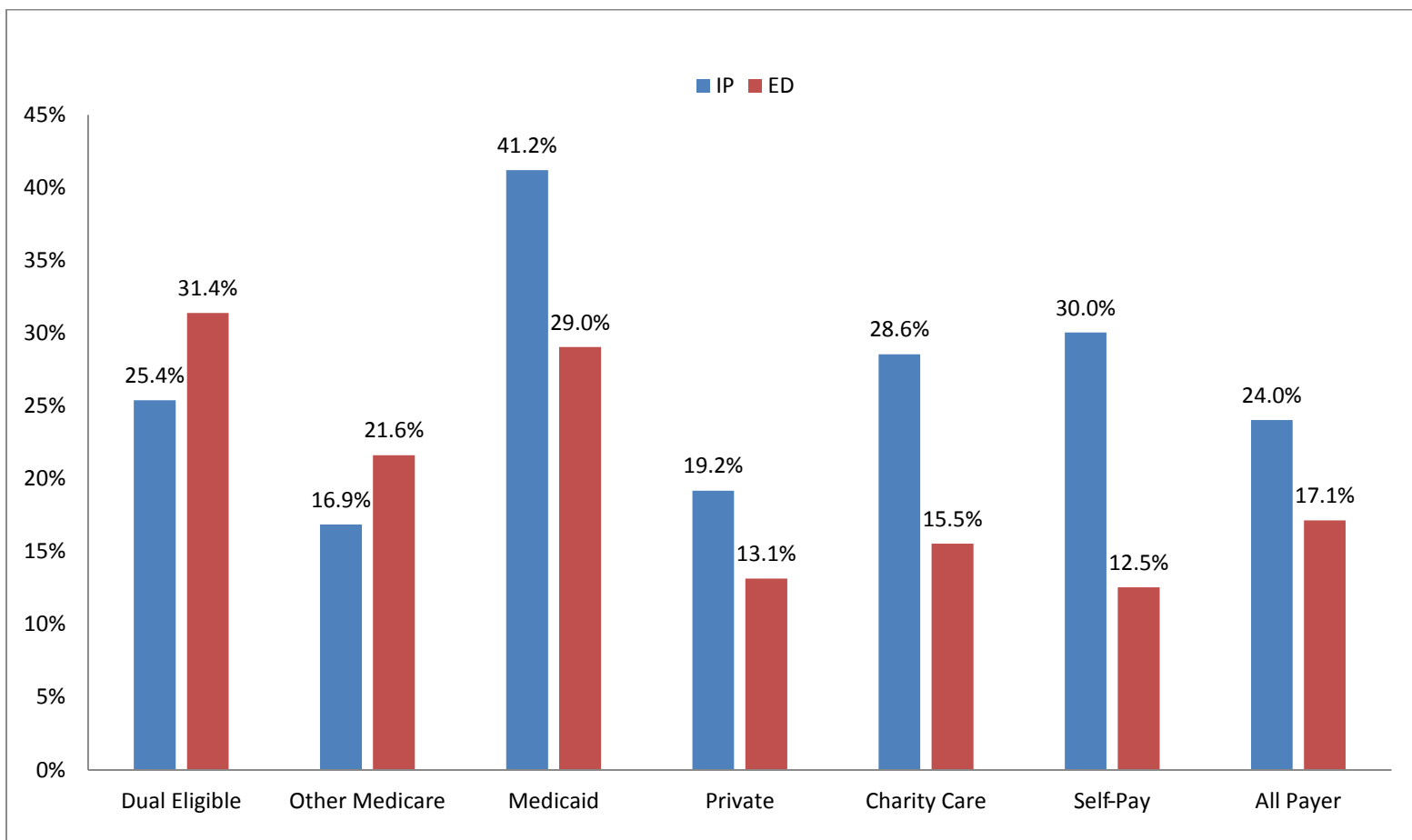
Table 30. (cont'd)- Annualized costs from avoidable ED visits and BH component

ACO Regions	Charity Care		Self-Pay		All Payer	
	Total	BH	Total	BH	Total	BH
Asbury Park	504,704	105,561	875,171	214,809	5,363,998	1,253,364
Atlantic City	2,146,516	590,606	1,896,936	436,127	10,725,405	2,755,426
Camden	1,320,652	168,365	2,981,275	206,204	14,142,537	1,316,549
Elizabeth	1,909,314	166,051	1,470,243	185,841	9,496,365	1,152,303
Jersey City	2,866,438	300,043	2,247,063	210,082	16,738,252	2,194,264
New Brunswick	988,599	50,698	1,392,076	120,431	6,230,467	622,715
Newark	7,081,316	1,559,863	10,569,448	2,830,788	47,068,951	10,292,254
Paterson	3,248,639	331,556	2,463,188	273,510	16,059,220	1,591,072
Perth Amboy	685,598	102,189	976,778	154,043	5,486,966	969,523
Plainfield	424,971	30,544	846,784	77,379	4,000,616	399,496
Trenton	2,364,141	260,738	3,350,451	332,751	17,501,761	1,849,776
Union City	1,522,300	60,513	1,678,978	107,093	9,737,442	640,445
Vineland	447,396	26,655	1,485,787	111,432	9,970,102	963,583
13 ACO Regions	25,510,584	3,753,382	32,234,178	5,260,490	172,522,084	26,000,769
All NJ	46,188,775	7,418,670	69,949,169	11,545,981	512,975,229	85,478,988

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Section 3: Severe Mental Illness (SMI) in Patients With Behavioral Health Problems– Prevalence And Costs

Figure 19. BH costs associated with severe mental illness (millions of 2011 dollars)



Aggregated for 13 ACO regions.

Percentages denote share BH costs in IP and ED settings that were associated with SMI.

Table 31. Percent of behavioral health hospital patients (inpatient) with SMI, by payer

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
Asbury Park	39.6%	18.8%	40.1%	19.3%	30.0%	29.4%	24.9%
Atlantic City	31.0%	21.0%	51.8%	22.2%	34.5%	33.8%	29.2%
Camden	23.9%	13.9%	37.1%	22.1%	33.6%	38.6%	28.0%
Elizabeth	21.9%	19.2%	38.9%	17.4%	32.9%	28.6%	22.3%
Jersey City	21.4%	16.7%	35.7%	16.7%	35.7%	28.9%	23.8%
New Brunswick	18.5%	18.7%	49.5%	20.5%	31.3%	33.8%	23.7%
Newark	27.9%	17.0%	47.8%	20.7%	43.4%	43.3%	31.5%
Paterson	26.1%	17.8%	49.7%	23.6%	39.1%	39.1%	28.4%
Perth Amboy	29.3%	20.9%	40.4%	20.6%	33.8%	37.9%	27.8%
Plainfield	36.9%	22.1%	48.0%	21.7%	39.3%	33.2%	27.4%
Trenton	32.3%	18.2%	43.2%	19.0%	35.2%	32.5%	26.1%
Union City	22.4%	19.8%	42.3%	17.9%	28.0%	23.6%	22.7%
Vineland	28.7%	15.8%	37.0%	18.2%	29.7%	32.0%	22.2%
13 ACO Regions	27.1%	18.0%	43.2%	20.0%	37.3%	36.4%	27.0%
All NJ	30.9%	16.5%	44.5%	21.1%	37.4%	36.9%	23.7%

Table 32. Percent of behavioral health ED patients with SMI, by payer

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
Asbury Park	34.6%	18.3%	21.0%	12.5%	20.5%	15.0%	17.8%
Atlantic City	31.8%	24.6%	28.8%	11.3%	19.9%	10.2%	15.7%
Camden	25.5%	21.3%	26.1%	15.1%	23.3%	18.3%	19.9%
Elizabeth	16.2%	21.4%	31.3%	11.3%	20.7%	9.5%	14.5%
Jersey City	23.7%	17.3%	24.1%	10.3%	17.5%	11.8%	13.4%
New Brunswick	29.1%	21.8%	34.9%	14.7%	20.5%	10.5%	15.4%
Newark	30.0%	19.2%	26.3%	10.1%	16.7%	12.3%	14.7%
Paterson	25.8%	19.2%	23.0%	10.4%	14.0%	8.5%	12.5%
Perth Amboy	23.0%	18.2%	17.3%	8.7%	12.6%	6.8%	12.0%
Plainfield	41.8%	27.9%	32.0%	16.0%	22.4%	11.2%	17.8%
Trenton	31.6%	21.6%	27.6%	12.5%	17.4%	10.8%	16.3%
Union City	20.7%	19.3%	25.3%	13.8%	15.9%	6.8%	12.4%
Vineland	32.0%	19.5%	25.8%	15.3%	21.5%	18.6%	18.2%
13 ACO Regions	28.5%	20.2%	25.7%	11.5%	17.5%	11.5%	14.9%
All NJ	33.1%	17.2%	28.0%	14.5%	19.9%	14.2%	17.0%

Table 33. Total annualized inpatient costs associated with SMI and as share of total BH costs

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private	
	SMI	% of BH	SMI	% of BH	SMI	% of BH	SMI	% of BH
Asbury Park	2,061,347	37.0%	3,188,196	19.7%	2,183,258	43.6%	1,791,938	20.2%
Atlantic City	1,835,136	24.3%	2,027,753	17.2%	1,273,122	42.2%	2,368,918	21.3%
Camden	1,628,886	27.3%	1,173,755	14.6%	2,724,816	35.9%	1,663,051	18.9%
Elizabeth	618,607	25.1%	4,126,526	19.2%	1,900,852	38.0%	2,447,179	16.0%
Jersey City	1,923,434	18.7%	5,964,535	15.9%	4,016,866	31.6%	3,382,943	15.3%
New Brunswick	1,076,287	25.7%	2,548,041	19.2%	623,498	48.6%	2,210,286	21.8%
Newark	10,997,773	26.6%	8,495,462	14.9%	18,769,473	45.4%	9,938,850	20.2%
Paterson	3,468,792	25.2%	4,319,771	17.4%	2,823,474	48.6%	5,259,734	22.4%
Perth Amboy	1,432,835	28.6%	1,048,483	18.5%	1,016,683	39.2%	855,065	23.5%
Plainfield	908,781	37.7%	1,544,433	24.3%	634,735	40.1%	1,118,778	21.8%
Trenton	2,003,161	27.5%	3,298,701	18.3%	3,377,657	42.0%	2,383,261	18.7%
Union City	2,658,447	18.3%	3,631,357	16.0%	1,681,123	37.8%	1,901,068	15.7%
Vineland	1,664,390	24.8%	2,700,677	14.4%	1,348,333	30.7%	1,390,097	15.8%
13 ACO Regions	32,277,877	25.4%	44,067,690	16.9%	42,373,890	41.2%	36,711,168	19.2%
All NJ	90,751,098	29.6%	235,643,558	15.8%	84,053,629	42.0%	188,008,939	19.4%

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Table 33. (cont'd)- Total annualized inpatient costs associated with SMI and as share of total BH costs

ACO Regions	Charity Care		Self-Pay		All Payer	
	SMI	% of BH	SMI	% of BH	SMI	% of BH
Asbury Park	1,047,059	30.0%	819,944	28.4%	10,838,492	26.1%
Atlantic City	2,546,091	26.3%	904,663	24.1%	11,187,362	23.7%
Camden	2,279,021	30.6%	1,731,054	35.8%	11,307,243	26.1%
Elizabeth	2,166,653	24.0%	615,811	21.8%	11,502,047	20.5%
Jersey City	4,350,956	23.1%	1,062,950	22.3%	20,743,213	19.8%
New Brunswick	1,047,889	29.6%	942,699	35.4%	8,478,285	23.7%
Newark	12,294,714	31.6%	8,232,914	34.3%	69,187,549	27.3%
Paterson	5,821,032	34.1%	1,964,604	33.7%	23,931,365	25.8%
Perth Amboy	584,279	29.9%	382,230	28.6%	5,270,653	25.9%
Plainfield	879,262	36.4%	351,310	30.4%	5,338,190	27.7%
Trenton	2,972,072	25.1%	1,344,515	25.9%	15,161,558	23.4%
Union City	1,109,936	21.1%	581,102	20.9%	11,743,020	18.5%
Vineland	353,867	19.6%	636,905	20.6%	6,810,114	18.3%
13 ACO Regions	37,452,832	28.6%	19,570,700	30.0%	211,499,091	24.0%
All NJ	81,450,800	29.6%	51,191,593	30.9%	742,865,502	21.5%

