



**Hospital Outcomes Program
Year Two
Report to the Pennsylvania General Assembly
March 1, 2021**

**Commonwealth of
Pennsylvania Department of Human Services**



pennsylvania
DEPARTMENT OF HUMAN SERVICES

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Introduction and Background

The Act of June 22, 2018 (P.L. 258, No. 40) (Act 40) contained provisions, hereinafter, referred to as the Health Care Outcomes provisions¹, that required the Department of Human Services (Department) to establish Medicaid outcomes-based programs within the Commonwealth's Medical Assistance (MA) program to provide hospitals and MA managed care organizations (MCOs) with information to reduce potentially avoidable events (PAEs) and further increase efficiency in Medicaid hospital services.

The Health Care Outcomes provisions define PAEs, as consisting of the following:

- Potentially avoidable readmissions (PAR).
- Potentially avoidable admissions (PAA).
- Potentially avoidable complications (PAC).
- Potentially avoidable emergency visits (PAV).
- A combination of the events listed above.

This report is intended to provide an overview of the Hospital Outcomes program to the General Assembly. As this is the second year of the program, a year over year comparison is provided. This report is delivered in a detailed graphical format to allow hospitals and the Department to gain greater insight into the current findings in order to take necessary action to improve performance in the future. The findings are presented by geographical zone as defined in the Department's Physical Health (PH) HealthChoices program.

¹ 62 P.S. §§ 501-a-536-a.

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Overview of Legislative Requirements

The Health Care Outcomes provisions include several requirements. One of the requirements is for the Department to conduct an analysis of the Medicaid Program and produce a report describing how hospitals and MCOs can improve efficiency and outcomes by reducing PAEs. The Department conducted the required analysis and produced a report titled “Comprehensive Analysis Health Care Outcomes Report to the Pennsylvania General Assembly”. This report, which provides a detailed description of the legislative requirements and the methodology used to select PAEs, the results of the analysis, and recommendations, was delivered to the General Assembly on December 31, 2019. A revised report was delivered to the General Assembly on February 28, 2020. For more information regarding the Comprehensive analysis, please refer to the full report which can be found at the following location:

https://www.dhs.pa.gov/docs/Publications/Documents/Highlighted%20Reports/Health%20Care%20Outcomes_Final_20200228.pdf

A second requirement in the Health Care Outcomes provisions is that the Department provide a progress report to the General Assembly by March 1, 2020 and each March 1 thereafter. This document titled “Hospital Outcomes Program — Year Two” serves as the second year report.

The Health Care Outcomes provisions provide that the requirements of the Hospital Outcomes Program apply to all general acute care hospitals participating in the Medicaid program and specify that the PAEs to be used are PAR and PAC. As this is the second year of the analysis, a year over year comparison is included. An MCO outcomes program report is also required and will be provided as a separate report titled “Managed Care Organization Outcomes Program — Year Two.”

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Potentially Avoidable Event Methodology

The Department is required to select a clinical categorical PAE methodology that will provide performance information at both the aggregate and case level. The methodology must include risk adjustment scoring to account for patient severity of illness and the population chronic illness burden. Mercer, the Commonwealth's independent actuary who prepared this analysis, has developed the suite of clinical efficiencies which were selected as the methodology for identifying the PAE of PAR. Mercer worked under the direction of the Department to leverage the clinical efficiencies consistent with managed care rate setting to meet the requirements of the Health Care Outcomes provisions.

The methodology selected to determine PAC is consistent with the Centers for Medicare & Medicaid Services (CMS) definition related to provider preventable conditions (PPC). PPCs include both health care acquired conditions (HCAC) and other provider preventable conditions (OPPC), representing injuries or illnesses, or never events, that occurred while in the hospital.

The methodology utilized in year two of this analysis is consistent with the methodology used in year one and consistent with the methodology utilized in managed care rate setting to adjust for inpatient inefficiencies. Mercer utilizes the most current version of the applicable software. In some instances, this may result in changes to the identification of certain PAEs as code sets are retired or replaced.

Data Sources

Mercer utilized PH HealthChoices encounter data for beneficiaries served through the managed care program and fee-for-service (FFS) claims data for beneficiaries served through the FFS program. In order to align with the data utilized in the development of calendar year (CY) 2021 PH HealthChoices managed care capitation rates, the data used in this analysis includes services provided to MCO members and FFS beneficiaries for service dates January 1, 2018 through December 31, 2018. As with the 2020 PAE analysis, data utilized for the PAE analysis include inpatient services.

Mercer recommended that the Community HealthChoices (CHC) program, the Medicaid long-term care managed care program, be excluded from the evaluation of inpatient efficiencies for CY 2018 due to the newness of the program. CY 2018 was the first year of the CHC program. Additionally, CHC was only operational in the Southwest zone in CY 2018 due to the phased-in approach, which brought the Southeast into CHC on January 1, 2019 and the remainder of the Commonwealth into CHC on January 1, 2020.

The following should be considered when reviewing the results of the analysis:

1. All data considered in this analysis was submitted by either FFS providers or PH HealthChoices MCOs through PROMISe™. No adjustments were made to account for misreporting or underreporting of data.
2. Identified PAEs and associated dollars within Mercer's analyses are not intended to express an opinion on the medical necessity of an event or imply a particular event is avoidable in a particular instance. Instead, the analysis serves to identify and quantify opportunities for improvement, which may exist within the Medicaid delivery system.
3. Costs associated with PAEs are displayed in total prior to adjustments applied as part of the managed care rate setting process.
4. Hospitals included in the analysis are identified using a list of general acute care hospitals provided by the Department to Mercer, and are included in Appendix H.
5. The PAC analysis is specific to inpatient facilities and does not consider long-term care facilities.
6. FFS claims data includes beneficiaries who received services through the FFS delivery system during CY 2018 and exclude members who are dually eligible (eligible for both Medicare and Medicaid).
7. The Department grouped results for the MA hospitals by PH HealthChoices zone.



Medically necessary treatment and services are services or supplies that are needed to diagnose or treat a patient's condition, disease, or its symptoms. A condition that is medically necessary can also be potentially avoidable. See 55 Pa. Code § 1101.21.

Example: If an individual with a history of asthma is admitted to a hospital because of intense shortness of breath and bluish lips, the admission is likely medically necessary. If the individual had received appropriate medication and evidence-based treatment in an outpatient setting, the asthma symptoms may not have progressed to the point at which the individual needed to be hospitalized. In other words, the admission was potentially avoidable even though it may have been medically necessary.

Potentially Avoidable Event Process

Each PAE is identified following an established process that is described below.

Potentially Avoidable Readmissions (PARs)

PARs are return hospitalizations within a 30-day period that may have resulted from a deficiency in the care or treatment provided to the beneficiary during a previous hospital stay or from a deficiency in post-hospital discharge follow up. The readmission analysis for both FFS and

managed care considers all hospital readmissions within 30 days of a previous discharge for the same beneficiary at any facility and any diagnosis-related group. Mercer applied exclusionary criteria for certain conditions referred to as clinical global exclusions (e.g., indications of trauma, cancer, burns, HIV/AIDS). These clinical global exclusions are made for conditions and situations that may require more complex treatment for beneficiaries. Any beneficiary identified as having a clinical global exclusion is excluded from PAR analyses.

After clinical global exclusions are considered, Mercer clinicians review all remaining readmissions to determine if the readmission should be considered potentially avoidable. Readmissions are not considered potentially avoidable when:

- Readmissions are for conditions unrelated to the previous admission.
- Beneficiaries chose to leave against medical advice.
- Beneficiaries were three years of age and under or 85 years of age and older.
- There is evidence of transition of care as reflected by the presence of a claim for a visit to a primary care provider, specialist, or a clinic such as a federally qualified health center after the hospital discharge and prior to the readmission.
- Beneficiaries were discharged due to death or placement into hospice.

Potentially Avoidable Complications (PACs)

PACs are harmful events or negative outcomes, including an infection or surgical complication, which occur after the beneficiary's admission to a hospital or may have resulted from the care, lack of care, or treatment provided during the hospital stay, rather than from a natural progression of an underlying illness.

The complications analysis is consistent with the conditions defined as PPCs by CMS and includes both HCACs and OPPCs. CMS has published a list of HCACs and their specifications, which is available on the CMS website.²

² CMS.Gov, ICD-10 HAC List, available at: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/HospitalAcqCond/icd10_hacs.html

HCACs are medical complications or conditions that were not present when the patient was admitted to the hospital and develop during the hospitalization. Examples of HCACs include hospital acquired infections and injuries due to falls. If the condition was present when the individual was admitted to the hospital, it is considered present on admission (POA). When the condition is POA it is not considered a HCAC.

Federal law, as well as the Department's policy, precludes payment for HCACs. The Department has evaluated its policy and surveyed its PH-MCOs and determined that processes are in place and effective to prevent payment to providers related to HCACs. The Department has concluded that there is no cost to MA related to PPCs. Therefore, this analysis includes an examination of the numbers and types of PPCs as an indicator of the quality of care provided by hospitals. However, the analysis does not include a process to evaluate cost.

In addition to not paying for HCACs, federal law precludes Medicaid programs from paying for the following OPPCs, which are also referred to as "Never-events"³.

- Wrong surgical or other invasive procedure performed on a patient.
- Surgical or other invasive procedure performed on the wrong body part.
- Surgical or other invasive procedure performed on the wrong patient.

No utilization related to OPPCs was identified in the PH HealthChoices MCO or FFS utilization data; therefore, no further analysis regarding OPPCs is included in this analysis.

Zone Criteria

For purposes of this analysis, the results are calculated on a statewide basis and by geographical zone as defined in the Department's PH HealthChoices program. Hospital results are assigned to a geographical zone based on the physical location of the hospital based on county.

Each zone will reflect its own unique member and hospital composition as well as a rural and urban mix. All results should be reviewed in consideration of these potential zone variations (i.e., there may be more PAEs identified as a proportion of overall admits/visits based on geography).

³ Medicaid.gov. (nd). Provider Preventable Conditions.[online] available at: <https://www.medicaid.gov/medicaid/finance/provider-preventable-conditions/index.html>

Risk Adjustment

The Health Care Outcomes provisions require risk adjustment scoring to account for severity of illness and population chronic illness burden. To account for the acuity differences inherent in the data, Mercer calculated the acuity utilizing all patient refined diagnosis related groups (APR-DRG) relative value weights from the inpatient encounter and claims data. These acuity factors were not directly applied within the results but are, instead, intended to inform the overall acuity level of the events being analyzed. The risk-adjustment approach for each PAE is as follows:

1. **PAR** — An average all patient refined diagnosis related groups (APR-DRG) relative value weight (case mix index or CMI) was calculated by hospital for all admissions. APR-DRGs classify patients according to their reason of admission. Each APR-DRG is assigned a value weight for severity of illness and risk of mortality. The CMI is calculated by aggregating all assigned value weights and dividing by the number of admissions.
2. **PAC** — Because PACs were not paid for in the Medicaid program, no risk-adjustment analysis was performed.

4 Hospital Results

An evaluation of the year two data suggests opportunities exist to improve the efficiency of how care and services are delivered.

The accompanying information is provided in graphical format by geographical zone to assist the Department and hospitals in the identification of opportunities to develop interventions that will improve patient care and decrease avoidable cost.

The table and figure below display the statewide results of the PAEs applicable to Hospitals, including PAR and PAC.

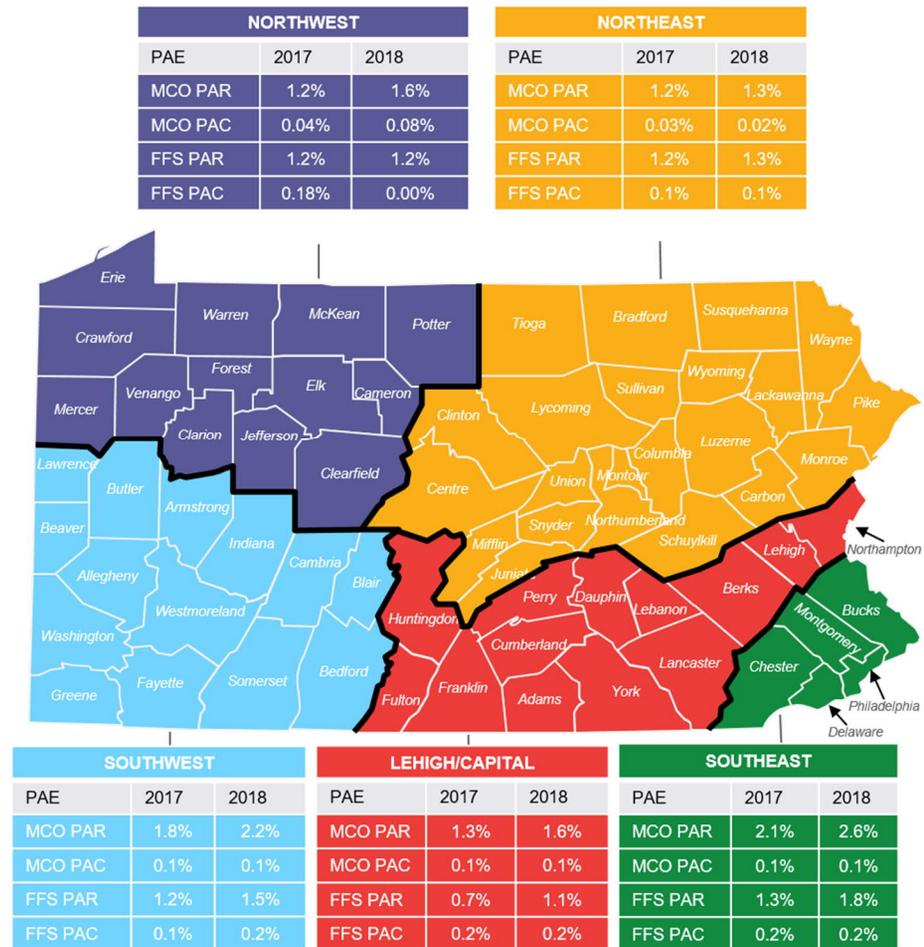
Table 1 — Hospital results for PAEs and Cost for both MCO and FFS Beneficiaries

| Description of PAEs | Number of PAEs | Number of PAEs | % of Admits | % of Admits | Cost Associated With PAEs* | Cost Associated With PAEs* | % of Inpatient Cost | % of Inpatient Cost |
|-----------------------------------|----------------|----------------|-------------|-------------|----------------------------|----------------------------|---------------------|---------------------|
| | CY 2017 | CY 2018 | CY 2017 | CY 2018 | CY 2017 | CY 2018 | CY 2017 | CY 2018 |
| Medicaid MCO Beneficiaries | | | | | | | | |
| PAR | 4,396 | 5,143 | 1.7% | 2.1% | \$40,913,360 | \$52,628,726 | 1.8% | 2.3% |
| PAC | 238 | 204 | 0.1% | 0.1% | \$0 | \$0 | 0.0% | 0.0% |
| Medicaid FFS Beneficiaries | | | | | | | | |
| PAR | 402 | 545 | 1.1% | 1.5% | \$7,671,409 | \$8,692,523 | 1.8% | 2.0% |
| PAC | 53 | 62 | 0.1% | 0.2% | \$0 | \$0 | 0.0% | 0.0% |
| Total | 5,089 | 5,954 | 1.8% | 2.1% | \$48,584,769 | \$61,321,249 | 1.8% | 2.3% |

* Costs in the table may differ from results provided directly to the MCOs as part of rate setting, as costs associated with PAEs are displayed prior to replacement costs and/or other adjustments.

PAR cost amounts are separate from any recoupment activities that may have occurred by either the MCOs or through the FFS program.

Figure 1 — PAE (as a percent of total admits) Hospital results by PH HealthChoices program zone



- PAR – Potentially Avoidable Readmission
- PAC – Potentially Avoidable Complications

Overall, the cost of PAEs has increased from \$48.6 million to \$61.3 million. This overall increase in potentially avoidable cost includes both costs associated with MCO beneficiaries and those served through the FFS system.

MCO Beneficiary Results

PARs as a percent of admissions has increased from 1.7% to 2.1% for MCO beneficiaries. The cost associated with potentially avoidable readmissions increased from approximately \$40.9 million to \$52.6 million. The statewide Hospital Case Mix Index for MCO beneficiaries increased from 1.021 to 1.072 (approximately 5%) indicating an overall statewide increase in patient acuity which may be contributing to the increase in cost.

Table 2 below displays the 20 most frequent APR-DRGs for PARs. In addition, a comparison to the prior year is displayed including the percentage change in both occurrence and identified cost.

The largest increase in the number of PARs occurred in the following APR-DRGs:

- SEPTICEMIA & DISSEMINATED INFECTIONS
- DIABETES
- SICKLE CELL ANEMIA CRISIS
- ALCOHOLIC LIVER DISEASE

The following APR-DRGs had a decrease in occurrence:

- SEIZURE
- ACUTE KIDNEY INJURY
- CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS

Table 2 – PAR by APR-DRG MCO Beneficiaries

| APR-DRG Number | APR-DRG Description | Number of PAEs | Number of PAEs | PAE % Change | Cost Associated With PAEs | Cost Associated With PAEs | Cost % Change |
|----------------|---|----------------|----------------|--------------|---------------------------|---------------------------|---------------|
| | | CY 2017 | CY 2018 | | CY 2017 | CY 2018 | |
| 420 | DIABETES | 327 | 372 | 14% | \$1,954,514 | \$2,340,504 | 20% |
| 662 | SICKLE CELL ANEMIA CRISIS | 319 | 360 | 13% | \$2,104,270 | \$2,547,882 | 21% |
| 720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 163 | 214 | 31% | \$2,320,159 | \$3,197,444 | 38% |
| 140 | CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 204 | 207 | 1% | \$1,554,694 | \$1,764,696 | 14% |
| 194 | HEART FAILURE | 162 | 197 | 22% | \$1,948,076 | \$2,164,721 | 11% |
| 775 | ALCOHOL ABUSE & DEPENDENCE | 179 | 183 | 2% | \$806,994 | \$795,839 | -1% |
| 282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 144 | 149 | 3% | \$1,029,319 | \$1,183,157 | 15% |
| 383 | CELLULITIS & OTHER SKIN INFECTIONS | 128 | 128 | 0% | \$929,670 | \$1,188,656 | 28% |
| 280 | ALCOHOLIC LIVER DISEASE | 69 | 109 | 58% | \$761,028 | \$1,306,135 | 72% |
| 141 | ASTHMA | 86 | 101 | 17% | \$475,205 | \$705,210 | 48% |
| 469 | ACUTE KIDNEY INJURY | 95 | 90 | -5% | \$1,023,679 | \$962,318 | -6% |
| 139 | OTHER PNEUMONIA | 64 | 88 | 38% | \$668,655 | \$1,425,686 | 113% |
| 425 | OTHER NON-HYPOVOLEMIC ELECTROLYTE DISORDERS | 48 | 85 | 77% | \$469,591 | \$608,469 | 30% |
| 254 | OTHER DIGESTIVE SYSTEM DIAGNOSES | 47 | 72 | 53% | \$419,819 | \$656,165 | 56% |
| 816 | TOXIC EFFECTS OF NON-MEDICINAL SUBSTANCES | 44 | 65 | 48% | \$352,094 | \$397,333 | 13% |
| 133 | RESPIRATORY FAILURE | 52 | 60 | 15% | \$760,848 | \$808,010 | 6% |

| APR-DRG Number | APR-DRG Description | Number of PAEs | Number of PAEs | PAE % Change | Cost Associated With PAEs | Cost Associated With PAEs | Cost % Change |
|----------------|---|----------------|----------------|--------------|---------------------------|---------------------------|---------------|
| | | CY 2017 | CY 2018 | | CY 2017 | CY 2018 | |
| 201 | CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS | 55 | 54 | -2% | \$357,868 | \$712,027 | 99% |
| 241 | PEPTIC ULCER & GASTRITIS | 41 | 54 | 32% | \$261,798 | \$428,264 | 64% |
| 253 | OTHER & UNSPECIFIED GASTROINTESTINAL HEMORRHAGE | 20 | 54 | 170% | \$247,613 | \$745,559 | 201% |
| 53 | SEIZURE | 67 | 53 | -21% | \$387,280 | \$534,560 | 38% |

PACs decreased from 238 to 204 for MCO beneficiaries.

FFS Beneficiary Results

PARs as a percent of admissions has increased from 1.1% to 1.5% for those served through the FFS system. The cost associated with PARs increased from approximately \$7.7 million to \$8.7 million. The statewide FFS Case Mix Index decreased slightly from 2017 (1.414) to 2018 (1.402) indicating overall consistent patient acuity.

Table 3 below displays the 20 most frequent APR-DRGs for PARs. In addition, a comparison to the prior year is displayed including the percentage change in both occurrence and identified cost.

The largest increase in the number of PARs occurred in the following APR-DRGs:

- ACUTE MYOCARDIAL INFARCTION
- SEPTICEMIA & DISSEMINATED INFECTIONS
- ALCOHOLIC LIVER DISEASE
- CVA & PRECEREBRAL OCCLUSION W INFARCT

The following APR-DRGs had a decrease in occurrence:

- CHRONIC OBSTRUCTIVE PULMONARY DISEASE
- PERCUTANEOUS CORONARY INTERVENTION W AMI
- ACUTE KIDNEY INJURY
- DIABETES

Table 3 — PAR by APR-DRG FFS Beneficiaries

| APR-DRG Number | APR-DRG Description | Number of PAEs | Number of PAEs | PAE % Change | Cost Associated With PAEs | Cost Associated With PAEs | Cost % Change |
|----------------|--|----------------|----------------|--------------|---------------------------|---------------------------|---------------|
| | | CY 2017 | CY 2018 | | CY 2017 | CY 2018 | |
| 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 41 | 53 | 29% | \$1,280,378 | \$1,291,583 | 1% |
| 0194 | HEART FAILURE | 19 | 29 | 53% | \$242,449 | \$537,983 | 122% |
| 0192 | CARDIAC CATHETERIZATION FOR OTHER NON-CORONARY CONDITIONS | 8 | 18 | 125% | \$173,661 | \$308,666 | 78% |
| 0280 | ALCOHOLIC LIVER DISEASE | 7 | 18 | 157% | \$58,190 | \$317,604 | 446% |
| 0190 | ACUTE MYOCARDIAL INFARCTION | 2 | 17 | 750% | \$20,192 | \$346,146 | 1614% |
| 0775 | ALCOHOL ABUSE & DEPENDENCE | 14 | 17 | 21% | \$53,955 | \$71,722 | 33% |
| 0045 | CVA & PRECEREBRAL OCCLUSION W INFARCT | 5 | 16 | 220% | \$53,149 | \$206,239 | 288% |
| 0282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 11 | 16 | 45% | \$92,618 | \$152,908 | 65% |
| 0140 | CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 15 | 13 | -13% | \$235,497 | \$331,123 | 41% |
| 0420 | DIABETES | 14 | 13 | -7% | \$121,306 | \$126,111 | 4% |
| 0710 | INFECTIOUS & PARASITIC DISEASES INCLUDING HIV W O.R. PROCEDURE | 11 | 12 | 9% | \$223,973 | \$131,393 | -41% |
| 0133 | RESPIRATORY FAILURE | 11 | 11 | 0% | \$119,712 | \$132,790 | 11% |