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Table 34. Total annualized ED costs associated with SMI and as share of total BH costs

ACO Regions	Dual Eligible		Other Medicare		Medicaid		Private	
	SMI	% of BH	SMI	% of BH	SMI	% of BH	SMI	% of BH
Asbury Park	83,961	36.1%	94,900	22.6%	126,821	27.0%	77,505	13.8%
Atlantic City	151,852	33.9%	123,760	22.5%	96,183	29.2%	201,593	14.6%
Camden	96,261	26.1%	76,303	18.5%	145,519	22.3%	117,857	15.7%
Elizabeth	17,696	21.8%	132,514	21.8%	84,166	29.1%	123,904	12.2%
Jersey City	54,913	22.3%	115,116	17.4%	188,126	28.4%	117,016	11.3%
New Brunswick	33,521	28.1%	72,198	23.5%	43,360	39.7%	100,366	15.9%
Newark	512,642	35.6%	304,912	22.7%	1,177,533	30.5%	561,057	11.4%
Paterson	122,279	33.7%	101,352	23.7%	138,446	31.2%	205,140	13.7%
Perth Amboy	59,648	26.6%	43,204	20.3%	93,312	25.0%	42,460	9.9%
Plainfield	33,234	40.6%	52,678	31.7%	34,248	30.5%	55,461	16.7%
Trenton	119,416	30.1%	112,654	22.7%	288,861	31.5%	149,806	14.9%
Union City	33,239	18.1%	57,485	22.3%	62,725	28.2%	92,637	16.1%
Vineland	75,890	29.5%	82,662	17.6%	107,803	23.3%	99,395	15.8%
13 ACO Regions	1,394,552	31.4%	1,369,740	21.6%	2,587,103	29.0%	1,944,197	13.1%
All NJ	4,817,149	35.3%	8,201,030	18.3%	5,715,702	30.1%	11,654,947	15.7%

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records. Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Table 34. (cont'd) -Total annualized ED costs associated with SMI and as share of total BH costs

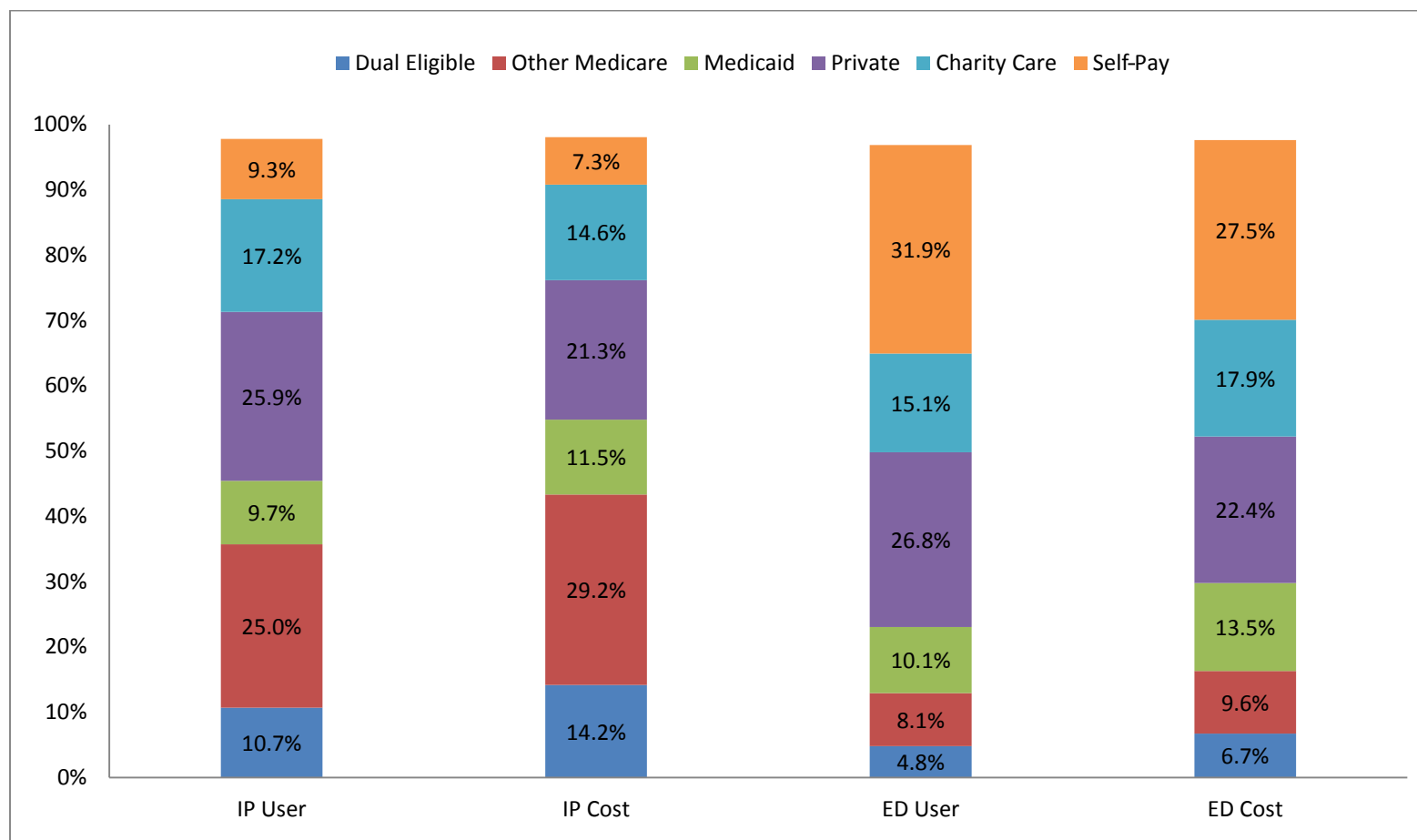
ACO Regions	Charity Care		Self-Pay		All Payer	
	SMI	% of BH	SMI	% of BH	SMI	% of BH
Asbury Park	54,433	19.0%	100,666	16.2%	654,422	21.4%
Atlantic City	278,644	18.5%	148,018	11.6%	1,160,790	18.4%
Camden	118,203	20.8%	188,495	17.1%	781,565	18.5%
Elizabeth	114,077	16.8%	61,418	8.9%	566,545	15.3%
Jersey City	185,044	14.2%	142,775	15.6%	1,015,128	15.2%
New Brunswick	31,992	16.8%	80,623	12.6%	400,731	18.2%
Newark	548,952	13.6%	1,001,107	12.2%	4,293,399	16.8%
Paterson	190,439	15.3%	135,559	11.2%	963,604	17.4%
Perth Amboy	31,101	9.8%	44,039	9.1%	403,326	15.8%
Plainfield	28,698	22.3%	50,671	13.1%	283,906	20.6%
Trenton	174,517	15.9%	174,324	13.4%	1,055,930	17.9%
Union City	59,979	19.6%	69,010	9.5%	436,412	15.4%
Vineland	22,528	14.7%	82,906	14.0%	531,101	16.7%
13 ACO Regions	1,838,606	15.5%	2,279,613	12.5%	12,546,860	17.1%
All NJ	4,142,197	17.1%	5,792,207	14.4%	44,909,822	18.4%

Payer specific costs are based on 2008-2010 discharge records; all payer results are based on 2008-2011 discharge records.

Figures are annualized and adjusted to 2011 dollars using CPI-Medical Care.

Section 4: Payer Distribution of Patients With Behavioral Health Problems and Associated Costs

Figure 20. Payer distribution of inpatient and ED users with behavioral health problems and associated costs



Aggregated for 13 ACO regions.

Table 35. Payer distribution of hospital inpatient patients with BH problems

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay
Asbury Park	9.1%	35.1%	9.5%	27.2%	9.2%	8.0%
Atlantic City	12.6%	22.0%	5.7%	27.3%	20.3%	10.7%
Camden	11.0%	14.9%	15.8%	23.6%	18.6%	13.9%
Elizabeth	3.3%	32.7%	7.1%	30.6%	17.3%	6.4%
Jersey City	7.2%	27.7%	10.4%	25.7%	21.3%	6.2%
New Brunswick	8.1%	30.6%	3.6%	33.8%	11.9%	9.8%
Newark	12.5%	18.9%	12.6%	23.1%	19.1%	11.8%
Paterson	11.4%	22.2%	5.9%	29.4%	21.3%	7.8%
Perth Amboy	17.6%	23.9%	12.3%	20.1%	14.5%	8.5%
Plainfield	8.9%	28.4%	6.1%	30.2%	14.1%	8.4%
Trenton	8.6%	23.9%	11.2%	24.6%	19.6%	9.6%
Union City	18.3%	30.5%	6.4%	24.4%	11.1%	6.0%
Vineland	10.1%	37.2%	11.0%	24.3%	4.9%	9.8%
13 ACO Regions	10.7%	25.0%	9.7%	25.9%	17.2%	9.3%
All NJ	6.4%	38.1%	4.8%	33.3%	8.8%	5.9%

Aggregated for 13 ACO regions.

Table 36. Payer distribution of ED patients with BH problems

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay
Asbury Park	6.6%	13.0%	14.8%	25.9%	9.4%	26.5%
Atlantic City	5.3%	7.9%	4.6%	27.0%	21.5%	32.1%
Camden	6.8%	8.0%	14.1%	23.5%	12.2%	33.1%
Elizabeth	1.6%	13.1%	7.1%	32.7%	17.9%	22.9%
Jersey City	3.6%	9.5%	11.3%	26.5%	22.2%	24.5%
New Brunswick	4.0%	10.1%	3.7%	32.4%	7.9%	39.7%
Newark	4.6%	5.1%	11.1%	25.8%	14.0%	36.9%
Paterson	5.0%	6.4%	6.2%	31.1%	21.2%	27.3%
Perth Amboy	7.2%	7.6%	14.8%	22.0%	12.0%	31.4%
Plainfield	4.8%	11.2%	7.4%	27.6%	8.5%	35.5%
Trenton	5.2%	8.1%	13.1%	23.0%	16.2%	31.6%
Union City	5.7%	8.1%	7.5%	23.6%	10.8%	37.9%
Vineland	7.2%	16.2%	16.5%	27.0%	4.8%	24.0%
13 ACO Regions	4.8%	8.1%	10.1%	26.8%	15.1%	31.9%
All NJ	4.2%	15.7%	6.9%	38.0%	9.4%	21.6%

Aggregated for 13 ACO regions.

Table 37. Payer distribution of costs associated with BH in hospital inpatient stays