| APR-DRG Number | APR-DRG Description | Number of PAEs | Number of PAEs | PAE % Change | Cost Associated With PAEs | Cost Associated With PAEs | Cost % Change |
|----------------|--|----------------|----------------|--------------|---------------------------|---------------------------|---------------|
| | | CY 2017 | CY 2018 | | CY 2017 | CY 2018 | |
| 0279 | HEPATIC COMA & OTHER MAJOR ACUTE LIVER DISORDERS | 4 | 10 | 150% | \$39,243 | \$112,549 | 187% |
| 0662 | SICKLE CELL ANEMIA CRISIS | 6 | 10 | 67% | \$43,321 | \$58,156 | 34% |
| 0139 | OTHER PNEUMONIA | 6 | 9 | 50% | \$97,673 | \$114,561 | 17% |
| 0174 | PERCUTANEOUS CORONARY INTERVENTION W AMI | 11 | 9 | -18% | \$405,055 | \$141,479 | -65% |
| 0283 | OTHER DISORDERS OF THE LIVER | 0 | 8 | 0% | \$- | \$167,599 | 0% |
| 0383 | CELLULITIS & OTHER SKIN INFECTIONS | 4 | 8 | 100% | \$22,227 | \$130,026 | 485% |
| 0469 | ACUTE KIDNEY INJURY | 10 | 8 | -20% | \$73,694 | \$81,020 | 10% |
| 0816 | TOXIC EFFECTS OF NON-MEDICINAL SUBSTANCES | 1 | 8 | 700% | \$7,677 | \$68,201 | 788% |

PACs increased from 53 to 62 for FFS beneficiaries. This represents fairly consistent performance in CY 2018 as compared to CY 2017.

Overall

The Department's efficiency adjustments, which are part of the PH HealthChoices rate-setting process, took into account the \$52.6 million of PARs for MCO beneficiaries.

In order to provide the data in a format that will provide the most descriptive information the year two results are graphically displayed by PAE and by zone in Appendices A–D. Appendices A–B relate to beneficiaries enrolled in MCOs while appendices C–D relate to beneficiaries served in the FFS program.

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Next Steps

The analyses included in this report address the requirements of Health Care Outcomes provisions regarding development of a Hospital Outcomes Program. The hospital level analyses will be completed and ready for distribution to each hospital in the second calendar quarter of 2021. A template of the analysis that will be provided to each hospital is included as Appendices F and G.

In order to identify opportunities for the hospitals to reduce PAEs, the Department is focusing on the following efforts. In addition, the Department released the 2019–2022 Strategic Plan⁴ and continues to strengthen the strategies included in the document through the efforts below:

1. In the FFS delivery system, the Department revised its payment policy for readmissions for the same beneficiaries for the same facility, which is provided in Medical Assistance Bulletin 01-11-44 — Revised Payment Policy for Hospital Readmissions. It establishes the Department’s payment policy for readmissions as below:
 - A. If the readmission is for the treatment of conditions that could or should have been treated during the previous admission, the Department shall make no payment in addition to the hospital’s original DRG payment. If the combined hospital stay qualifies as an outlier, an outlier payment shall be made.
 - B. If the readmission is due to complications of the original diagnosis and the result is a different DRG with a higher payment, the Department shall pay the higher DRG payment rather than the original DRG payment.
 - C. If the readmission is due to conditions unrelated to the previous admission, the Department shall consider the readmission as a new admission for payment purposes.

⁴ Pennsylvania Department of Human Services Strategic Plan 2019-2020 available at https://gallery.mailchimp.com/9f338c73cbc65f9e26e410ea8/files/121f9231-527b-4e99-8293-c94452277c50/Department_of_Human_Services_Strategic_Plan.pdf

2. The Department's Bureau of Program Integrity continues its efforts to identify inappropriate admissions and readmissions in the FFS program. If the inpatient admissions are deemed to be related for the same provider, the provider is notified and payment may be adjusted or recouped. MCOs are responsible for the review of admissions and readmissions of their members. The MCOs establish their own readmission payment policy. Mercer reviews inpatient readmission encounters for annual efficiency adjustments as part of PH HealthChoices rate setting. The Department has increased the amount of rate reduction applied for these inefficiencies to encourage the MCOs to reduce the number of PARs in future rate setting years.
3. As part of the strategy, MA providers, including hospitals, are encouraged to focus on Social Determinates of Health (SDOH) which include elements such as access to food, access to health services, education and employment, environmental conditions, income, housing, and relationships, among others are considered responsible for approximately 80 percent of a person's health outcomes. The focus on improvement of SDOH addresses the whole person's health rather than focusing on specific body systems, diagnoses or conditions, and to reduce health disparities based on age, race, ethnicity, sex, primary language and disability status. Through SDOH, the Department will explore the opportunities to reduce health care costs including PAEs.
4. The Department administers the Hospital Quality Incentive Program (HQIP) which awards inpatient acute care hospitals serving Medical Assistance beneficiaries for reducing potentially avoidable admissions which includes readmission as well. Results for CY 2019 of HQIP show 133 out of 168 eligible hospitals achieved reduction in preventable admission rates when compared to the initial year of the program. The information on the program is available at <https://www.dhs.pa.gov/providers/Providers/Pages/Hospital-Assessment-Initiative-.aspx>. The Department is aligning the methodology for this HQIP with the methodology of the Health Care Outcomes reporting beginning with CY2022 hospital performance.
5. The Department is fostering collaboration between hospitals and MCOs through five Regional Accountable Health Councils (RAHCs) across the state. RAHCs are required to collectively develop regional transformation plans with a focus on the regional community needs assessments to reduce racial health disparities, address SDOH, and align value-based purchasing arrangements. The RAHCs provide the opportunity for the MCOs and hospitals to develop strategies to reduce preventable events within each of the five regions across the state.

Appendix A

Potentially Avoidable Readmissions — MCO Beneficiaries

Contents

| Table # | Table Title |
|---------|---|
| 1 | Total Events |
| 2 | Total Dollars |
| 3 | APR-DRG Case Mix Index |
| 4 | Events and Dollars by Age Band and Gender |
| 5 | Events and Dollars by Top 10 APR-DRG |

The tables identified above are included for each zone. Zone results are displayed in the following order: Southeast, Southwest, Lehigh/Capital, Northeast and Northwest. This is the second year of the analysis; therefore, both CY 2018 and CY 2017 results are available and displayed as applicable.

Detailed Description of Tables

Table 1 — displays the total number of PAR as a percent of total inpatient hospital admissions. This value is displayed at both the zone and statewide level.

Table 2 — displays the total expenditures related to PAR as a percent of total inpatient hospital expenditures. This value is displayed at both the zone and statewide level.

Table 3 — displays the average APR-DRG Case Mix Index for those admissions identified as PARs at the zone and statewide level.⁵ Also displays the APR-DRG average Case Mix Index for all admissions at the zone and statewide level.

Table 4 — displays the total number of PAR as a percent of total inpatient hospital admissions by age band and gender. These values are displayed at both the zone and statewide level.

Table 5 — displays the 10 most frequent diagnosis (APR-DRG) in the zone that result in PAR within the zone. These values are displayed at both the zone and statewide level.

Additional Notes Regarding Data

1. Admits and Dollars for CY 2018 service dates are based on PH-MCO encounter data submitted through September 30, 2019.
2. Inpatient is defined as acute inpatient hospital admissions.
3. APR-DRGs are assigned by PROMISe system and represent a mix of APR-DRG versions 35 and 36 depending on discharge date. Case Mix Index reflects the average APR-DRG relative value weight of all admissions. If APR-DRG relative value weight was not present on the claim, an average relative value weight was assigned. These average relative value weights were calculated at the hospital level.
4. There are always at least two admissions related to a PAR. The first admission is referred to as the “anchor admission”. When the beneficiary is discharged and admitted again within 30 days, the subsequent admission is referred to as a “readmission”. The PAR APR-DRG is assigned based on the anchor admission.
5. Replacement costs, which are the costs that would have been incurred to care for the beneficiary in an appropriate setting, are not considered in this analysis.

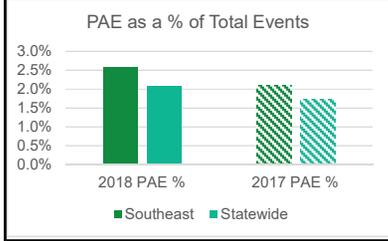
⁵ APR-DRGs classify patients according to their reason of admission. Each APR-DRG is assigned a value weight for severity of illness and risk of mortality. The Case Mix Index is calculated by aggregating all assigned value weights and dividing by the number of admissions.

6. Age and gender are assigned using eligibility files provided by the Department.
7. Encounters with revenue code 0762 and no room and board code, indicating an observation stay, were excluded from PAR analysis.
8. Readmissions are defined as inpatient hospital admissions within 30 days of an admission for the same beneficiary with any DRG at any facility. Not all readmissions within 30 days are considered potentially avoidable. Therefore, Mercer clinicians review readmissions (line by line) to determine if the readmission should be considered potentially avoidable. An admission is not considered potentially avoidable when:
 - A. Beneficiary has a qualifying clinical global exclusion diagnosis (examples include trauma and malignancies).
 - B. Beneficiary is three years of age and under or 85 years of age and older.
 - C. Beneficiary has a qualifying outpatient encounter between admissions.
 - D. Beneficiary was discharged due to death or to hospice.
9. Beneficiaries eligible for Community HealthChoices are excluded from analysis.
10. PAR values displayed are post clinical global exclusions and clinical review (as described in #8 above). Targeted efficiency levels are not applied.

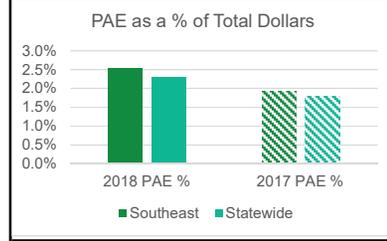
Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southeast |

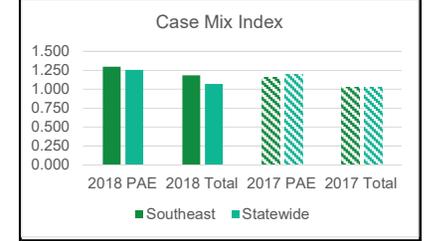
| 1. Total Events | | |
|-------------------|-------------|-------------|
| | Southeast | Statewide |
| PAE | 2,330 | 5,143 |
| Total | 90,275 | 247,238 |
| 2018 PAE % | 2.6% | 2.1% |
| 2017 PAE % | 2.1% | 1.7% |