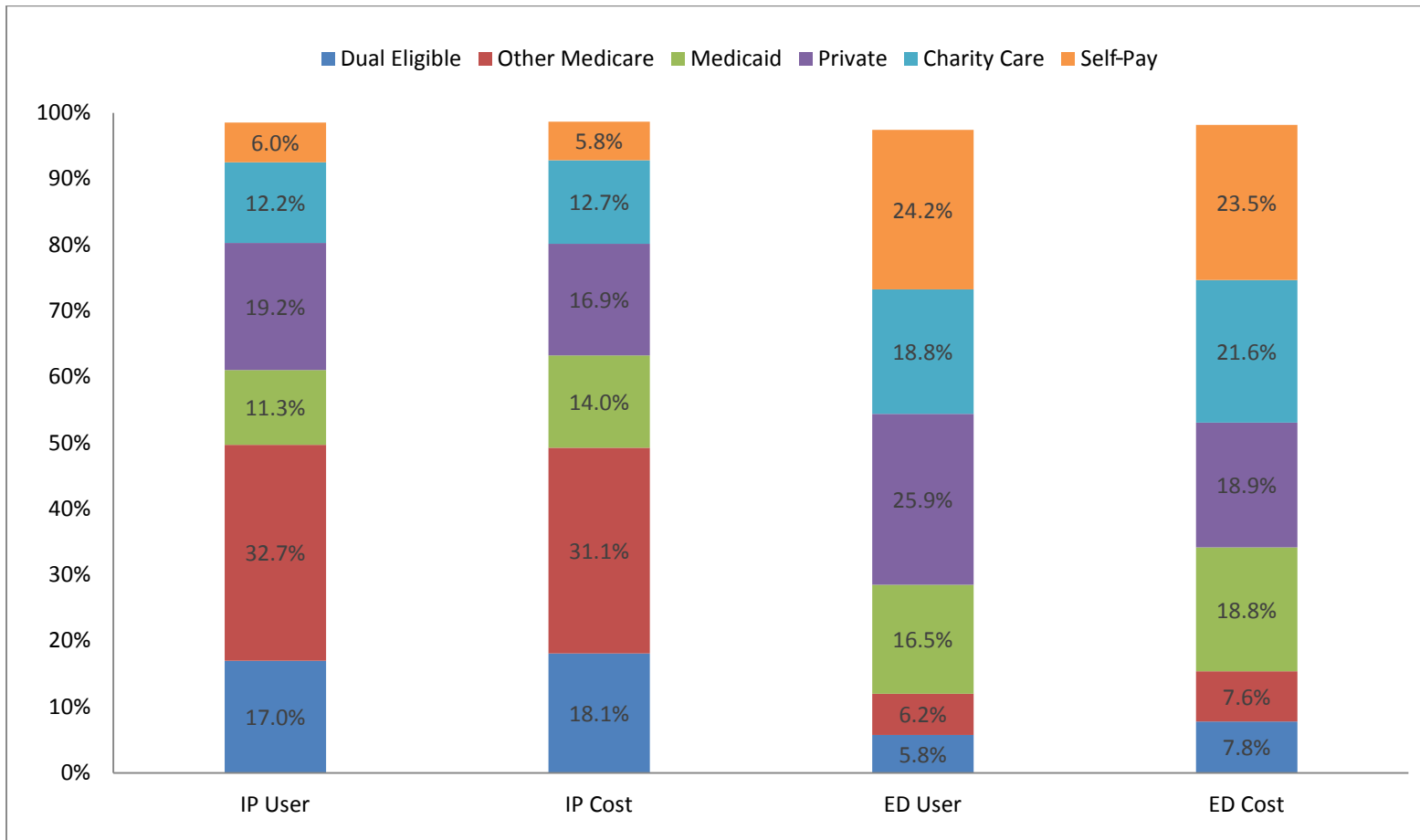
ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay
Asbury Park	13.0%	37.9%	11.7%	20.7%	8.2%	6.8%
Atlantic City	15.9%	24.8%	6.3%	23.4%	20.4%	7.9%
Camden	13.7%	18.5%	17.5%	20.2%	17.1%	11.1%
Elizabeth	4.3%	37.4%	8.7%	26.6%	15.7%	4.9%
Jersey City	9.5%	34.8%	11.8%	20.5%	17.5%	4.4%
New Brunswick	11.7%	37.2%	3.6%	28.4%	9.9%	7.5%
Newark	16.1%	22.2%	16.1%	19.2%	15.1%	9.4%
Paterson	14.9%	26.9%	6.3%	25.4%	18.5%	6.3%
Perth Amboy	24.2%	27.4%	12.5%	17.5%	9.4%	6.4%
Plainfield	12.3%	32.4%	8.0%	26.1%	12.3%	5.9%
Trenton	11.3%	28.0%	12.5%	19.8%	18.4%	8.0%
Union City	22.8%	35.7%	7.0%	19.0%	8.3%	4.4%
Vineland	15.0%	41.7%	9.8%	19.6%	4.0%	6.9%
13 ACO Regions	14.2%	29.2%	11.5%	21.3%	14.6%	7.3%
All NJ	8.8%	42.7%	5.7%	27.7%	7.9%	4.7%

Aggregated for 13 ACO regions.

Table 38. Payer distribution of costs associated with BH in ED visits

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay
Asbury Park	8.8%	15.8%	17.7%	21.1%	10.8%	23.4%
Atlantic City	8.1%	9.9%	5.9%	24.9%	27.1%	23.0%
Camden	9.4%	10.5%	16.6%	19.1%	14.5%	28.1%
Elizabeth	2.3%	17.4%	8.3%	29.2%	19.5%	19.9%
Jersey City	5.0%	13.5%	13.5%	21.0%	26.6%	18.7%
New Brunswick	5.9%	15.1%	5.4%	31.1%	9.4%	31.4%
Newark	5.9%	5.5%	15.9%	20.3%	16.6%	33.8%
Paterson	6.8%	8.1%	8.4%	28.3%	23.4%	22.8%
Perth Amboy	10.6%	10.1%	17.7%	20.4%	15.1%	23.1%
Plainfield	6.5%	13.2%	8.9%	26.5%	10.2%	30.7%
Trenton	7.4%	9.3%	17.2%	18.9%	20.6%	24.4%
Union City	7.5%	10.5%	9.1%	23.5%	12.5%	29.5%
Vineland	9.7%	17.7%	17.4%	23.7%	5.8%	22.2%
13 ACO Regions	6.7%	9.6%	13.5%	22.4%	17.9%	27.5%
All NJ	6.1%	20.0%	8.5%	33.2%	10.8%	17.9%

Figure 21. Payer distribution of IP and ED high use costs associated with behavioral health



Aggregated for 13 ACO regions.

Table 39. Payer Distribution of inpatient high users with behavioral health

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay
Asbury Park	14.3%	44.3%	10.5%	18.0%	6.7%	5.2%
Atlantic City	18.2%	28.8%	7.5%	21.6%	16.6%	6.6%
Camden	17.0%	23.0%	18.3%	18.0%	12.7%	9.6%
Elizabeth	5.1%	45.1%	7.8%	23.2%	13.6%	3.8%
Jersey City	10.5%	37.9%	12.0%	18.3%	16.1%	4.3%
New Brunswick	13.8%	40.1%	3.9%	26.6%	7.5%	6.6%
Newark	20.1%	26.1%	15.2%	17.4%	11.7%	7.8%
Paterson	18.0%	27.5%	6.7%	25.4%	16.2%	5.2%
Perth Amboy	26.9%	31.2%	12.4%	14.7%	8.1%	5.0%
Plainfield	13.9%	37.1%	7.7%	22.9%	10.2%	4.1%
Trenton	14.0%	30.5%	13.3%	17.5%	16.2%	6.9%
Union City	26.6%	37.6%	7.1%	17.1%	6.0%	2.9%
Vineland	18.4%	46.2%	10.1%	14.3%	3.6%	5.5%
13 ACO Regions	17.0%	32.7%	11.3%	19.2%	12.2%	6.0%
All NJ	10.2%	48.7%	5.9%	22.3%	6.9%	4.2%

Based on 2008-2010 discharge records.

Table 40. Payer distribution of ED high users with behavioral health

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay
Asbury Park	7.1%	8.0%	26.8%	15.1%	12.4%	28.3%
Atlantic City	6.1%	6.6%	6.5%	30.7%	26.6%	22.5%
Camden	6.3%	6.1%	17.8%	27.3%	13.4%	26.6%
Elizabeth	1.3%	10.1%	11.7%	30.5%	24.4%	18.6%
Jersey City	3.8%	8.1%	19.1%	22.6%	27.6%	16.9%
New Brunswick	4.9%	8.4%	6.9%	36.7%	12.8%	28.8%
Newark	5.3%	4.3%	17.2%	25.5%	16.4%	28.6%
Paterson	6.0%	4.7%	9.3%	32.8%	27.3%	18.1%
Perth Amboy	8.1%	5.1%	26.0%	21.0%	13.4%	21.9%
Plainfield	6.0%	9.6%	14.7%	29.5%	13.9%	22.8%
Trenton	6.4%	6.7%	20.1%	21.6%	19.0%	23.9%
Union City	5.8%	6.8%	15.6%	24.4%	18.0%	21.7%
Vineland	13.1%	8.8%	28.0%	17.6%	6.3%	23.3%
13 ACO Regions	5.8%	6.2%	16.5%	25.9%	18.8%	24.2%
All NJ	5.7%	11.0%	13.2%	30.9%	14.3%	21.4%

Based on 2008-2010 discharge records.

Table 41. Payer distribution of IP high use costs associated with BH

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay
Asbury Park	17.2%	38.5%	15.5%	15.4%	8.0%	4.9%
Atlantic City	19.0%	27.0%	8.0%	19.9%	20.0%	5.6%
Camden	15.8%	22.2%	20.2%	16.9%	14.0%	9.5%
Elizabeth	6.0%	42.3%	10.0%	21.9%	14.5%	4.0%
Jersey City	11.8%	38.4%	14.0%	15.5%	15.8%	3.6%
New Brunswick	15.7%	41.8%	3.9%	23.9%	7.2%	6.3%
Newark	20.2%	24.3%	19.3%	15.2%	11.9%	7.5%
Paterson	19.2%	27.8%	7.7%	22.1%	17.2%	5.3%
Perth Amboy	30.7%	26.9%	13.4%	15.2%	7.2%	5.3%
Plainfield	14.9%	35.2%	11.6%	21.7%	11.9%	2.6%
Trenton	14.8%	28.6%	15.7%	14.9%	17.7%	6.9%
Union City	27.7%	37.7%	8.1%	15.3%	5.7%	3.3%
Vineland	21.5%	43.8%	11.3%	12.3%	3.5%	5.0%
13 ACO Regions	18.1%	31.1%	14.0%	16.9%	12.7%	5.8%
All NJ	11.9%	45.8%	7.5%	21.3%	7.6%	4.2%

Based on 2008-2010 discharge records.

Table 42. Payer distribution of ED high use costs associated with BH

ACO Regions	Dual Eligible	Other Medicare	Medicaid	Private	Charity Care	Self-Pay
Asbury Park	9.5%	11.4%	26.5%	11.7%	13.2%	26.6%
Atlantic City	9.6%	8.3%	7.3%	24.0%	31.9%	18.2%
Camden	9.7%	8.2%	20.0%	19.6%	16.2%	24.3%
Elizabeth	2.1%	15.1%	12.8%	23.8%	25.5%	18.1%
Jersey City	4.4%	10.8%	18.6%	15.6%	33.2%	16.4%
New Brunswick	6.5%	14.2%	8.9%	30.3%	13.4%	25.5%
Newark	6.8%	4.8%	21.9%	16.9%	18.5%	29.2%
Paterson	8.2%	6.2%	11.7%	24.9%	29.8%	17.8%
Perth Amboy	12.5%	7.4%	26.8%	17.9%	17.6%	16.1%
Plainfield	8.9%	11.3%	14.4%	25.0%	14.8%	22.9%
Trenton	8.4%	7.4%	22.2%	16.3%	24.6%	19.5%
Union City	7.0%	8.8%	14.5%	20.3%	18.5%	21.9%
Vineland	14.9%	11.1%	25.7%	16.9%	7.8%	21.5%
13 ACO Regions	7.8%	7.6%	18.8%	18.9%	21.6%	23.5%
All NJ	8.2%	14.6%	14.1%	25.7%	15.7%	18.9%

Based on 2008-2010 discharge records.

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Appendix A-1: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Asbury Park

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	40.8%	54.0%	15.2%	31.1%	12.0%	11.9%	39.6%
	SA only (2)	6.4%	4.8%	16.0%	12.7%	23.2%	16.9%	9.3%
	MH+SA (3)	36.0%	15.8%	51.9%	30.1%	50.7%	61.9%	29.0%
	BH (1-3)	83.3%	74.6%	83.1%	73.9%	85.9%	90.7%	77.9%
All IP users	MH only (1)	39.5%	37.4%	12.2%	16.0%	10.4%	10.3%	22.6%
	SA only (2)	8.4%	6.2%	11.6%	11.0%	24.7%	24.4%	11.4%
	MH+SA (3)	19.2%	6.3%	13.6%	6.9%	16.8%	21.0%	9.8%
	BH (1-3)	67.1%	50.0%	37.4%	34.0%	51.8%	55.6%	43.7%
IP avoidable hospitalizations	MH only (1)	32.2%	31.7%	16.9%	19.9%	12.3%	8.8%	25.4%
	SA only (2)	18.8%	7.4%	25.0%	14.5%	31.5%	28.6%	14.8%
	MH+SA (3)	10.4%	4.4%	19.0%	4.4%	9.1%	21.1%	7.5%
	BH (1-3)	61.4%	43.5%	60.9%	38.8%	53.0%	58.5%	47.8%
All IP hospitalizations	MH only (1)	34.7%	31.2%	14.3%	15.7%	9.9%	10.7%	22.1%
	SA only (2)	9.7%	5.3%	16.5%	11.5%	28.8%	27.1%	11.8%
	MH+SA (3)	11.3%	3.4%	14.5%	5.1%	15.3%	18.0%	7.6%
	BH (1-3)	55.8%	39.8%	45.3%	32.3%	54.1%	55.8%	41.4%
ED high users	MH only (1)	28.0%	39.5%	10.5%	14.4%	11.2%	8.3%	14.0%
	SA only (2)	11.0%	9.6%	30.2%	22.2%	27.9%	38.6%	27.5%
	MH+SA (3)	37.4%	18.9%	24.4%	19.0%	27.1%	29.0%	25.0%
	BH (1-3)	76.4%	68.0%	65.0%	55.6%	66.2%	75.8%	66.4%
All ED users	MH only (1)	30.2%	20.0%	8.4%	8.1%	7.1%	4.9%	9.5%
	SA only (2)	9.7%	4.1%	19.0%	9.2%	16.7%	24.0%	12.9%
	MH+SA (3)	12.2%	3.0%	10.3%	3.3%	8.6%	8.1%	5.3%
	BH (1-3)	52.1%	27.1%	37.6%	20.7%	32.5%	37.0%	27.7%
ED avoidable visits	MH only (1)	23.1%	15.6%	7.6%	5.8%	5.1%	3.8%	7.7%
	SA only (2)	8.5%	4.9%	11.2%	7.5%	11.4%	14.9%	10.0%
	MH+SA (3)	3.8%	1.9%	2.9%	1.0%	1.8%	1.8%	2.0%
	BH (1-3)	35.5%	22.4%	21.8%	14.3%	18.3%	20.5%	19.7%
All ED visits	MH only (1)	26.4%	18.4%	9.3%	7.1%	7.0%	5.8%	9.2%
	SA only (2)	7.7%	4.4%	10.3%	7.0%	13.4%	18.8%	10.6%
	MH+SA (3)	5.0%	2.3%	4.3%	2.1%	4.3%	4.8%	3.4%
	BH (1-3)	39.1%	25.2%	24.0%	16.2%	24.8%	29.4%	23.2%