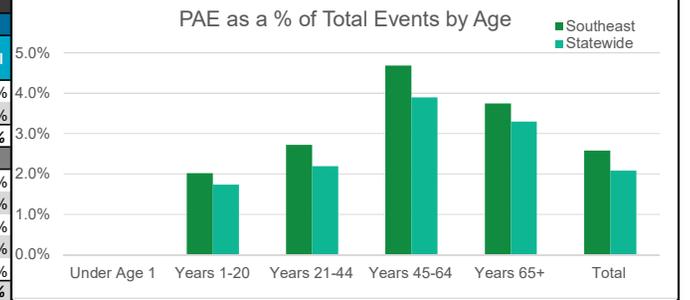
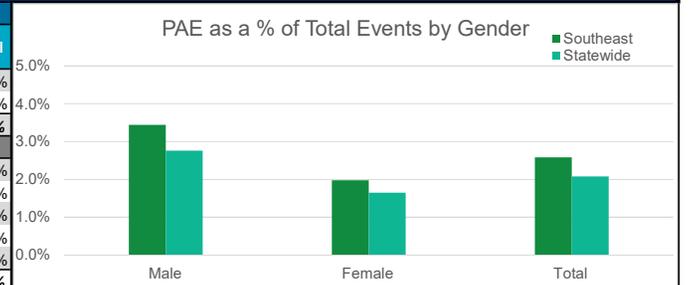
| 2. Total Dollars | | |
|-------------------|----------------|------------------|
| | Southeast | Statewide |
| PAE | \$ 23,927,978 | \$ 52,628,726 |
| Total | \$ 942,741,722 | \$ 2,279,465,581 |
| 2018 PAE % | 2.5% | 2.3% |
| 2017 PAE % | 1.9% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|-----------|-----------|
| | Southeast | Statewide |
| 2018 PAE | 1.295 | 1.256 |
| 2018 Total | 1.186 | 1.072 |
| 2017 PAE | 1.156 | 1.197 |
| 2017 Total | 1.030 | 1.021 |



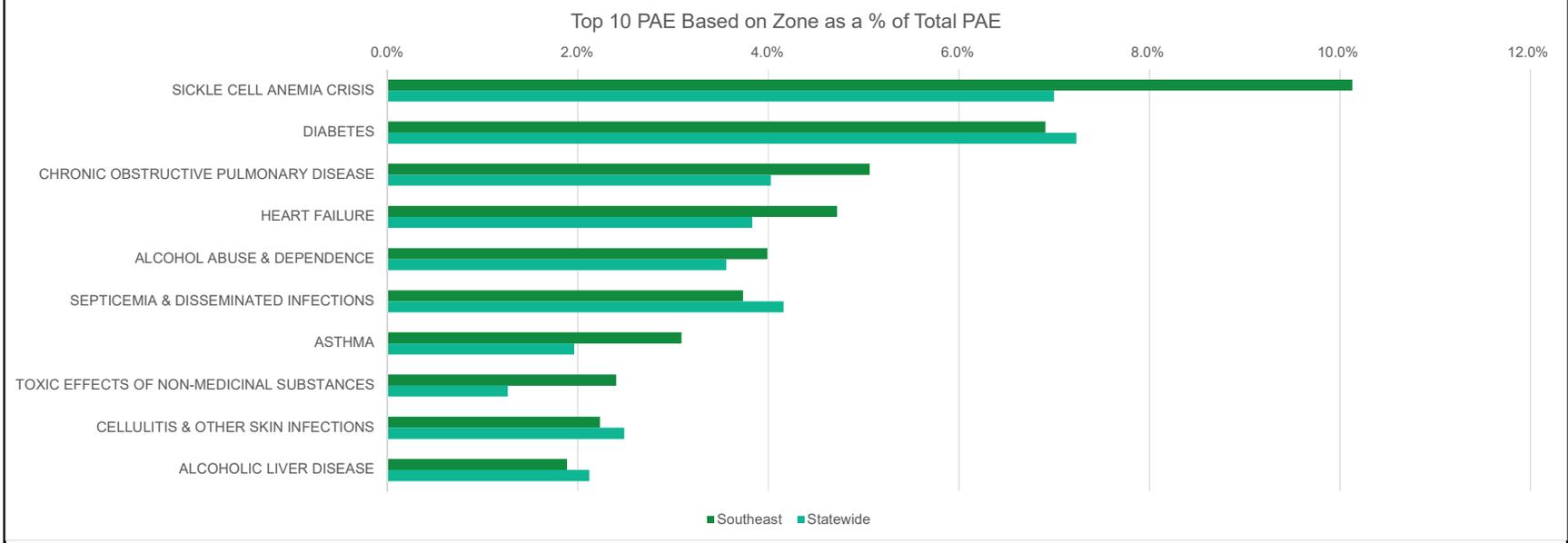
| 4. Events and Dollars by Age Band and Gender | | | | | | | | | |
|--|--------|----------------|--------------|-----------------|-----------------|-------------------------|----------------------|-----------------|-----------------|
| Southeast | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 36,997 | 1,275 | 3.4% | 2.8% | \$ 462,188,248 | \$ 12,466,083 | 2.7% | 2.1% |
| All Ages | Female | 53,278 | 1,055 | 2.0% | 1.6% | \$ 480,553,474 | \$ 11,461,895 | 2.4% | 1.8% |
| Total | | 90,275 | 2,330 | 2.6% | 2.1% | \$ 942,741,722 | \$ 23,927,978 | 2.5% | 1.9% |
| Under Age 1 | | 18,588 | - | 0.0% | 0.0% | \$ 190,536,367 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 12,798 | 259 | 2.0% | 1.8% | \$ 153,275,917 | \$ 3,762,102 | 2.5% | 2.1% |
| Years 21-44 | | 34,757 | 946 | 2.7% | 2.4% | \$ 280,681,534 | \$ 8,088,797 | 2.9% | 2.3% |
| Years 45-64 | | 23,545 | 1,103 | 4.7% | 3.4% | \$ 309,460,562 | \$ 11,920,457 | 3.9% | 2.7% |
| Years 65+ | | 587 | 22 | 3.7% | 2.9% | \$ 8,787,342 | \$ 156,623 | 1.8% | 2.2% |
| Total | | 90,275 | 2,330 | 2.6% | 2.1% | \$ 942,741,722 | \$ 23,927,978 | 2.5% | 1.9% |
| Statewide | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 95,706 | 2,644 | 2.8% | 2.3% | \$ 1,068,757,555 | \$ 26,282,416 | 2.5% | 1.9% |
| All Ages | Female | 151,532 | 2,499 | 1.6% | 1.4% | \$ 1,210,708,027 | \$ 26,346,310 | 2.2% | 1.7% |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% |
| Under Age 1 | | 56,271 | - | 0.0% | 0.0% | \$ 416,775,100 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 31,880 | 553 | 1.7% | 1.6% | \$ 348,207,415 | \$ 8,283,320 | 2.4% | 1.7% |
| Years 21-44 | | 93,810 | 2,057 | 2.2% | 1.9% | \$ 697,679,912 | \$ 17,939,292 | 2.6% | 2.2% |
| Years 45-64 | | 64,032 | 2,492 | 3.9% | 3.0% | \$ 800,014,783 | \$ 26,087,859 | 3.3% | 2.4% |
| Years 65+ | | 1,245 | 41 | 3.3% | 2.8% | \$ 16,788,372 | \$ 318,254 | 1.9% | 1.9% |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% |



Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southeast |

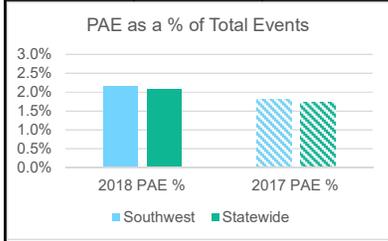
| Top 10 PAE by Zone | | | Southeast | | | | Statewide | | | |
|--------------------|---------|---|--------------|----------------------|---------------------|---------------------|--------------|----------------------|---------------------|---------------------|
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0662 | SICKLE CELL ANEMIA CRISIS | 236 | \$ 1,814,039 | 10.1% | 12.5% | 360 | \$ 2,547,882 | 7.0% | 7.3% |
| 2 | 0420 | DIABETES | 161 | \$ 1,040,441 | 6.9% | 6.3% | 372 | \$ 2,340,504 | 7.2% | 7.4% |
| 3 | 0140 | CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 118 | \$ 1,005,025 | 5.1% | 4.9% | 207 | \$ 1,764,696 | 4.0% | 4.6% |
| 4 | 0194 | HEART FAILURE | 110 | \$ 1,401,453 | 4.7% | 4.6% | 197 | \$ 2,164,721 | 3.8% | 3.7% |
| 5 | 0775 | ALCOHOL ABUSE & DEPENDENCE | 93 | \$ 418,446 | 4.0% | 3.4% | 183 | \$ 795,839 | 3.6% | 4.1% |
| 6 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 87 | \$ 1,299,123 | 3.7% | 3.2% | 214 | \$ 3,197,444 | 4.2% | 3.7% |
| 7 | 0141 | ASTHMA | 72 | \$ 518,064 | 3.1% | 3.0% | 101 | \$ 705,210 | 2.0% | 2.0% |
| 8 | 0816 | TOXIC EFFECTS OF NON-MEDICINAL SUBSTANCES | 56 | \$ 318,587 | 2.4% | 1.7% | 65 | \$ 397,333 | 1.3% | 1.0% |
| 9 | 0383 | CELLULITIS & OTHER SKIN INFECTIONS | 52 | \$ 412,481 | 2.2% | 2.8% | 128 | \$ 1,188,656 | 2.5% | 2.9% |
| 10 | 0280 | ALCOHOLIC LIVER DISEASE | 44 | \$ 469,584 | 1.9% | 0.8% | 109 | \$ 1,306,135 | 2.1% | 1.6% |
| All Else | | | 1,301 | \$ 15,230,736 | 55.8% | 57.0% | 3,207 | \$ 36,220,307 | 62.4% | 61.8% |
| Total | | | 2,330 | \$ 23,927,978 | 100.0% | 100.0% | 5,143 | \$ 52,628,726 | 100.0% | 100.0% |



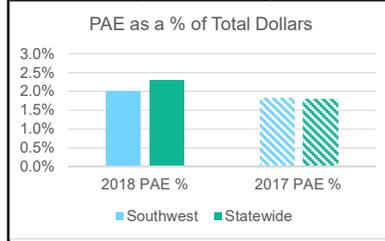
Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southwest |

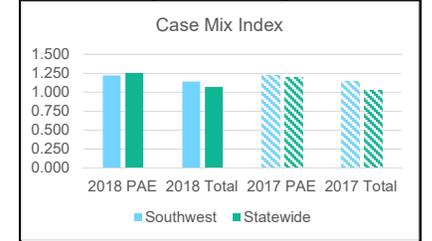
| 1. Total Events | | |
|-------------------|-------------|-------------|
| | Southwest | Statewide |
| PAE | 1,174 | 5,143 |
| Total | 54,236 | 247,238 |
| 2018 PAE % | 2.2% | 2.1% |
| 2017 PAE % | 1.8% | 1.7% |



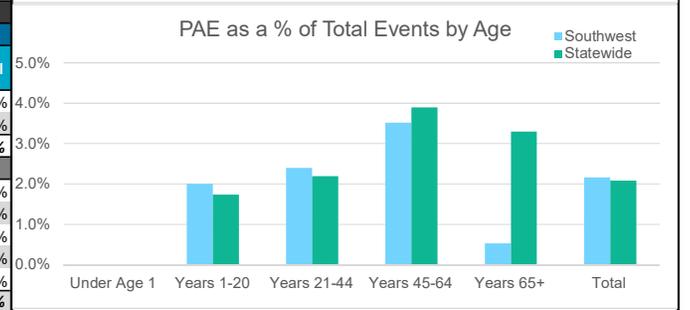
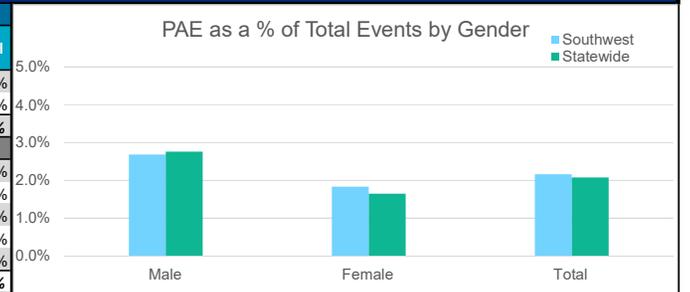
| 2. Total Dollars | | |
|-------------------|----------------|------------------|
| | Southwest | Statewide |
| PAE | \$ 10,378,949 | \$ 52,628,726 |
| Total | \$ 516,092,254 | \$ 2,279,465,581 |
| 2018 PAE % | 2.0% | 2.3% |
| 2017 PAE % | 1.8% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|-----------|-----------|
| | Southwest | Statewide |
| 2018 PAE | 1.220 | 1.256 |
| 2018 Total | 1.143 | 1.072 |
| 2017 PAE | 1.216 | 1.197 |
| 2017 Total | 1.147 | 1.021 |



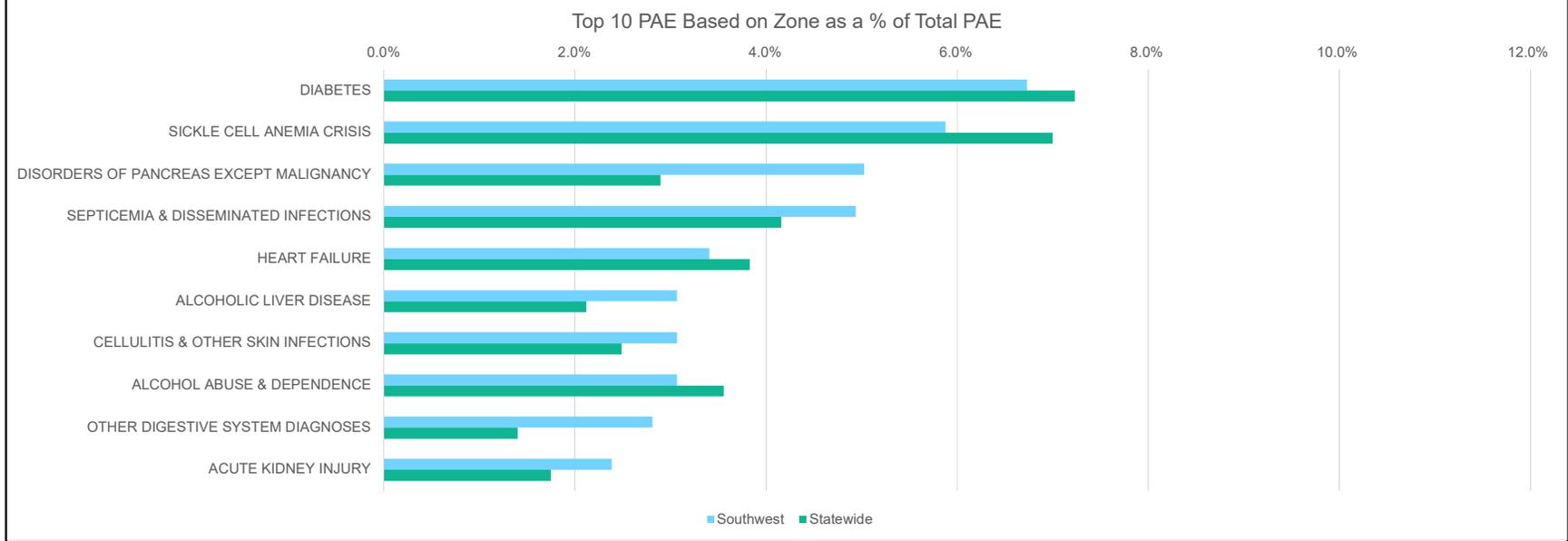
| 4. Events and Dollars by Age Band and Gender | | | | | | | | | | |
|--|--------|----------------|--------------|-----------------|-----------------|-------------------------|----------------------|-----------------|-----------------|--|
| Southwest | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 21,059 | 565 | 2.7% | 2.0% | \$ 240,950,034 | \$ 5,187,899 | 2.2% | 1.7% | |
| All Ages | Female | 33,177 | 609 | 1.8% | 1.7% | \$ 275,142,220 | \$ 5,191,050 | 1.9% | 1.9% | |
| Total | | 54,236 | 1,174 | 2.2% | 1.8% | \$ 516,092,254 | \$ 10,378,949 | 2.0% | 1.8% | |
| Under Age 1 | | 11,396 | - | 0.0% | 0.0% | \$ 84,692,594 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 6,748 | 135 | 2.0% | 1.8% | \$ 79,973,856 | \$ 1,348,024 | 1.7% | 1.7% | |
| Years 21-44 | | 20,016 | 480 | 2.4% | 2.1% | \$ 153,421,439 | \$ 3,913,470 | 2.6% | 2.3% | |
| Years 45-64 | | 15,888 | 558 | 3.5% | 2.8% | \$ 195,964,225 | \$ 5,107,976 | 2.6% | 2.3% | |
| Years 65+ | | 188 | 1 | 0.5% | 0.8% | \$ 2,040,140 | \$ 9,479 | 0.5% | 0.6% | |
| Total | | 54,236 | 1,174 | 2.2% | 1.8% | \$ 516,092,254 | \$ 10,378,949 | 2.0% | 1.8% | |
| Statewide | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 95,706 | 2,644 | 2.8% | 2.3% | \$ 1,068,757,555 | \$ 26,282,416 | 2.5% | 1.9% | |
| All Ages | Female | 151,532 | 2,499 | 1.6% | 1.4% | \$ 1,210,708,027 | \$ 26,346,310 | 2.2% | 1.7% | |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% | |
| Under Age 1 | | 56,271 | - | 0.0% | 0.0% | \$ 416,775,100 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 31,880 | 553 | 1.7% | 1.6% | \$ 348,207,415 | \$ 8,283,320 | 2.4% | 1.7% | |
| Years 21-44 | | 93,810 | 2,057 | 2.2% | 1.9% | \$ 697,679,912 | \$ 17,939,292 | 2.6% | 2.2% | |
| Years 45-64 | | 64,032 | 2,492 | 3.9% | 3.0% | \$ 800,014,783 | \$ 26,087,859 | 3.3% | 2.4% | |
| Years 65+ | | 1,245 | 41 | 3.3% | 2.8% | \$ 16,788,372 | \$ 318,254 | 1.9% | 1.9% | |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% | |



Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southwest |

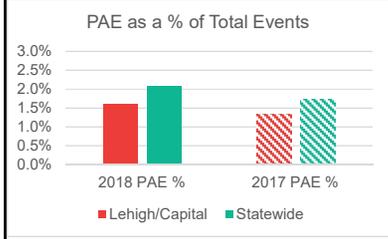
| 5. Events and Dollars by Top 10 APR-DRG | | | | | | | | | | |
|---|---------|---|--------------|----------------------|---------------------|---------------------|--------------|----------------------|---------------------|---------------------|
| Top 10 PAE by Zone | | | Southwest | | | | Statewide | | | |
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0420 | DIABETES | 79 | \$ 426,369 | 6.7% | 8.5% | 372 | \$ 2,340,504 | 7.2% | 7.4% |
| 2 | 0662 | SICKLE CELL ANEMIA CRISIS | 69 | \$ 440,531 | 5.9% | 4.7% | 360 | \$ 2,547,882 | 7.0% | 7.3% |
| 3 | 0282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 59 | \$ 365,364 | 5.0% | 5.9% | 149 | \$ 1,183,157 | 2.9% | 3.3% |
| 4 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 58 | \$ 859,753 | 4.9% | 4.0% | 214 | \$ 3,197,444 | 4.2% | 3.7% |
| 5 | 0194 | HEART FAILURE | 40 | \$ 344,272 | 3.4% | 2.9% | 197 | \$ 2,164,721 | 3.8% | 3.7% |
| 6 | 0280 | ALCOHOLIC LIVER DISEASE | 36 | \$ 411,330 | 3.1% | 2.2% | 109 | \$ 1,306,135 | 2.1% | 1.6% |
| 7 | 0383 | CELLULITIS & OTHER SKIN INFECTIONS | 36 | \$ 398,914 | 3.1% | 3.0% | 128 | \$ 1,188,656 | 2.5% | 2.9% |
| 8 | 0775 | ALCOHOL ABUSE & DEPENDENCE | 36 | \$ 125,843 | 3.1% | 4.5% | 183 | \$ 795,839 | 3.6% | 4.1% |
| 9 | 0254 | OTHER DIGESTIVE SYSTEM DIAGNOSES | 33 | \$ 333,530 | 2.8% | 1.0% | 72 | \$ 656,165 | 1.4% | 1.1% |
| 10 | 0469 | ACUTE KIDNEY INJURY | 28 | \$ 233,401 | 2.4% | 2.3% | 90 | \$ 962,318 | 1.7% | 2.2% |
| | | All Else | 700 | \$ 6,439,642 | 59.6% | 61.0% | 3,269 | \$ 36,285,905 | 63.6% | 62.9% |
| | | Total | 1,174 | \$ 10,378,949 | 100.0% | 100.0% | 5,143 | \$ 52,628,726 | 100.0% | 100.0% |



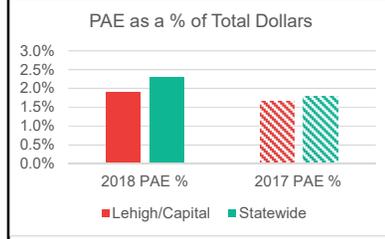
Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Lehigh/Capital |

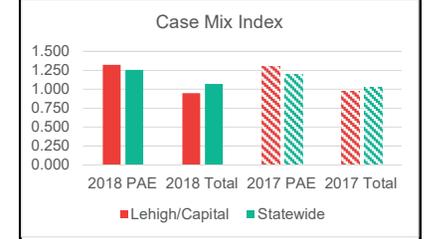
| 1. Total Events | | |
|-------------------|----------------|-------------|
| | Lehigh/Capital | Statewide |
| PAE | 823 | 5,143 |
| Total | 51,890 | 247,238 |
| 2018 PAE % | 1.6% | 2.1% |
| 2017 PAE % | 1.3% | 1.7% |