Appendix A-2: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Atlantic City

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	43.8%	47.2%	20.8%	24.1%	12.5%	13.1%	31.8%
	SA only (2)	7.9%	6.6%	15.7%	14.8%	18.5%	17.6%	11.9%
	MH+SA (3)	31.8%	24.5%	51.6%	36.4%	58.1%	57.5%	37.7%
	BH (1-3)	83.5%	78.3%	88.1%	75.4%	89.2%	88.2%	81.4%
All IP users	MH only (1)	43.4%	34.0%	11.4%	14.1%	9.4%	8.6%	18.4%
	SA only (2)	10.6%	10.6%	9.5%	13.9%	28.1%	23.9%	16.2%
	MH+SA (3)	16.8%	12.3%	15.5%	9.8%	23.3%	17.0%	14.2%
	BH (1-3)	70.8%	57.0%	36.4%	37.8%	60.8%	49.6%	48.8%
IP avoidable hospitalizations	MH only (1)	40.0%	26.1%	14.1%	17.3%	11.5%	12.6%	23.2%
	SA only (2)	12.4%	12.9%	27.9%	23.8%	38.1%	36.9%	21.0%
	MH+SA (3)	5.6%	5.1%	16.3%	9.4%	13.1%	12.6%	8.5%
	BH (1-3)	58.0%	44.1%	58.3%	50.5%	62.7%	62.2%	52.7%
All IP hospitalizations	MH only (1)	37.2%	28.6%	16.3%	14.5%	10.6%	10.7%	19.5%
	SA only (2)	11.6%	10.2%	14.0%	15.2%	31.9%	24.8%	17.1%
	MH+SA (3)	7.3%	6.5%	14.6%	7.4%	19.7%	16.0%	10.4%
	BH (1-3)	56.1%	45.3%	44.8%	37.0%	62.2%	51.4%	46.9%
ED high users	MH only (1)	27.5%	24.2%	13.2%	12.3%	7.8%	7.2%	11.8%
	SA only (2)	14.9%	15.9%	24.1%	33.2%	35.9%	42.6%	33.1%
	MH+SA (3)	34.2%	27.3%	30.1%	20.1%	35.5%	24.1%	26.3%
	BH (1-3)	76.6%	67.3%	67.4%	65.6%	79.2%	73.9%	71.2%
All ED users	MH only (1)	22.6%	15.7%	10.7%	7.6%	7.1%	4.8%	7.9%
	SA only (2)	9.1%	8.4%	14.7%	15.0%	23.7%	28.1%	19.0%
	MH+SA (3)	11.7%	6.6%	11.6%	4.9%	12.1%	6.1%	6.8%
	BH (1-3)	43.4%	30.7%	37.0%	27.5%	42.9%	38.9%	33.6%
ED avoidable visits	MH only (1)	20.7%	13.4%	9.3%	6.3%	7.5%	3.2%	7.8%
	SA only (2)	9.3%	10.1%	10.3%	9.9%	17.2%	15.9%	13.6%
	MH+SA (3)	4.5%	3.2%	4.1%	1.3%	3.1%	1.2%	2.4%
	BH (1-3)	34.6%	26.7%	23.7%	17.6%	27.8%	20.3%	23.7%
All ED visits	MH only (1)	22.7%	15.0%	11.6%	7.3%	8.5%	5.1%	8.6%
	SA only (2)	9.2%	8.8%	12.6%	10.0%	21.1%	20.6%	14.9%
	MH+SA (3)	5.8%	4.3%	4.7%	2.0%	5.2%	2.7%	3.4%
	BH (1-3)	37.7%	28.2%	28.9%	19.2%	34.9%	28.5%	26.8%

Appendix A-3: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Camden

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	39.5%	40.0%	18.9%	26.5%	8.5%	8.3%	26.9%
	SA only (2)	10.6%	10.9%	17.1%	13.5%	24.0%	20.3%	14.8%
	MH+SA (3)	27.0%	23.4%	43.2%	32.5%	53.9%	60.4%	36.2%
	BH (1-3)	77.1%	74.3%	79.3%	72.5%	86.3%	88.9%	77.9%
All IP users	MH only (1)	31.6%	29.2%	12.3%	13.9%	10.5%	7.8%	15.6%
	SA only (2)	11.6%	11.4%	10.2%	14.8%	27.6%	25.8%	16.6%
	MH+SA (3)	14.0%	9.6%	13.5%	9.3%	20.8%	21.0%	13.5%
	BH (1-3)	57.3%	50.2%	36.0%	38.1%	58.8%	54.7%	45.7%
IP avoidable hospitalizations	MH only (1)	24.7%	23.3%	14.6%	17.0%	11.6%	9.6%	18.6%
	SA only (2)	11.4%	12.1%	22.3%	21.4%	37.6%	28.9%	19.6%
	MH+SA (3)	3.8%	3.1%	8.4%	8.0%	10.1%	15.8%	6.5%
	BH (1-3)	39.9%	38.5%	45.2%	46.4%	59.3%	54.4%	44.7%
All IP hospitalizations	MH only (1)	24.6%	22.7%	13.4%	13.7%	10.2%	8.7%	15.4%
	SA only (2)	10.2%	10.1%	13.3%	14.4%	28.8%	27.2%	16.3%
	MH+SA (3)	5.5%	4.4%	10.8%	6.6%	18.9%	19.4%	9.9%
	BH (1-3)	40.3%	37.1%	37.5%	34.7%	58.0%	55.2%	41.5%
ED high users	MH only (1)	25.9%	25.7%	15.2%	12.3%	11.5%	8.9%	13.1%
	SA only (2)	13.8%	9.8%	13.0%	12.5%	21.3%	20.8%	15.5%
	MH+SA (3)	18.3%	18.0%	16.4%	9.8%	24.1%	17.6%	15.0%
	BH (1-3)	58.0%	53.5%	44.6%	34.6%	56.9%	47.3%	43.6%
All ED users	MH only (1)	16.9%	13.6%	8.7%	6.3%	6.6%	4.9%	6.8%
	SA only (2)	8.1%	6.8%	7.2%	6.7%	11.5%	11.5%	8.5%
	MH+SA (3)	5.4%	4.2%	5.5%	3.2%	7.5%	5.1%	4.3%
	BH (1-3)	30.5%	24.6%	21.3%	16.2%	25.5%	21.5%	19.6%
ED avoidable visits	MH only (1)	6.0%	6.8%	2.2%	2.0%	2.3%	0.8%	2.1%
	SA only (2)	4.3%	4.5%	2.9%	3.1%	5.4%	3.4%	3.3%
	MH+SA (3)	0.8%	1.0%	0.7%	0.5%	0.5%	0.3%	0.5%
	BH (1-3)	11.1%	12.3%	5.8%	5.6%	8.2%	4.5%	5.9%
All ED visits	MH only (1)	11.3%	10.4%	6.4%	3.8%	6.0%	3.9%	5.1%
	SA only (2)	5.3%	4.5%	4.2%	3.1%	8.0%	7.0%	4.9%
	MH+SA (3)	1.9%	1.5%	1.6%	0.8%	2.4%	1.6%	1.4%
	BH (1-3)	18.5%	16.4%	12.3%	7.7%	16.4%	12.5%	11.4%

Appendix A-4: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Elizabeth

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	55.3%	53.3%	26.0%	31.7%	17.6%	19.5%	40.0%
	SA only (2)	4.4%	4.7%	13.6%	10.2%	24.6%	16.1%	9.7%
	MH+SA (3)	18.9%	13.7%	38.8%	24.4%	37.3%	43.2%	22.5%
	BH (1-3)	78.6%	71.7%	78.5%	66.3%	79.5%	78.8%	72.3%
All IP users	MH only (1)	39.9%	36.0%	10.5%	12.6%	8.9%	7.9%	17.1%
	SA only (2)	5.0%	5.9%	6.0%	9.5%	21.7%	16.0%	10.6%
	MH+SA (3)	6.8%	6.1%	6.9%	4.6%	9.9%	7.5%	6.0%
	BH (1-3)	51.7%	47.9%	23.4%	26.7%	40.5%	31.4%	33.8%
IP avoidable hospitalizations	MH only (1)	31.6%	29.6%	23.2%	16.3%	10.6%	9.9%	23.1%
	SA only (2)	5.4%	5.8%	13.4%	12.7%	26.2%	21.5%	11.2%
	MH+SA (3)	3.2%	3.0%	5.6%	2.9%	5.6%	6.6%	3.5%
	BH (1-3)	40.3%	38.4%	42.2%	31.9%	42.4%	38.0%	37.8%
All IP hospitalizations	MH only (1)	30.1%	28.7%	11.8%	12.4%	9.2%	8.1%	17.0%
	SA only (2)	6.2%	5.5%	9.5%	9.7%	24.4%	19.9%	11.0%
	MH+SA (3)	3.6%	2.7%	5.7%	3.0%	7.8%	6.2%	4.0%
	BH (1-3)	39.9%	36.9%	26.9%	25.2%	41.5%	34.1%	31.9%
ED high users	MH only (1)	34.8%	35.4%	23.9%	16.8%	14.1%	12.9%	17.7%
	SA only (2)	9.1%	9.5%	11.8%	16.7%	18.5%	24.6%	17.5%
	MH+SA (3)	22.7%	17.2%	20.2%	12.3%	17.0%	16.5%	15.5%
	BH (1-3)	66.7%	62.1%	55.9%	45.7%	49.6%	53.9%	50.7%
All ED users	MH only (1)	22.3%	19.6%	10.9%	7.3%	7.0%	4.8%	7.8%
	SA only (2)	4.5%	4.2%	6.1%	7.4%	8.1%	14.7%	8.4%
	MH+SA (3)	3.7%	2.8%	4.8%	2.2%	3.5%	3.0%	2.6%
	BH (1-3)	30.5%	26.6%	21.8%	16.9%	18.6%	22.4%	18.8%
ED avoidable visits	MH only (1)	14.9%	12.7%	6.8%	3.9%	3.7%	2.5%	4.8%
	SA only (2)	4.2%	2.9%	3.9%	4.9%	3.1%	7.5%	4.8%
	MH+SA (3)	1.7%	0.7%	0.7%	0.4%	0.3%	0.6%	0.5%
	BH (1-3)	20.8%	16.3%	11.3%	9.1%	7.1%	10.6%	10.1%
All ED visits	MH only (1)	16.9%	16.8%	10.8%	5.7%	5.8%	4.3%	6.7%
	SA only (2)	4.7%	4.4%	5.7%	5.6%	8.4%	11.4%	7.1%
	MH+SA (3)	3.3%	2.4%	2.3%	1.0%	1.8%	1.6%	1.5%
	BH (1-3)	24.9%	23.6%	18.8%	12.2%	16.0%	17.3%	15.3%