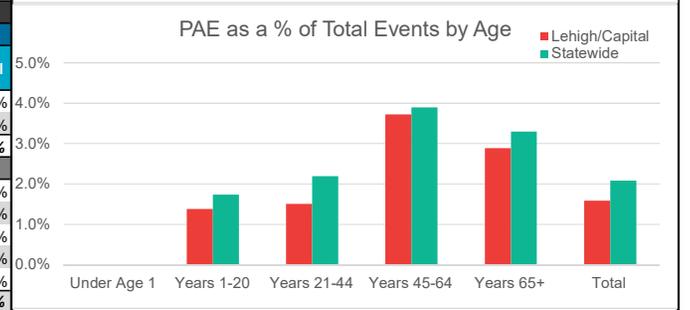
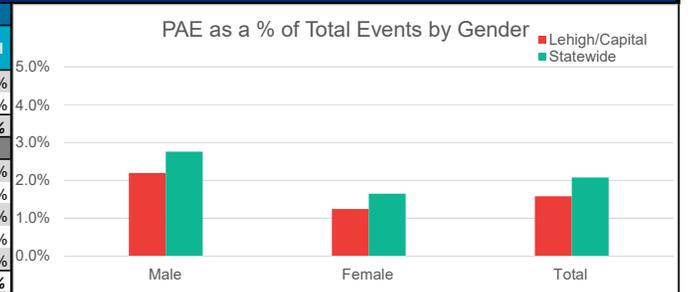
| 2. Total Dollars | | |
|-------------------|----------------|------------------|
| | Lehigh/Capital | Statewide |
| PAE | \$ 8,102,708 | \$ 52,628,726 |
| Total | \$ 426,333,114 | \$ 2,279,465,581 |
| 2018 PAE % | 1.9% | 2.3% |
| 2017 PAE % | 1.6% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|----------------|-----------|
| | Lehigh/Capital | Statewide |
| 2018 PAE | 1.323 | 1.256 |
| 2018 Total | 0.950 | 1.072 |
| 2017 PAE | 1.304 | 1.197 |
| 2017 Total | 0.978 | 1.021 |



| 4. Events and Dollars by Age Band and Gender | | | | | | | | | |
|--|--------|----------------|--------------|-----------------|-----------------|-------------------------|----------------------|-----------------|-----------------|
| Lehigh/Capital | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 18,624 | 409 | 2.2% | 1.8% | \$ 190,047,707 | \$ 4,097,475 | 2.2% | 1.9% |
| All Ages | Female | 33,266 | 414 | 1.2% | 1.1% | \$ 236,285,408 | \$ 4,005,233 | 1.7% | 1.5% |
| Total | | 51,890 | 823 | 1.6% | 1.3% | \$ 426,333,114 | \$ 8,102,708 | 1.9% | 1.6% |
| Under Age 1 | | 13,842 | - | 0.0% | 0.0% | \$ 79,681,442 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 6,173 | 85 | 1.4% | 1.4% | \$ 52,561,036 | \$ 827,408 | 1.6% | 1.6% |
| Years 21-44 | | 20,118 | 303 | 1.5% | 1.2% | \$ 141,905,760 | \$ 2,656,101 | 1.9% | 1.9% |
| Years 45-64 | | 11,480 | 427 | 3.7% | 3.1% | \$ 148,653,145 | \$ 4,574,514 | 3.1% | 2.3% |
| Years 65+ | | 277 | 8 | 2.9% | 4.3% | \$ 3,531,731 | \$ 44,686 | 1.3% | 2.5% |
| Total | | 51,890 | 823 | 1.6% | 1.3% | \$ 426,333,114 | \$ 8,102,708 | 1.9% | 1.6% |
| Statewide | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 95,706 | 2,644 | 2.8% | 2.3% | \$ 1,068,757,555 | \$ 26,282,416 | 2.5% | 1.9% |
| All Ages | Female | 151,532 | 2,499 | 1.6% | 1.4% | \$ 1,210,708,027 | \$ 26,346,310 | 2.2% | 1.7% |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% |
| Under Age 1 | | 56,271 | - | 0.0% | 0.0% | \$ 416,775,100 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 31,880 | 553 | 1.7% | 1.6% | \$ 348,207,415 | \$ 8,283,320 | 2.4% | 1.7% |
| Years 21-44 | | 93,810 | 2,057 | 2.2% | 1.9% | \$ 697,679,912 | \$ 17,939,292 | 2.6% | 2.2% |
| Years 45-64 | | 64,032 | 2,492 | 3.9% | 3.0% | \$ 800,014,783 | \$ 26,087,859 | 3.3% | 2.4% |
| Years 65+ | | 1,245 | 41 | 3.3% | 2.8% | \$ 16,788,372 | \$ 318,254 | 1.9% | 1.9% |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% |

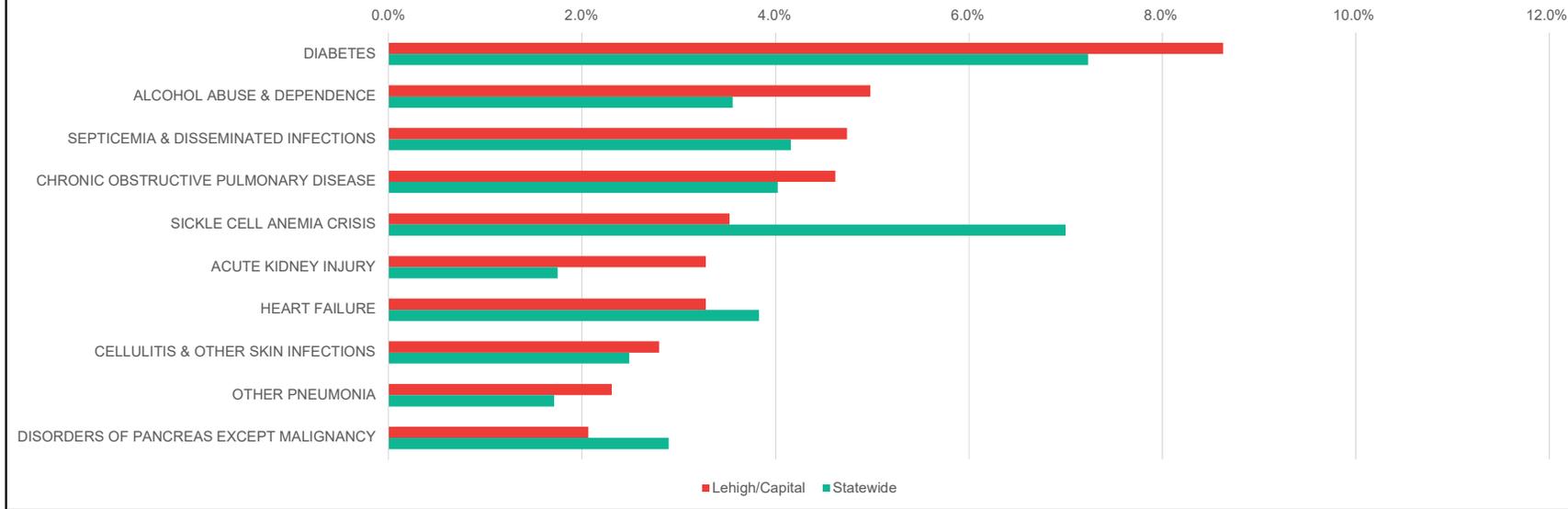


Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Lehigh/Capital |

| Top 10 PAE by Zone | | | Lehigh/Capital | | | | Statewide | | | |
|--------------------|---------|---|----------------|---------------------|---------------------|---------------------|--------------|----------------------|---------------------|---------------------|
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0420 | DIABETES | 71 | \$ 491,150 | 8.6% | 12.0% | 372 | \$ 2,340,504 | 7.2% | 7.4% |
| 2 | 0775 | ALCOHOL ABUSE & DEPENDENCE | 41 | \$ 204,157 | 5.0% | 7.8% | 183 | \$ 795,839 | 3.6% | 4.1% |
| 3 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 39 | \$ 446,399 | 4.7% | 4.0% | 214 | \$ 3,197,444 | 4.2% | 3.7% |
| 4 | 0140 | CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 38 | \$ 318,433 | 4.6% | 5.1% | 207 | \$ 1,764,696 | 4.0% | 4.6% |
| 5 | 0662 | SICKLE CELL ANEMIA CRISIS | 29 | \$ 203,061 | 3.5% | 2.0% | 360 | \$ 2,547,882 | 7.0% | 7.3% |
| 6 | 0469 | ACUTE KIDNEY INJURY | 27 | \$ 375,864 | 3.3% | 2.8% | 90 | \$ 962,318 | 1.7% | 2.2% |
| 7 | 0194 | HEART FAILURE | 27 | \$ 240,426 | 3.3% | 2.8% | 197 | \$ 2,164,721 | 3.8% | 3.7% |
| 8 | 0383 | CELLULITIS & OTHER SKIN INFECTIONS | 23 | \$ 225,374 | 2.8% | 2.9% | 128 | \$ 1,188,656 | 2.5% | 2.9% |
| 9 | 0139 | OTHER PNEUMONIA | 19 | \$ 192,335 | 2.3% | 1.5% | 88 | \$ 1,425,686 | 1.7% | 1.5% |
| 10 | 0282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 17 | \$ 133,868 | 2.1% | 1.9% | 149 | \$ 1,183,157 | 2.9% | 3.3% |
| | | All Else | 492 | \$ 5,271,643 | 59.8% | 57.2% | 3,155 | \$ 35,057,823 | 61.3% | 59.4% |
| | | Total | 823 | \$ 8,102,708 | 100.0% | 100.0% | 5,143 | \$ 52,628,726 | 100.0% | 100.0% |

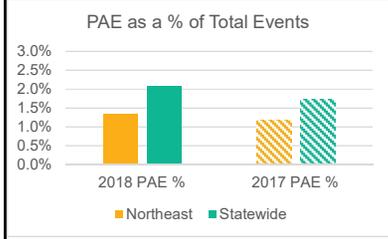
Top 10 PAE Based on Zone as a % of Total PAE



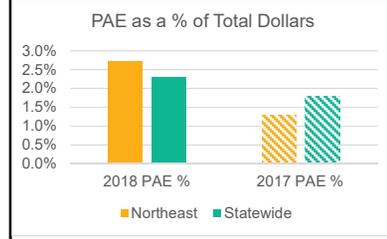
Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northeast |

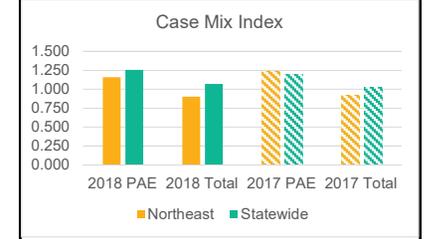
| 1. Total Events | | |
|-------------------|-------------|-------------|
| | Northeast | Statewide |
| PAE | 355 | 5,143 |
| Total | 26,674 | 247,238 |
| 2018 PAE % | 1.3% | 2.1% |
| 2017 PAE % | 1.2% | 1.7% |



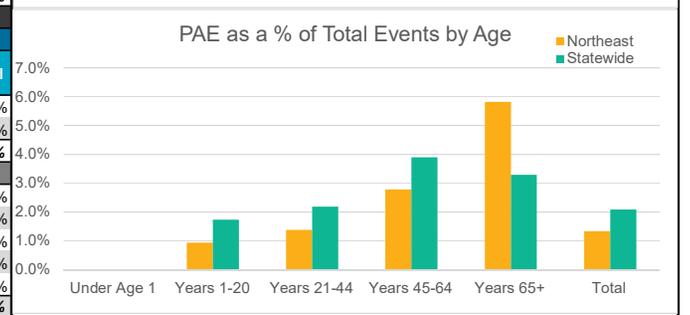
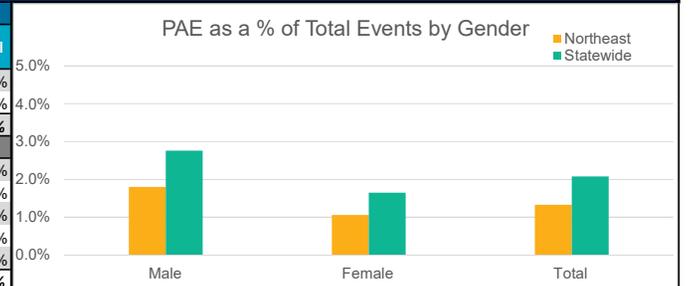
| 2. Total Dollars | | |
|-------------------|----------------|------------------|
| | Northeast | Statewide |
| PAE | \$ 5,243,552 | \$ 52,628,726 |
| Total | \$ 192,402,364 | \$ 2,279,465,581 |
| 2018 PAE % | 2.7% | 2.3% |
| 2017 PAE % | 1.3% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|-----------|-----------|
| | Northeast | Statewide |
| 2018 PAE | 1.158 | 1.256 |
| 2018 Total | 0.901 | 1.072 |
| 2017 PAE | 1.236 | 1.197 |
| 2017 Total | 0.918 | 1.021 |