Appendix A-5: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Jersey City

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	46.7%	46.5%	24.1%	28.4%	11.8%	15.1%	34.5%
	SA only (2)	7.7%	6.3%	18.0%	13.9%	31.6%	27.5%	13.5%
	MH+SA (3)	18.6%	13.4%	33.8%	22.4%	38.6%	35.7%	22.1%
	BH (1-3)	73.0%	66.3%	75.8%	64.7%	82.0%	78.4%	70.1%
All IP users	MH only (1)	33.9%	30.0%	10.2%	9.7%	8.5%	8.6%	15.0%
	SA only (2)	7.8%	6.2%	9.9%	8.7%	28.3%	21.3%	11.9%
	MH+SA (3)	8.4%	5.2%	8.2%	3.9%	10.6%	8.6%	6.0%
	BH (1-3)	50.1%	41.4%	28.4%	22.2%	47.5%	38.5%	32.9%
IP avoidable hospitalizations	MH only (1)	29.4%	22.0%	15.0%	13.2%	10.4%	9.4%	18.5%
	SA only (2)	7.8%	6.3%	22.1%	11.8%	29.7%	24.7%	12.5%
	MH+SA (3)	3.4%	1.9%	4.9%	2.7%	4.3%	3.5%	2.9%
	BH (1-3)	40.7%	30.2%	42.1%	27.6%	44.5%	37.6%	33.9%
All IP hospitalizations	MH only (1)	25.5%	22.5%	11.9%	9.7%	8.5%	8.6%	14.5%
	SA only (2)	8.2%	5.7%	14.0%	9.3%	33.7%	23.9%	12.8%
	MH+SA (3)	3.2%	2.0%	5.6%	2.5%	7.5%	7.0%	3.6%
	BH (1-3)	36.9%	30.2%	31.5%	21.5%	49.7%	39.5%	31.0%
ED high users	MH only (1)	32.2%	28.9%	17.0%	16.1%	13.0%	10.6%	16.1%
	SA only (2)	12.1%	9.7%	18.4%	17.2%	24.0%	25.3%	19.7%
	MH+SA (3)	17.8%	14.8%	16.6%	11.2%	20.8%	21.3%	16.7%
	BH (1-3)	62.1%	53.5%	52.1%	44.5%	57.7%	57.3%	52.5%
All ED users	MH only (1)	17.5%	11.6%	8.5%	5.1%	6.0%	4.9%	6.3%
	SA only (2)	5.5%	3.7%	8.0%	5.5%	10.7%	12.9%	8.0%
	MH+SA (3)	3.5%	1.9%	4.2%	1.5%	4.0%	3.6%	2.5%
	BH (1-3)	26.5%	17.2%	20.7%	12.2%	20.7%	21.4%	16.8%
ED avoidable visits	MH only (1)	7.5%	5.2%	2.5%	2.2%	1.6%	1.5%	2.5%
	SA only (2)	3.7%	2.7%	3.6%	3.0%	2.9%	3.0%	3.9%
	MH+SA (3)	0.6%	0.4%	0.6%	0.3%	0.1%	0.2%	0.4%
	BH (1-3)	11.8%	8.3%	6.7%	5.4%	4.6%	4.7%	6.7%
All ED visits	MH only (1)	11.0%	9.4%	5.5%	3.8%	4.2%	3.9%	4.8%
	SA only (2)	5.4%	4.2%	6.7%	4.2%	13.8%	11.9%	7.9%
	MH+SA (3)	1.2%	0.9%	1.4%	0.6%	1.5%	1.5%	1.1%
	BH (1-3)	17.7%	14.5%	13.7%	8.6%	19.6%	17.2%	13.8%

Appendix A-6: Prevalence of Mental Health and Substance Abuse among Hospital Patients in New Brunswick

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	53.6%	55.6%	31.6%	35.6%	18.7%	18.0%	43.3%
	SA only (2)	5.9%	3.6%	6.3%	7.6%	11.3%	18.0%	6.8%
	MH+SA (3)	20.9%	14.5%	31.6%	22.5%	40.7%	39.8%	21.8%
	BH (1-3)	80.3%	73.7%	69.6%	65.7%	70.7%	75.8%	71.9%
All IP users	MH only (1)	45.8%	36.9%	8.0%	12.6%	7.3%	8.3%	17.3%
	SA only (2)	3.6%	4.4%	3.2%	6.1%	15.4%	14.6%	7.5%
	MH+SA (3)	8.7%	5.6%	4.2%	4.1%	7.2%	8.7%	5.3%
	BH (1-3)	58.1%	46.9%	15.5%	22.8%	29.9%	31.6%	30.2%
IP avoidable hospitalizations	MH only (1)	33.7%	31.2%	18.6%	17.4%	13.0%	12.4%	24.3%
	SA only (2)	6.0%	6.3%	15.7%	12.0%	17.3%	29.5%	10.2%
	MH+SA (3)	5.0%	2.6%	6.9%	4.5%	7.1%	8.6%	4.5%
	BH (1-3)	44.7%	40.1%	41.2%	33.9%	37.3%	50.5%	39.0%
All IP hospitalizations	MH only (1)	34.6%	30.2%	10.4%	12.4%	8.3%	8.8%	17.8%
	SA only (2)	4.9%	4.3%	5.1%	7.0%	16.1%	17.1%	7.8%
	MH+SA (3)	4.9%	2.4%	4.2%	3.2%	6.5%	8.2%	3.9%
	BH (1-3)	44.4%	36.8%	19.7%	22.7%	31.0%	34.1%	29.5%
ED high users	MH only (1)	26.3%	37.4%	16.5%	14.5%	10.3%	8.8%	14.3%
	SA only (2)	3.6%	12.1%	11.7%	16.5%	16.4%	24.0%	17.5%
	MH+SA (3)	35.0%	16.7%	28.6%	13.4%	12.3%	18.9%	16.5%
	BH (1-3)	65.0%	66.1%	56.7%	44.4%	39.1%	51.7%	48.2%
All ED users	MH only (1)	25.6%	17.6%	8.9%	5.8%	4.5%	3.6%	6.1%
	SA only (2)	3.1%	3.1%	5.1%	5.4%	6.8%	13.5%	7.9%
	MH+SA (3)	6.9%	2.3%	6.7%	2.3%	2.9%	3.1%	2.6%
	BH (1-3)	35.7%	23.0%	20.7%	13.5%	14.2%	20.2%	16.7%
ED avoidable visits	MH only (1)	10.8%	10.4%	5.7%	2.7%	1.6%	1.5%	3.1%
	SA only (2)	3.1%	3.6%	5.7%	3.5%	2.8%	5.0%	4.0%
	MH+SA (3)	2.2%	1.0%	1.4%	0.4%	0.2%	0.4%	0.5%
	BH (1-3)	16.1%	15.0%	12.8%	6.5%	4.7%	6.9%	7.7%
All ED visits	MH only (1)	17.2%	14.7%	9.1%	4.7%	3.6%	3.7%	5.4%
	SA only (2)	5.0%	3.8%	5.9%	4.3%	5.9%	10.1%	6.3%
	MH+SA (3)	3.4%	2.1%	3.4%	1.1%	1.4%	1.7%	1.5%
	BH (1-3)	25.6%	20.7%	18.4%	10.1%	10.8%	15.5%	13.2%

Appendix A-7: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Newark

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	48.1%	47.8%	18.6%	28.9%	13.7%	12.5%	33.5%
	SA only (2)	7.4%	6.3%	15.3%	12.4%	25.3%	21.7%	12.2%
	MH+SA (3)	27.7%	24.1%	52.7%	28.1%	45.6%	52.8%	33.9%
	BH (1-3)	83.2%	78.2%	86.6%	69.4%	84.6%	86.9%	79.7%
All IP users	MH only (1)	39.1%	33.9%	11.6%	12.6%	9.5%	8.7%	16.9%
	SA only (2)	9.1%	8.7%	12.0%	12.0%	29.5%	26.2%	15.6%
	MH+SA (3)	14.5%	10.3%	14.5%	6.6%	14.4%	15.2%	10.9%
	BH (1-3)	62.6%	52.9%	38.0%	31.2%	53.3%	50.2%	43.4%
IP avoidable hospitalizations	MH only (1)	31.6%	28.4%	15.2%	15.4%	8.8%	9.4%	21.3%
	SA only (2)	9.7%	9.8%	27.0%	18.9%	37.1%	36.7%	18.2%
	MH+SA (3)	4.6%	3.5%	10.5%	4.8%	6.8%	6.8%	5.4%
	BH (1-3)	45.9%	41.7%	52.7%	39.1%	52.7%	52.9%	44.9%
All IP hospitalizations	MH only (1)	31.1%	27.3%	15.8%	13.0%	10.3%	9.6%	18.1%
	SA only (2)	9.3%	8.6%	17.3%	12.3%	33.6%	30.5%	16.4%
	MH+SA (3)	5.8%	3.8%	11.6%	4.3%	11.1%	13.0%	7.2%
	BH (1-3)	46.1%	39.6%	44.6%	29.7%	55.0%	53.1%	41.6%
ED high users	MH only (1)	25.5%	24.6%	11.3%	11.3%	9.7%	6.8%	11.2%
	SA only (2)	16.5%	16.5%	27.6%	28.4%	31.8%	40.5%	30.8%
	MH+SA (3)	29.2%	20.7%	27.6%	14.9%	23.2%	23.1%	21.2%
	BH (1-3)	71.1%	61.8%	66.5%	54.6%	64.7%	70.4%	63.2%
All ED users	MH only (1)	19.3%	12.9%	7.7%	5.4%	5.3%	3.6%	5.8%
	SA only (2)	10.7%	8.7%	18.0%	14.2%	20.1%	26.2%	18.1%
	MH+SA (3)	7.8%	3.7%	9.2%	3.3%	6.1%	5.4%	4.7%
	BH (1-3)	37.7%	25.3%	34.9%	22.8%	31.5%	35.2%	28.6%
ED avoidable visits	MH only (1)	9.8%	7.8%	4.6%	3.1%	2.3%	1.9%	3.5%
	SA only (2)	10.5%	9.4%	13.9%	12.0%	15.8%	19.4%	14.6%
	MH+SA (3)	2.7%	2.0%	2.6%	1.2%	1.1%	1.2%	1.6%
	BH (1-3)	23.0%	19.2%	21.1%	16.3%	19.2%	22.5%	19.6%
All ED visits	MH only (1)	14.7%	10.4%	7.7%	4.0%	4.4%	3.4%	5.2%
	SA only (2)	10.8%	9.1%	15.1%	10.9%	18.9%	22.4%	15.5%
	MH+SA (3)	4.5%	2.7%	6.0%	1.4%	2.9%	3.1%	2.9%
	BH (1-3)	30.0%	22.2%	28.7%	16.4%	26.1%	28.9%	23.5%