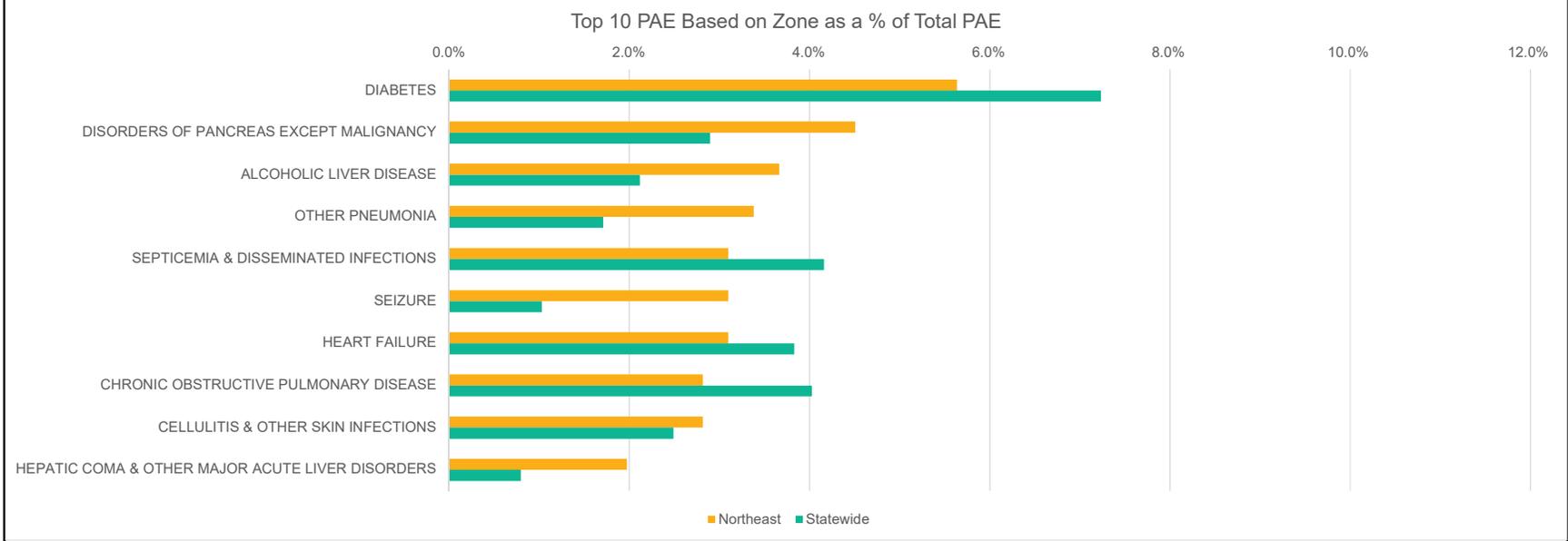
| 4. Events and Dollars by Age Band and Gender | | | | | | | | | | |
|--|--------|----------------|--------------|-----------------|-----------------|-------------------------|----------------------|-----------------|-----------------|--|
| Northeast | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 9,514 | 172 | 1.8% | 1.6% | \$ 80,017,399 | \$ 1,749,118 | 2.2% | 1.4% | |
| All Ages | Female | 17,160 | 183 | 0.9% | 0.9% | \$ 112,384,966 | \$ 3,494,434 | 3.1% | 1.2% | |
| Total | | 26,674 | 355 | 1.3% | 1.2% | \$ 192,402,364 | \$ 5,243,552 | 2.7% | 1.3% | |
| Under Age 1 | | 6,923 | - | 0.0% | 0.0% | \$ 27,922,139 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 2,887 | 27 | 0.9% | 0.6% | \$ 20,442,186 | \$ 1,661,387 | 8.1% | 0.9% | |
| Years 21-44 | | 10,225 | 141 | 1.4% | 1.4% | \$ 67,296,994 | \$ 1,742,384 | 2.6% | 1.7% | |
| Years 45-64 | | 6,553 | 182 | 2.8% | 2.2% | \$ 75,534,926 | \$ 1,775,821 | 2.4% | 1.5% | |
| Years 65+ | | 86 | 5 | 5.8% | 1.2% | \$ 1,206,120 | \$ 63,960 | 5.3% | 0.4% | |
| Total | | 26,674 | 355 | 1.3% | 1.2% | \$ 192,402,364 | \$ 5,243,552 | 2.7% | 1.3% | |
| Statewide | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 95,706 | 2,644 | 2.8% | 2.3% | \$ 1,068,757,555 | \$ 26,282,416 | 2.5% | 1.9% | |
| All Ages | Female | 151,532 | 2,499 | 1.6% | 1.4% | \$ 1,210,708,027 | \$ 26,346,310 | 2.2% | 1.7% | |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% | |
| Under Age 1 | | 56,271 | - | 0.0% | 0.0% | \$ 416,775,100 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 31,880 | 553 | 1.7% | 1.6% | \$ 348,207,415 | \$ 8,283,320 | 2.4% | 1.7% | |
| Years 21-44 | | 93,810 | 2,057 | 2.2% | 1.9% | \$ 697,679,912 | \$ 17,939,292 | 2.6% | 2.2% | |
| Years 45-64 | | 64,032 | 2,492 | 3.9% | 3.0% | \$ 800,014,783 | \$ 26,087,859 | 3.3% | 2.4% | |
| Years 65+ | | 1,245 | 41 | 3.3% | 2.8% | \$ 16,788,372 | \$ 318,254 | 1.9% | 1.9% | |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% | |



Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northeast |

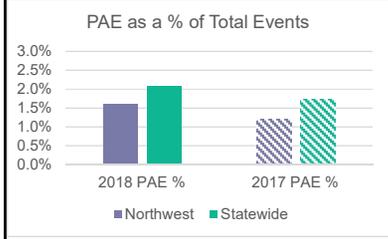
| 5. Events and Dollars by Top 10 APR-DRG | | | | | | | | | | |
|---|---------|--|------------|---------------------|---------------------|---------------------|--------------|----------------------|---------------------|---------------------|
| Top 10 PAE by Zone | | | Northeast | | | | Statewide | | | |
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0420 | DIABETES | 20 | \$ 126,716 | 5.6% | 4.4% | 372 | \$ 2,340,504 | 7.2% | 7.4% |
| 2 | 0282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 16 | \$ 133,938 | 4.5% | 6.3% | 149 | \$ 1,183,157 | 2.9% | 3.3% |
| 3 | 0280 | ALCOHOLIC LIVER DISEASE | 13 | \$ 145,032 | 3.7% | 1.9% | 109 | \$ 1,306,135 | 2.1% | 1.6% |
| 4 | 0139 | OTHER PNEUMONIA | 12 | \$ 497,432 | 3.4% | 2.2% | 88 | \$ 1,425,686 | 1.7% | 1.5% |
| 5 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 11 | \$ 161,820 | 3.1% | 5.7% | 214 | \$ 3,197,444 | 4.2% | 3.7% |
| 6 | 0053 | SEIZURE | 11 | \$ 136,873 | 3.1% | 1.6% | 53 | \$ 534,560 | 1.0% | 1.5% |
| 7 | 0194 | HEART FAILURE | 11 | \$ 90,787 | 3.1% | 1.9% | 197 | \$ 2,164,721 | 3.8% | 3.7% |
| 8 | 0140 | CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 10 | \$ 87,036 | 2.8% | 3.2% | 207 | \$ 1,764,696 | 4.0% | 4.6% |
| 9 | 0383 | CELLULITIS & OTHER SKIN INFECTIONS | 10 | \$ 82,363 | 2.8% | 3.2% | 128 | \$ 1,188,656 | 2.5% | 2.9% |
| 10 | 0279 | HEPATIC COMA & OTHER MAJOR ACUTE LIVER DISORDERS | 7 | \$ 122,050 | 2.0% | 2.5% | 41 | \$ 552,822 | 0.8% | 0.9% |
| | | All Else | 234 | \$ 3,659,504 | 65.9% | 67.2% | 3,585 | \$ 36,970,344 | 69.7% | 68.9% |
| | | Total | 355 | \$ 5,243,552 | 100.0% | 100.0% | 5,143 | \$ 52,628,726 | 100.0% | 100.0% |



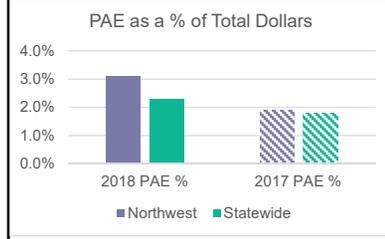
Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northwest |

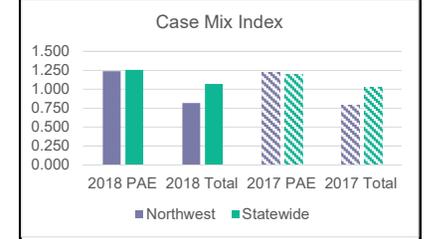
| 1. Total Events | | |
|-------------------|-------------|-------------|
| | Northwest | Statewide |
| PAE | 208 | 5,143 |
| Total | 13,038 | 247,238 |
| 2018 PAE % | 1.6% | 2.1% |
| 2017 PAE % | 1.2% | 1.7% |



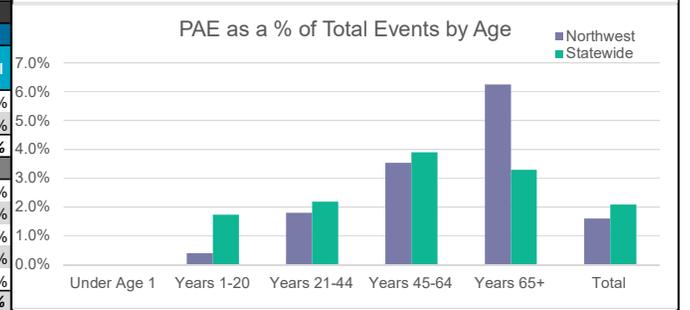
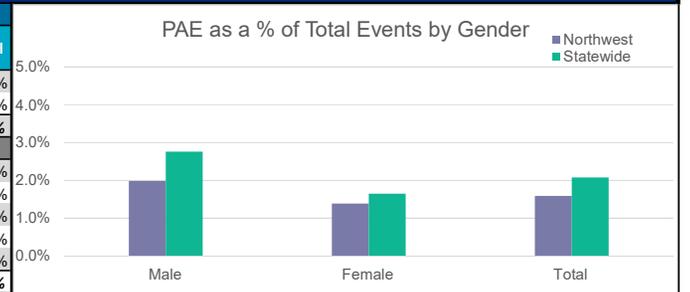
| 2. Total Dollars | | |
|-------------------|---------------|------------------|
| | Northwest | Statewide |
| PAE | \$ 2,348,796 | \$ 52,628,726 |
| Total | \$ 75,279,913 | \$ 2,279,465,581 |
| 2018 PAE % | 3.1% | 2.3% |
| 2017 PAE % | 1.9% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|-----------|-----------|
| | Northwest | Statewide |
| 2018 PAE | 1.240 | 1.256 |
| 2018 Total | 0.818 | 1.072 |
| 2017 PAE | 1.220 | 1.197 |
| 2017 Total | 0.793 | 1.021 |