Appendix A-8: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Paterson

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	48.8%	49.9%	26.5%	32.6%	14.9%	17.8%	36.7%
	SA only (2)	4.8%	4.8%	11.8%	11.0%	21.9%	20.1%	10.2%
	MH+SA (3)	17.1%	12.0%	35.7%	22.3%	40.9%	35.6%	22.4%
	BH (1-3)	70.8%	66.7%	74.0%	65.8%	77.7%	73.5%	69.3%
All IP users	MH only (1)	34.8%	31.4%	12.6%	11.6%	9.7%	6.4%	15.6%
	SA only (2)	5.9%	6.0%	6.8%	7.8%	20.2%	12.4%	9.9%
	MH+SA (3)	8.1%	4.6%	8.7%	4.4%	10.2%	6.7%	6.0%
	BH (1-3)	48.9%	42.1%	28.1%	23.8%	40.1%	25.5%	31.5%
IP avoidable hospitalizations	MH only (1)	27.4%	26.0%	19.4%	15.7%	7.9%	10.9%	20.3%
	SA only (2)	6.2%	5.2%	19.6%	12.2%	27.0%	27.6%	11.6%
	MH+SA (3)	2.0%	1.6%	8.0%	2.6%	4.5%	5.8%	3.0%
	BH (1-3)	35.7%	32.8%	47.1%	30.4%	39.3%	44.4%	34.8%
All IP hospitalizations	MH only (1)	27.5%	25.3%	15.9%	12.0%	10.0%	7.9%	16.0%
	SA only (2)	5.9%	5.1%	9.7%	8.0%	23.5%	14.9%	10.3%
	MH+SA (3)	3.6%	1.9%	8.1%	3.1%	8.8%	6.8%	4.4%
	BH (1-3)	37.0%	32.3%	33.6%	23.1%	42.3%	29.6%	30.7%
ED high users	MH only (1)	25.3%	27.6%	18.6%	17.9%	12.8%	12.0%	16.6%
	SA only (2)	10.7%	10.9%	19.7%	18.4%	26.3%	30.2%	21.5%
	MH+SA (3)	18.0%	14.0%	18.9%	12.2%	16.9%	18.5%	15.3%
	BH (1-3)	54.0%	52.5%	57.2%	48.5%	56.0%	60.7%	53.4%
All ED users	MH only (1)	15.2%	12.3%	9.2%	6.5%	6.1%	4.8%	6.6%
	SA only (2)	5.5%	4.3%	9.7%	7.2%	11.2%	16.2%	9.5%
	MH+SA (3)	3.8%	1.6%	4.6%	2.1%	3.6%	3.0%	2.5%
	BH (1-3)	24.5%	18.2%	23.5%	15.8%	20.9%	24.0%	18.6%
ED avoidable visits	MH only (1)	7.5%	6.2%	4.4%	2.6%	2.6%	1.8%	3.1%
	SA only (2)	3.5%	3.1%	6.1%	4.0%	6.2%	7.4%	5.1%
	MH+SA (3)	0.6%	0.5%	0.8%	0.3%	0.4%	0.3%	0.4%
	BH (1-3)	11.6%	9.8%	11.3%	7.0%	9.2%	9.6%	8.6%
All ED visits	MH only (1)	11.8%	10.3%	8.2%	4.9%	4.8%	3.9%	5.4%
	SA only (2)	5.6%	3.7%	7.2%	5.0%	10.1%	12.5%	7.5%
	MH+SA (3)	1.3%	0.9%	2.0%	0.7%	1.4%	1.4%	1.1%
	BH (1-3)	18.8%	14.9%	17.4%	10.6%	16.3%	17.8%	14.0%

Appendix A-9: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Perth Amboy

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	63.8%	51.9%	35.0%	32.5%	22.2%	16.7%	45.6%
	SA only (2)	2.7%	5.1%	8.8%	11.0%	20.4%	21.7%	7.8%
	MH+SA (3)	16.0%	12.9%	33.1%	24.6%	30.6%	45.0%	20.7%
	BH (1-3)	82.5%	69.8%	76.9%	68.0%	73.1%	83.3%	74.1%
All IP users	MH only (1)	50.1%	33.8%	12.0%	11.2%	10.1%	9.3%	18.4%
	SA only (2)	4.0%	5.0%	4.9%	7.6%	16.0%	14.4%	8.2%
	MH+SA (3)	8.3%	5.4%	5.6%	3.8%	8.2%	11.0%	5.9%
	BH (1-3)	62.4%	44.2%	22.4%	22.6%	34.4%	34.7%	32.4%
IP avoidable hospitalizations	MH only (1)	31.1%	25.4%	16.7%	13.3%	7.5%	17.4%	21.2%
	SA only (2)	5.6%	4.8%	15.0%	10.3%	13.8%	19.6%	8.9%
	MH+SA (3)	4.1%	1.7%	5.5%	3.0%	2.6%	0.0%	3.0%
	BH (1-3)	40.8%	31.9%	37.2%	26.6%	23.9%	37.0%	33.1%
All IP hospitalizations	MH only (1)	40.1%	27.4%	16.6%	12.2%	11.3%	10.6%	20.4%
	SA only (2)	3.3%	4.5%	7.7%	8.0%	19.2%	18.0%	8.3%
	MH+SA (3)	3.4%	2.4%	4.5%	2.8%	6.5%	8.8%	3.8%
	BH (1-3)	46.9%	34.3%	28.8%	22.9%	36.9%	37.4%	32.4%
ED high users	MH only (1)	38.8%	36.2%	20.9%	17.7%	14.8%	10.0%	19.1%
	SA only (2)	11.5%	9.4%	19.4%	21.7%	20.7%	34.1%	22.3%
	MH+SA (3)	18.6%	21.3%	20.8%	14.7%	29.3%	20.2%	19.6%
	BH (1-3)	68.9%	66.9%	61.1%	54.1%	64.8%	64.2%	61.0%
All ED users	MH only (1)	30.5%	17.0%	10.5%	7.2%	8.3%	4.8%	8.4%
	SA only (2)	4.3%	5.2%	10.3%	8.0%	13.5%	18.8%	11.3%
	MH+SA (3)	4.9%	3.1%	5.7%	2.3%	5.8%	3.8%	3.4%
	BH (1-3)	39.7%	25.4%	26.5%	17.4%	27.5%	27.5%	23.1%
ED avoidable visits	MH only (1)	14.7%	10.3%	5.0%	3.6%	3.4%	2.2%	4.8%
	SA only (2)	4.1%	4.3%	7.4%	4.8%	7.6%	8.7%	7.0%
	MH+SA (3)	2.0%	1.3%	1.1%	0.4%	0.6%	0.5%	0.8%
	BH (1-3)	20.8%	15.8%	13.5%	8.8%	11.7%	11.4%	12.7%
All ED visits	MH only (1)	20.4%	14.3%	8.0%	5.7%	6.3%	4.4%	7.0%
	SA only (2)	4.2%	4.4%	7.7%	5.7%	14.9%	14.0%	8.9%
	MH+SA (3)	2.5%	1.8%	2.0%	1.0%	2.1%	1.7%	1.6%
	BH (1-3)	27.2%	20.5%	17.6%	12.5%	23.3%	20.1%	17.5%

Appendix A-10: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Plainfield

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	42.9%	38.5%	18.9%	27.9%	17.6%	12.2%	32.2%
	SA only (2)	6.4%	6.0%	12.2%	9.7%	19.6%	28.6%	9.8%
	MH+SA (3)	23.6%	13.5%	43.2%	19.7%	36.3%	24.5%	20.7%
	BH (1-3)	72.9%	57.9%	74.3%	57.4%	73.5%	65.3%	62.7%
All IP users	MH only (1)	39.4%	30.3%	6.1%	10.7%	7.0%	7.1%	14.4%
	SA only (2)	6.8%	5.8%	4.5%	7.9%	18.8%	14.9%	9.1%
	MH+SA (3)	10.4%	5.2%	4.9%	4.2%	7.7%	7.5%	5.4%
	BH (1-3)	56.7%	41.3%	15.5%	22.8%	33.5%	29.4%	28.9%
IP avoidable hospitalizations	MH only (1)	27.9%	24.1%	13.7%	13.5%	7.8%	14.5%	18.8%
	SA only (2)	4.7%	5.5%	20.6%	9.0%	18.2%	27.5%	9.4%
	MH+SA (3)	3.5%	2.1%	6.9%	3.7%	4.7%	2.9%	3.3%
	BH (1-3)	36.2%	31.7%	41.2%	26.2%	30.6%	44.9%	31.5%
All IP hospitalizations	MH only (1)	28.7%	23.4%	8.2%	10.9%	7.5%	6.7%	14.4%
	SA only (2)	5.0%	5.3%	8.1%	7.7%	19.0%	16.9%	9.0%
	MH+SA (3)	5.2%	2.8%	4.7%	2.6%	7.1%	6.0%	3.7%
	BH (1-3)	38.9%	31.4%	21.1%	21.3%	33.6%	29.6%	27.1%
ED high users	MH only (1)	41.3%	45.4%	20.0%	18.9%	18.9%	13.5%	20.3%
	SA only (2)	5.8%	5.7%	12.0%	9.9%	17.6%	20.1%	13.0%
	MH+SA (3)	17.4%	11.3%	14.2%	10.1%	18.2%	14.0%	12.9%
	BH (1-3)	64.5%	62.4%	46.2%	38.8%	54.7%	47.6%	46.1%
All ED users	MH only (1)	31.7%	19.0%	10.6%	7.6%	6.9%	5.0%	7.9%
	SA only (2)	2.9%	2.4%	5.5%	4.6%	5.9%	14.0%	7.2%
	MH+SA (3)	5.1%	2.3%	4.2%	2.0%	3.3%	2.8%	2.4%
	BH (1-3)	39.7%	23.6%	20.2%	14.2%	16.0%	21.8%	17.5%
ED avoidable visits	MH only (1)	19.4%	10.5%	5.2%	4.0%	3.3%	2.2%	4.6%
	SA only (2)	1.1%	2.0%	1.6%	2.4%	2.2%	4.1%	2.7%
	MH+SA (3)	0.3%	0.7%	0.3%	0.4%	0.2%	0.4%	0.4%
	BH (1-3)	20.8%	13.2%	7.1%	6.8%	5.7%	6.7%	7.8%
All ED visits	MH only (1)	24.5%	16.1%	6.9%	5.8%	5.4%	4.5%	6.7%
	SA only (2)	2.1%	2.1%	3.5%	3.2%	5.2%	10.0%	5.1%
	MH+SA (3)	1.7%	1.6%	1.3%	1.0%	1.9%	1.4%	1.2%
	BH (1-3)	28.3%	19.8%	11.8%	10.0%	12.6%	15.8%	13.0%

Appendix A-11: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Trenton

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	45.9%	48.3%	20.3%	26.9%	13.7%	17.1%	33.3%
	SA only (2)	10.0%	6.3%	13.9%	16.5%	22.0%	20.7%	12.9%
	MH+SA (3)	23.5%	17.7%	47.6%	27.4%	53.1%	44.6%	30.7%
	BH (1-3)	79.4%	72.2%	81.8%	70.8%	88.8%	82.5%	76.9%
All IP users	MH only (1)	38.2%	34.2%	12.0%	13.2%	9.2%	8.0%	17.6%
	SA only (2)	9.9%	7.4%	12.2%	14.3%	25.0%	19.5%	14.7%
	MH+SA (3)	13.9%	7.5%	14.9%	7.0%	19.8%	13.3%	11.0%
	BH (1-3)	62.1%	49.2%	39.1%	34.4%	54.0%	40.8%	43.3%
IP avoidable hospitalizations	MH only (1)	27.4%	27.3%	18.1%	15.7%	9.9%	12.2%	20.9%
	SA only (2)	10.3%	7.8%	25.3%	19.5%	31.4%	24.5%	16.4%
	MH+SA (3)	5.1%	2.7%	10.7%	6.1%	8.4%	6.4%	5.5%
	BH (1-3)	42.7%	37.8%	54.1%	41.2%	49.6%	43.1%	42.9%
All IP hospitalizations	MH only (1)	29.5%	28.1%	14.8%	12.7%	10.1%	10.1%	17.9%
	SA only (2)	8.5%	6.2%	13.4%	13.8%	26.8%	21.3%	14.0%
	MH+SA (3)	5.7%	3.5%	13.3%	4.9%	17.1%	12.5%	8.1%
	BH (1-3)	43.7%	37.9%	41.6%	31.4%	54.0%	44.0%	40.0%
ED high users	MH only (1)	32.2%	34.2%	17.9%	17.8%	15.2%	13.0%	18.1%
	SA only (2)	11.1%	7.2%	12.7%	14.6%	18.6%	25.1%	16.6%
	MH+SA (3)	21.8%	16.7%	19.6%	14.4%	27.9%	21.4%	19.9%
	BH (1-3)	65.2%	58.1%	50.2%	46.8%	61.7%	59.6%	54.5%
All ED users	MH only (1)	24.3%	15.2%	12.8%	8.4%	8.1%	6.1%	9.0%
	SA only (2)	6.9%	3.7%	9.0%	7.1%	12.5%	17.3%	10.5%
	MH+SA (3)	8.7%	3.4%	8.2%	3.4%	8.1%	5.4%	5.0%
	BH (1-3)	40.0%	22.3%	30.0%	18.9%	28.7%	28.8%	24.4%
ED avoidable visits	MH only (1)	11.5%	8.9%	5.7%	3.9%	4.2%	2.9%	4.9%
	SA only (2)	6.4%	3.8%	3.5%	6.3%	8.0%	8.8%	6.5%
	MH+SA (3)	2.5%	2.3%	1.5%	1.5%	1.5%	1.2%	1.6%
	BH (1-3)	20.4%	15.0%	10.7%	11.6%	13.7%	12.9%	13.0%
All ED visits	MH only (1)	16.9%	11.7%	8.9%	5.8%	6.4%	5.2%	7.2%
	SA only (2)	6.1%	3.4%	6.2%	5.4%	13.5%	13.2%	8.5%
	MH+SA (3)	3.3%	2.3%	3.1%	1.7%	4.6%	2.7%	2.7%
	BH (1-3)	26.3%	17.4%	18.2%	12.9%	24.4%	21.1%	18.4%

Appendix A-12: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Union City

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	72.5%	61.0%	39.7%	41.6%	25.4%	23.0%	54.1%
	SA only (2)	2.1%	3.2%	8.4%	7.8%	14.5%	9.4%	5.4%
	MH+SA (3)	9.7%	11.5%	25.8%	19.9%	33.5%	32.4%	16.2%
	BH (1-3)	84.3%	75.7%	73.9%	69.4%	73.4%	64.7%	75.8%
All IP users	MH only (1)	49.9%	38.3%	11.2%	12.9%	10.0%	8.3%	20.4%
	SA only (2)	3.2%	4.6%	3.5%	6.1%	13.5%	11.2%	6.7%
	MH+SA (3)	5.1%	4.7%	4.0%	3.4%	6.3%	5.4%	4.4%
	BH (1-3)	58.2%	47.6%	18.7%	22.4%	29.8%	24.8%	31.4%
IP avoidable hospitalizations	MH only (1)	46.9%	34.6%	26.0%	20.6%	11.8%	9.5%	31.1%
	SA only (2)	2.7%	4.2%	9.3%	9.2%	16.5%	15.8%	6.8%
	MH+SA (3)	1.5%	2.1%	5.5%	3.5%	2.5%	3.2%	2.5%
	BH (1-3)	51.1%	40.9%	40.9%	33.3%	30.8%	28.4%	40.4%
All IP hospitalizations	MH only (1)	41.6%	31.9%	15.5%	13.8%	9.8%	8.9%	21.9%
	SA only (2)	3.2%	4.1%	5.1%	6.3%	15.6%	12.6%	6.7%
	MH+SA (3)	1.8%	2.3%	3.9%	2.3%	4.8%	4.5%	2.7%
	BH (1-3)	46.5%	38.3%	24.5%	22.5%	30.1%	26.0%	31.3%
ED high users	MH only (1)	42.6%	35.2%	27.9%	20.9%	20.6%	15.4%	22.7%
	SA only (2)	4.6%	5.9%	8.4%	10.1%	12.8%	18.8%	11.9%
	MH+SA (3)	11.8%	9.4%	15.3%	11.2%	13.4%	18.1%	13.5%
	BH (1-3)	59.0%	50.5%	51.5%	42.1%	46.8%	52.3%	48.1%
All ED users	MH only (1)	19.2%	13.1%	9.6%	6.5%	6.3%	5.0%	7.1%
	SA only (2)	1.8%	2.3%	4.0%	4.0%	5.1%	17.1%	7.6%
	MH+SA (3)	1.3%	1.0%	2.6%	1.3%	1.9%	2.4%	1.6%
	BH (1-3)	22.3%	16.3%	16.2%	11.8%	13.3%	24.5%	16.3%
ED avoidable visits	MH only (1)	8.4%	6.3%	2.9%	2.8%	1.8%	2.0%	3.0%
	SA only (2)	1.2%	1.4%	1.3%	1.8%	1.3%	2.6%	1.9%
	MH+SA (3)	0.1%	0.4%	0.2%	0.1%	0.1%	0.2%	0.2%
	BH (1-3)	9.7%	8.1%	4.4%	4.7%	3.2%	4.8%	5.1%
All ED visits	MH only (1)	14.1%	10.3%	7.5%	5.1%	5.0%	4.6%	5.9%
	SA only (2)	2.5%	2.8%	3.6%	3.3%	4.7%	13.7%	6.3%
	MH+SA (3)	0.7%	0.7%	1.0%	0.6%	0.9%	1.3%	0.8%
	BH (1-3)	17.3%	13.8%	12.0%	9.0%	10.6%	19.6%	13.0%

Appendix A-13: Prevalence of Mental Health and Substance Abuse among Hospital Patients in Vineland

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	59.4%	52.0%	27.3%	25.1%	13.2%	15.6%	42.6%
	SA only (2)	4.4%	5.8%	12.1%	12.2%	26.3%	28.9%	9.2%
	MH+SA (3)	22.3%	12.1%	37.7%	24.6%	44.7%	34.4%	20.6%
	BH (1-3)	86.1%	69.9%	77.1%	61.8%	84.2%	78.9%	72.4%
All IP users	MH only (1)	49.8%	32.0%	13.1%	12.6%	7.8%	9.2%	20.0%
	SA only (2)	5.4%	5.6%	7.3%	9.3%	24.7%	21.5%	9.3%
	MH+SA (3)	12.6%	4.9%	10.4%	5.7%	13.6%	13.4%	7.4%
	BH (1-3)	67.8%	42.5%	30.8%	27.6%	46.2%	44.1%	36.8%
IP avoidable hospitalizations	MH only (1)	37.5%	27.8%	16.4%	15.8%	14.5%	9.2%	24.3%
	SA only (2)	6.0%	4.1%	14.4%	9.8%	30.5%	32.5%	7.2%
	MH+SA (3)	2.0%	2.5%	8.7%	3.6%	5.3%	5.3%	3.2%
	BH (1-3)	45.6%	34.4%	39.4%	29.2%	50.4%	47.1%	34.7%
All IP hospitalizations	MH only (1)	37.7%	24.3%	13.9%	12.1%	9.1%	8.5%	18.7%
	SA only (2)	5.1%	4.6%	8.8%	8.9%	25.8%	20.6%	8.4%
	MH+SA (3)	5.3%	2.3%	7.9%	3.8%	9.7%	9.9%	4.5%
	BH (1-3)	48.1%	31.2%	30.5%	24.8%	44.5%	39.0%	31.7%
ED high users	MH only (1)	54.3%	42.2%	24.8%	19.9%	13.2%	14.3%	24.7%
	SA only (2)	4.4%	7.5%	16.2%	14.0%	20.7%	27.7%	16.6%
	MH+SA (3)	12.2%	10.0%	15.9%	13.6%	17.3%	17.5%	14.9%
	BH (1-3)	70.8%	59.6%	56.9%	47.4%	51.2%	59.5%	56.2%
All ED users	MH only (1)	32.1%	15.8%	12.2%	7.3%	6.2%	6.9%	9.5%
	SA only (2)	2.9%	2.3%	8.2%	4.8%	9.6%	13.3%	6.6%
	MH+SA (3)	4.9%	1.2%	4.8%	2.0%	4.3%	4.3%	2.7%
	BH (1-3)	39.9%	19.3%	25.2%	14.1%	20.1%	24.6%	18.8%
ED avoidable visits	MH only (1)	4.0%	11.0%	5.1%	3.8%	2.8%	2.5%	5.0%
	SA only (2)	0.6%	1.5%	2.7%	2.3%	2.4%	3.0%	2.9%
	MH+SA (3)	0.4%	0.8%	0.6%	0.4%	0.2%	0.3%	0.6%
	BH (1-3)	5.0%	13.2%	8.4%	6.5%	5.3%	5.8%	8.5%
All ED visits	MH only (1)	17.6%	12.0%	8.1%	5.6%	4.4%	4.8%	7.3%
	SA only (2)	2.0%	1.8%	4.4%	3.3%	7.7%	9.7%	4.8%
	MH+SA (3)	1.3%	0.5%	1.2%	0.9%	1.6%	1.4%	1.1%
	BH (1-3)	20.9%	14.4%	13.8%	9.9%	13.8%	15.9%	13.1%

Appendix A-14: Prevalence of Mental Health and Substance Abuse among Hospital Patients in 13 ACO Regions

		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	51.1%	49.9%	22.6%	30.3%	14.3%	14.6%	36.9%
	SA only (2)	6.3%	5.6%	14.6%	12.0%	24.0%	21.0%	11.0%
	MH+SA (3)	22.5%	16.5%	43.7%	25.5%	43.9%	46.3%	26.9%
	BH (1-3)	79.9%	72.0%	80.8%	67.9%	82.2%	81.9%	74.9%
All IP users	MH only (1)	40.0%	33.5%	11.3%	12.2%	9.3%	8.2%	17.2%
	SA only (2)	7.4%	6.7%	9.0%	9.7%	24.2%	19.8%	11.9%
	MH+SA (3)	11.2%	6.7%	10.6%	5.4%	12.7%	11.8%	8.1%
	BH (1-3)	58.6%	46.9%	30.9%	27.3%	46.1%	39.8%	37.2%
IP avoidable hospitalizations	MH only (1)	32.4%	27.3%	16.7%	15.9%	9.8%	10.3%	21.9%
	SA only (2)	8.1%	7.0%	22.3%	14.9%	30.4%	29.3%	13.8%
	MH+SA (3)	3.8%	2.7%	8.9%	4.2%	6.3%	7.3%	4.4%
	BH (1-3)	44.2%	37.0%	47.9%	35.0%	46.5%	46.9%	40.1%
All IP hospitalizations	MH only (1)	31.8%	26.8%	14.3%	12.4%	9.7%	9.1%	17.6%
	SA only (2)	7.5%	6.2%	13.1%	10.1%	27.9%	22.9%	12.5%
	MH+SA (3)	4.8%	2.9%	9.1%	3.7%	10.6%	10.7%	5.6%
	BH (1-3)	44.1%	35.9%	36.5%	26.2%	48.2%	42.6%	35.7%
ED high users	MH only (1)	31.0%	31.1%	16.5%	14.9%	12.3%	9.7%	15.3%
	SA only (2)	11.8%	11.0%	19.5%	20.0%	25.1%	31.2%	22.3%
	MH+SA (3)	23.1%	17.2%	21.1%	13.4%	21.9%	20.9%	18.4%
	BH (1-3)	66.0%	59.2%	57.0%	48.3%	59.3%	61.8%	56.0%
All ED users	MH only (1)	20.7%	14.8%	9.4%	6.4%	6.2%	4.6%	7.0%
	SA only (2)	6.8%	4.8%	10.9%	8.3%	12.8%	18.9%	11.3%
	MH+SA (3)	6.0%	2.6%	6.4%	2.5%	5.0%	4.4%	3.5%
	BH (1-3)	33.5%	22.2%	26.8%	17.2%	24.1%	27.9%	21.9%
ED avoidable visits	MH only (1)	10.8%	8.8%	4.6%	3.2%	2.9%	2.0%	3.9%
	SA only (2)	6.2%	4.7%	6.7%	6.2%	8.2%	10.6%	7.7%
	MH+SA (3)	1.9%	1.3%	1.5%	0.7%	0.8%	0.8%	1.0%
	BH (1-3)	18.9%	14.8%	12.8%	10.2%	11.9%	13.4%	12.5%
All ED visits	MH only (1)	15.6%	12.2%	7.8%	4.8%	5.2%	4.1%	6.0%
	SA only (2)	6.7%	4.9%	8.6%	6.3%	13.0%	15.3%	9.6%
	MH+SA (3)	3.0%	1.8%	3.2%	1.1%	2.4%	2.3%	1.9%
	BH (1-3)	25.3%	19.0%	19.6%	12.3%	20.6%	21.7%	17.5%

Appendix A-15: Prevalence of Mental Health and Substance Abuse among Hospital Patients in All NJ

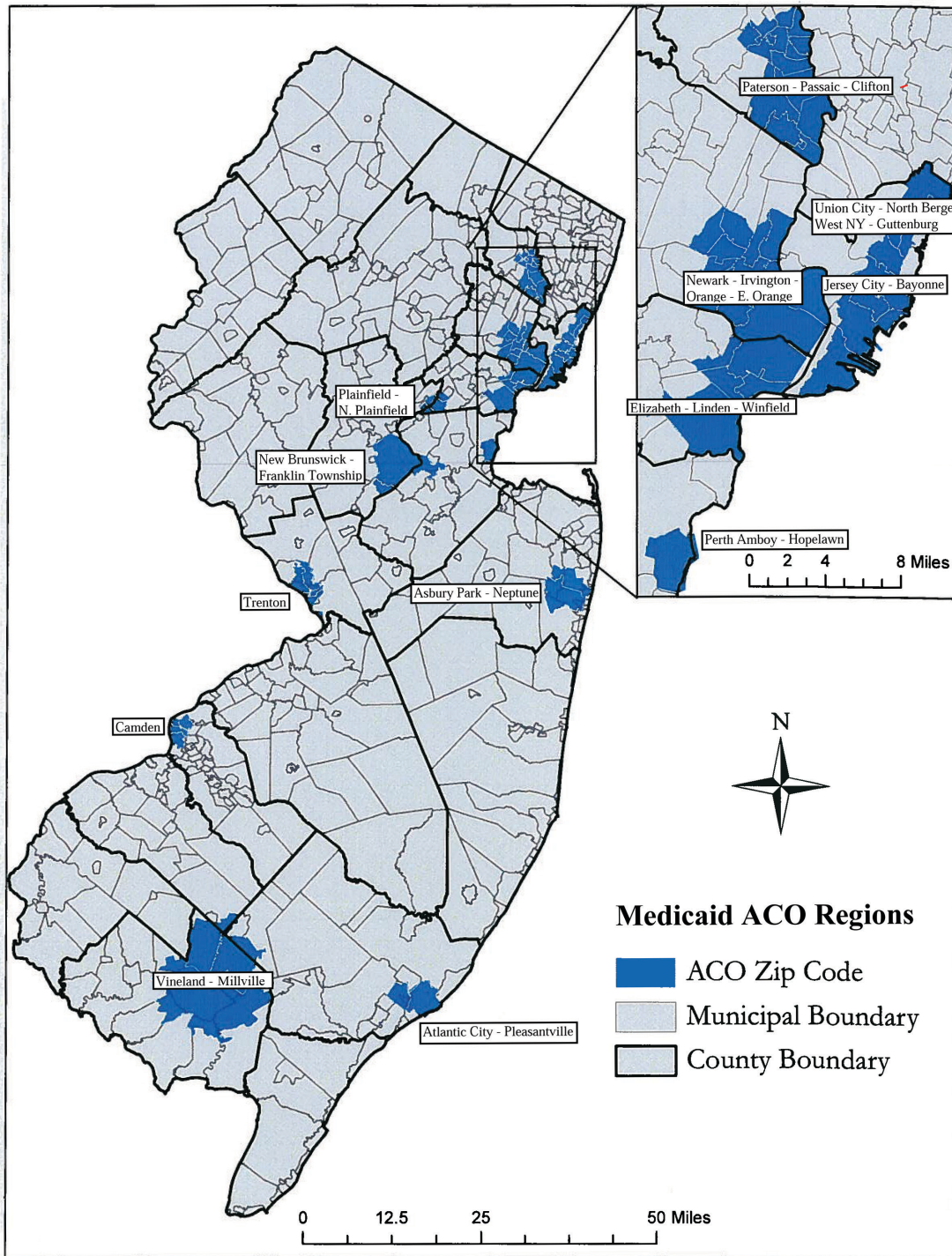
		Duals	Other Medicare	Medicaid	Private	Charity Care	Self-Pay	All Payer
IP high users	MH only (1)	54.4%	56.3%	25.3%	34.1%	14.6%	15.2%	44.7%
	SA only (2)	4.8%	4.1%	11.5%	9.8%	20.3%	17.5%	7.5%
	MH+SA (3)	23.1%	15.0%	45.8%	29.0%	49.5%	52.5%	24.5%
	BH (1-3)	82.3%	75.4%	82.7%	72.8%	84.3%	85.2%	76.7%
All IP users	MH only (1)	45.8%	38.8%	13.0%	15.6%	10.7%	10.0%	22.9%
	SA only (2)	5.7%	5.2%	8.3%	9.1%	23.2%	19.5%	9.4%
	MH+SA (3)	11.5%	5.8%	11.7%	6.2%	16.2%	15.5%	7.8%
	BH (1-3)	63.0%	49.9%	32.9%	30.9%	50.1%	45.1%	40.1%
IP avoidable hospitalizations	MH only (1)	37.9%	34.0%	20.5%	21.3%	12.0%	13.5%	28.8%
	SA only (2)	6.8%	5.4%	20.3%	13.7%	29.6%	27.2%	10.2%
	MH+SA (3)	5.0%	2.9%	10.8%	5.3%	8.1%	8.8%	4.5%
	BH (1-3)	49.7%	42.3%	51.6%	40.2%	49.7%	49.4%	43.6%
All IP hospitalizations	MH only (1)	37.7%	31.7%	16.2%	15.6%	11.2%	11.0%	22.4%
	SA only (2)	6.3%	4.9%	11.7%	9.7%	26.9%	22.4%	9.7%
	MH+SA (3)	6.1%	2.8%	10.6%	4.8%	14.1%	14.3%	5.6%
	BH (1-3)	50.1%	39.4%	38.5%	30.2%	52.2%	47.8%	37.7%
ED high users	MH only (1)	37.2%	39.6%	17.6%	17.9%	12.7%	10.6%	18.8%
	SA only (2)	9.5%	7.1%	19.3%	17.0%	22.9%	28.1%	19.0%
	MH+SA (3)	26.5%	16.8%	25.2%	19.0%	26.9%	26.0%	22.3%
	BH (1-3)	73.2%	63.5%	62.2%	54.0%	62.5%	64.6%	60.0%
All ED users	MH only (1)	27.4%	17.5%	10.8%	7.5%	7.1%	5.6%	8.9%
	SA only (2)	5.4%	3.4%	10.8%	6.7%	12.7%	17.1%	8.4%
	MH+SA (3)	6.9%	2.1%	7.6%	2.8%	6.6%	5.6%	3.5%
	BH (1-3)	39.8%	23.0%	29.2%	17.0%	26.4%	28.2%	20.9%
ED avoidable visits	MH only (1)	16.1%	12.5%	5.9%	4.5%	3.6%	2.8%	5.7%
	SA only (2)	5.7%	3.7%	7.2%	5.4%	8.4%	10.0%	6.6%
	MH+SA (3)	2.5%	1.2%	1.7%	0.7%	1.1%	0.9%	1.1%
	BH (1-3)	24.4%	17.4%	14.9%	10.7%	13.1%	13.7%	13.3%
All ED visits	MH only (1)	22.0%	15.2%	9.6%	6.4%	6.2%	5.1%	7.9%
	SA only (2)	5.9%	3.4%	8.8%	5.8%	12.6%	13.9%	7.8%
	MH+SA (3)	3.9%	1.6%	3.5%	1.6%	3.3%	2.8%	2.1%
	BH (1-3)	31.8%	20.1%	22.0%	13.8%	22.1%	21.8%	17.8%

Appendix B: ACO Study Communities

	<i>ACO Communities</i>	<i>Constituent Municipalities</i>
1	Asbury Park-Neptune	Asbury Park City Neptune Township
2	Atlantic City-Pleasantville	Atlantic City Pleasantville City
3	Camden	Camden City
4	Elizabeth-Linden	Elizabeth City Linden City Winfield Township
5	Jersey City-Bayonne	Jersey City Bayonne City
6	New Brunswick-Franklin	New Brunswick City Franklin Township
7	Greater Newark	Newark City East Orange City Irvington Township City of Orange Township
8	Paterson-Passaic-Clifton	Paterson City Passaic City Clifton City
9	Perth Amboy-Hopelawn	Perth Amboy City Hopelawn
10	Plainfield, North Plainfield	Plainfield City North Plainfield Borough
11	Trenton	Trenton area zip codes*
12	Union City-W. NY- Guttenberg-N. Bergen	Union City West New York Town Guttenburg Town North Bergen Township
13	Vineland-Millville	Vineland City Millville City

*Trenton Health Team (THT) includes ZIP codes: 08608, 08609, 08611, 08618, 08629, and 08638.

Appendix C: ACO Regions Map



Source: Kathe Newman, Rutgers University.

Appendix D: AHRQ Prevention Quality Indicators- Composites and Constituents

Overall Composite (PQI #90)

PQI #01 Diabetes Short-Term Complications Admission Rate	PQI #11 Bacterial Pneumonia Admission Rate
PQI #03 Diabetes Long-Term Complications Admission Rate	PQI #12 Urinary Tract Infection Admission Rate
PQI #05 Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults Admission Rate	PQI #13 Angina without Procedure Admission Rate
PQI #07 Hypertension Admission Rate	PQI #14 Uncontrolled Diabetes Admission Rate
PQI #08 Congestive Heart Failure (CHF) Admission Rate	PQI #15 Asthma in Younger Adults Admission Rate
PQI #10 Dehydration Admission Rate	PQI #16 Rate of Lower-Extremity Amputation Among Patients With Diabetes

Acute Composite (PQI #91)

PQI #10 Dehydration Admission Rate	PQI #12 Urinary Tract Infection Admission Rate
PQI #11 Bacterial Pneumonia Admission Rate	

Chronic Composite (PQI #92)

PQI #01 Diabetes Short-Term Complications Admission Rate	PQI #13 Angina without Procedure Admission Rate
PQI #03 Diabetes Long-Term Complications Admission Rate	PQI #14 Uncontrolled Diabetes Admission Rate
PQI #05 Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults Admission Rate	PQI #15 Asthma in Younger Adults Admission Rate
PQI #07 Hypertension Admission Rate	PQI #16 Rate of Lower-Extremity Amputation Among Patients With Diabetes
PQI #08 Congestive Heart Failure (CHF) Admission Rate	

Source: Prevention Quality Indicators Technical Specifications - Version 4.4, March 2012;
http://www.qualityindicators.ahrq.gov/Modules/PQI_TechSpec.aspx.

Appendix E: Classification of Emergency Department Visits

Type Description	Diagnoses
Non-Emergent: The patient's initial complaint, presenting symptoms, vital signs, medical history, and age indicated that immediate medical care was not required within 12 hours.	Headache, Dental disorder, Types of migraine
Emergent, Primary Care Treatable: Conditions for which treatment was required within 12 hours, but care could have been provided effectively and safely in a primary care setting. The complaint did not require continuous observation, and no procedures were performed or resources used that are not available in a primary care setting (e.g., CAT scan or certain lab tests)	Acute bronchitis, Painful respiration, etc.
Emergent, ED Care Needed, Preventable/Avoidable: Emergency department care was required based on the complaint or procedures performed/resources used, but the emergent nature of the condition was potentially preventable/avoidable if timely and effective ambulatory care had been received during the episode of illness	Flare-ups of asthma, Diabetes, Congestive heart failure, etc.
Emergent, ED Care Needed, Not Preventable/Avoidable: Emergency department care was required and ambulatory care treatment could not have prevented the condition	Trauma, Appendicitis, Myocardial infarction

The first three categories are considered to be avoidable/preventable.

Type descriptions taken from <http://wagner.nyu.edu/faculty/billings/nyued-background.php>.

Appendix F: Definition of Mental Health and Substance Abuse

Mental Health	
5.1	Adjustment disorders [650]
5.2	Anxiety disorders [651]
5.3	Attention deficit conduct and disruptive behavior disorders [652]
5.3.1	Conduct disorder [6521]
5.3.2	Oppositional defiant disorder [6522]
5.3.3	Attention deficit disorder and Attention deficit hyperactivity disorder [6523]
5.4	Delirium dementia and amnesic and other cognitive disorders [653]
5.5	Developmental disorders [654]
5.5.1	Communication disorders [6541]
5.5.2	Developmental disabilities [6542]
5.5.3	Intellectual disabilities [6543]
5.5.4	Learning disorders [6544]
5.5.5	Motor skill disorders [6545]
5.6	Disorders usually diagnosed in infancy childhood or adolescence [655]
5.6.1	Elimination disorders [6551]
5.6.2	Other disorders of infancy childhood or adolescence [6552]
5.6.3	Pervasive developmental disorders [6553]
5.6.4	Tic disorders [6554]
5.7	Impulse control disorders not elsewhere classified [656]
5.8	Mood disorders [657]
5.8.1	Bipolar disorders [6571]
5.8.2	Depressive disorders [6572]
5.9	Personality disorders [658]
5.10	Schizophrenia and other psychotic disorders [659]
5.13	Suicide and intentional self-inflicted injury [662]
5.14.1	Codes related to mental health disorders [6631]
5.15	Miscellaneous mental disorders [670]
5.15.1	Dissociative disorders [6701]
5.15.2	Eating disorders [6702]
5.15.3	Factitious disorders [6703]
5.15.4	Psychogenic disorders [6704]
5.15.5	Sexual and gender identity disorders [6705]
5.15.6	Sleep disorders [6706]
5.15.7	Somatoform disorders [6707]
5.15.8	Mental disorders due to general medical conditions not elsewhere classified [6708]
5.15.9	Other miscellaneous mental conditions [6709]
Substance Abuse	
5.11	Alcohol-related disorders [660]
5.12	Substance-related disorders [661]
5.14.2	Codes related to substance-related disorders [6632]



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