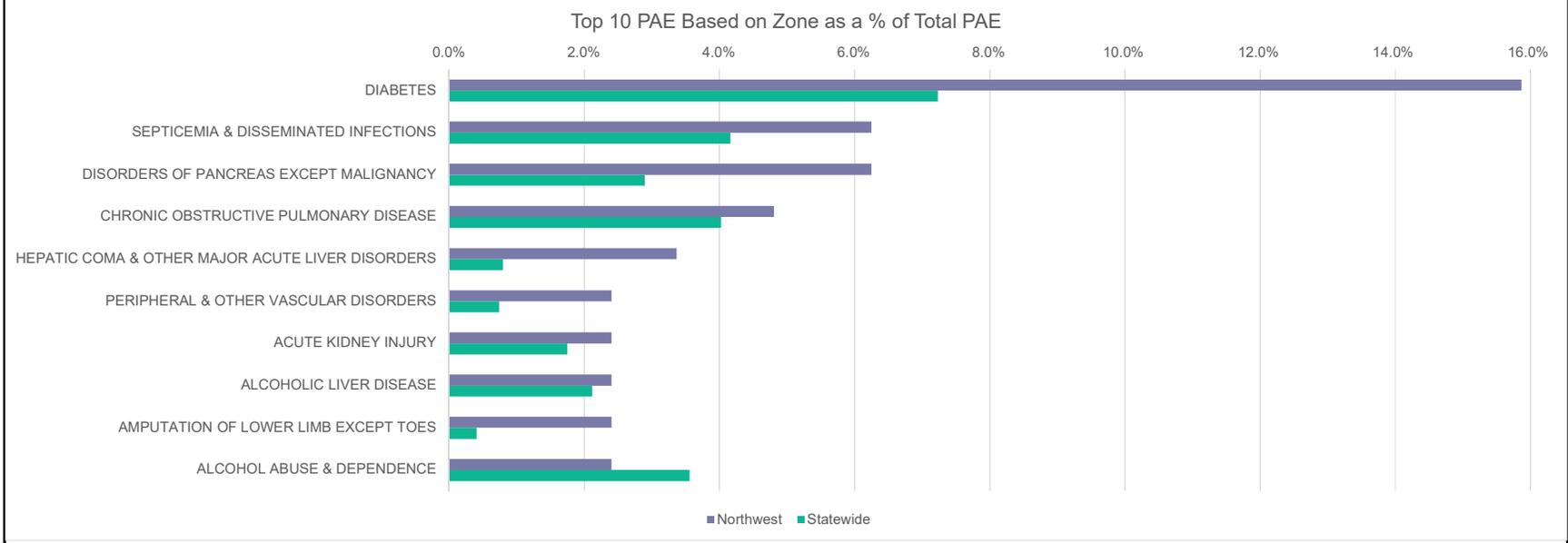
| 4. Events and Dollars by Age Band and Gender | | | | | | | | | |
|--|--------|----------------|--------------|-----------------|-----------------|-------------------------|----------------------|-----------------|-----------------|
| Northwest | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 4,480 | 89 | 2.0% | 1.6% | \$ 29,961,361 | \$ 1,090,154 | 3.6% | 1.8% |
| All Ages | Female | 8,558 | 119 | 1.4% | 1.0% | \$ 45,318,551 | \$ 1,258,642 | 2.8% | 2.0% |
| Total | | 13,038 | 208 | 1.6% | 1.2% | \$ 75,279,913 | \$ 2,348,796 | 3.1% | 1.9% |
| Under Age 1 | | 3,727 | - | 0.0% | 0.0% | \$ 10,625,374 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 1,025 | 4 | 0.4% | 0.7% | \$ 4,207,185 | \$ 20,742 | 0.5% | 1.1% |
| Years 21-44 | | 5,161 | 93 | 1.8% | 1.2% | \$ 27,930,671 | \$ 869,816 | 3.1% | 1.8% |
| Years 45-64 | | 3,109 | 110 | 3.5% | 2.8% | \$ 32,334,999 | \$ 1,451,110 | 4.5% | 2.8% |
| Years 65+ | | 16 | 1 | 6.3% | 5.9% | \$ 181,684 | \$ 7,129 | 3.9% | 7.4% |
| Total | | 13,038 | 208 | 1.6% | 1.2% | \$ 75,279,913 | \$ 2,348,796 | 3.1% | 1.9% |
| Statewide | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 95,706 | 2,644 | 2.8% | 2.3% | \$ 1,068,757,555 | \$ 26,282,416 | 2.5% | 1.9% |
| All Ages | Female | 151,532 | 2,499 | 1.6% | 1.4% | \$ 1,210,708,027 | \$ 26,346,310 | 2.2% | 1.7% |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% |
| Under Age 1 | | 56,271 | - | 0.0% | 0.0% | \$ 416,775,100 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 31,880 | 553 | 1.7% | 1.6% | \$ 348,207,415 | \$ 8,283,320 | 2.4% | 1.7% |
| Years 21-44 | | 93,810 | 2,057 | 2.2% | 1.9% | \$ 697,679,912 | \$ 17,939,292 | 2.6% | 2.2% |
| Years 45-64 | | 64,032 | 2,492 | 3.9% | 3.0% | \$ 800,014,783 | \$ 26,087,859 | 3.3% | 2.4% |
| Years 65+ | | 1,245 | 41 | 3.3% | 2.8% | \$ 16,788,372 | \$ 318,254 | 1.9% | 1.9% |
| Total | | 247,238 | 5,143 | 2.1% | 1.7% | \$ 2,279,465,581 | \$ 52,628,726 | 2.3% | 1.8% |



Appendix A

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northwest |

| Top 10 PAE by Zone | | | Northwest | | | | Statewide | | | |
|--------------------|---------|--|------------|---------------------|---------------------|---------------------|--------------|----------------------|---------------------|---------------------|
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0420 | DIABETES | 33 | \$ 204,842 | 15.9% | 7.3% | 372 | \$ 2,340,504 | 7.2% | 7.4% |
| 2 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 13 | \$ 131,164 | 6.3% | 5.5% | 214 | \$ 3,197,444 | 4.2% | 3.7% |
| 3 | 0282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 13 | \$ 96,688 | 6.3% | 7.3% | 149 | \$ 1,183,157 | 2.9% | 3.3% |
| 4 | 0140 | CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 10 | \$ 56,483 | 4.8% | 1.2% | 207 | \$ 1,764,696 | 4.0% | 4.6% |
| 5 | 0279 | HEPATIC COMA & OTHER MAJOR ACUTE LIVER DISORDERS | 7 | \$ 67,934 | 3.4% | 0.0% | 41 | \$ 552,822 | 0.8% | 0.9% |
| 6 | 0197 | PERIPHERAL & OTHER VASCULAR DISORDERS | 5 | \$ 96,299 | 2.4% | 0.0% | 38 | \$ 502,219 | 0.7% | 0.7% |
| 7 | 0469 | ACUTE KIDNEY INJURY | 5 | \$ 72,570 | 2.4% | 2.4% | 90 | \$ 962,318 | 1.7% | 2.2% |
| 8 | 0280 | ALCOHOLIC LIVER DISEASE | 5 | \$ 65,551 | 2.4% | 1.8% | 109 | \$ 1,306,135 | 2.1% | 1.6% |
| 9 | 0305 | AMPUTATION OF LOWER LIMB EXCEPT TOES | 5 | \$ 62,814 | 2.4% | 0.0% | 21 | \$ 293,383 | 0.4% | 0.3% |
| 10 | 0775 | ALCOHOL ABUSE & DEPENDENCE | 5 | \$ 16,960 | 2.4% | 2.4% | 183 | \$ 795,839 | 3.6% | 4.1% |
| | | All Else | 107 | \$ 1,477,490 | 51.4% | 72.0% | 3,719 | \$ 39,730,208 | 72.3% | 71.3% |
| | | Total | 208 | \$ 2,348,796 | 100.0% | 100.0% | 5,143 | \$ 52,628,726 | 100.0% | 100.0% |



Appendix B

Potentially Avoidable Complications — MCO Beneficiaries

Contents

| Table # | Table Title |
|---------|---|
| 1 | Events by Potentially Avoidable Complications |

The table identified above is included for each zone. Zone results are displayed in the following order: Southeast, Southwest, Lehigh/Capital, Northeast and Northwest. This is the second year of the analysis; therefore, both CY 2018 and CY 2017 results are available and displayed as applicable.

Detailed Description of Tables

Table 1 — displays the total number and types of PACs. This value is displayed at both the zone and statewide level.

Additional Notes Regarding Data

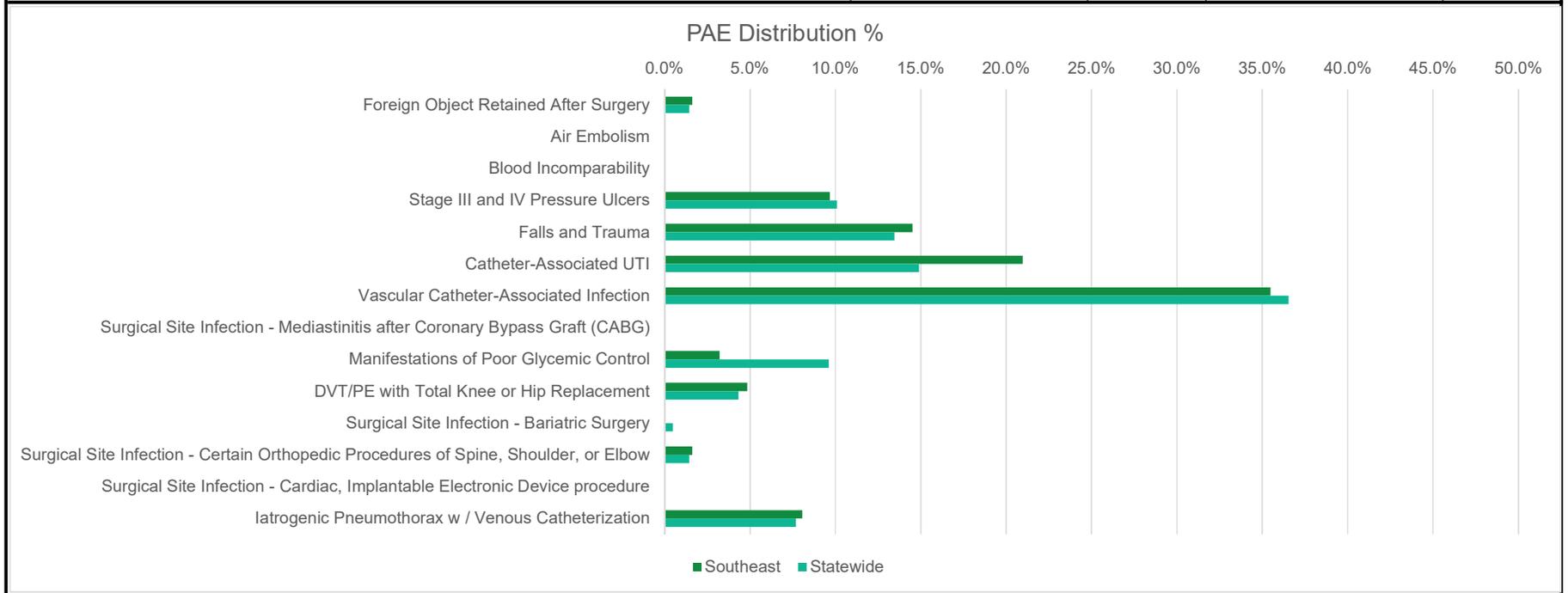
1. Admits and Dollars for CY 2018 service dates are based on PH-MCO encounter data submitted through September 30, 2019.
2. Inpatient is defined as acute inpatient hospital admissions.
3. HCACs are identified using the following process:
 - A. HCACs are identified using publicly available CMS diagnosis and procedure code criteria for fiscal year (FY) 2018.

- B. Identified HCACs are then reviewed using POA criteria included on PH-MCO submitted encounter data.
- 4. PAEs exclude claims with provider types other than "01" (Acute Care Hospital).
- 5. Beneficiaries eligible for Community HealthChoices are excluded from analysis.

Appendix B

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southeast |

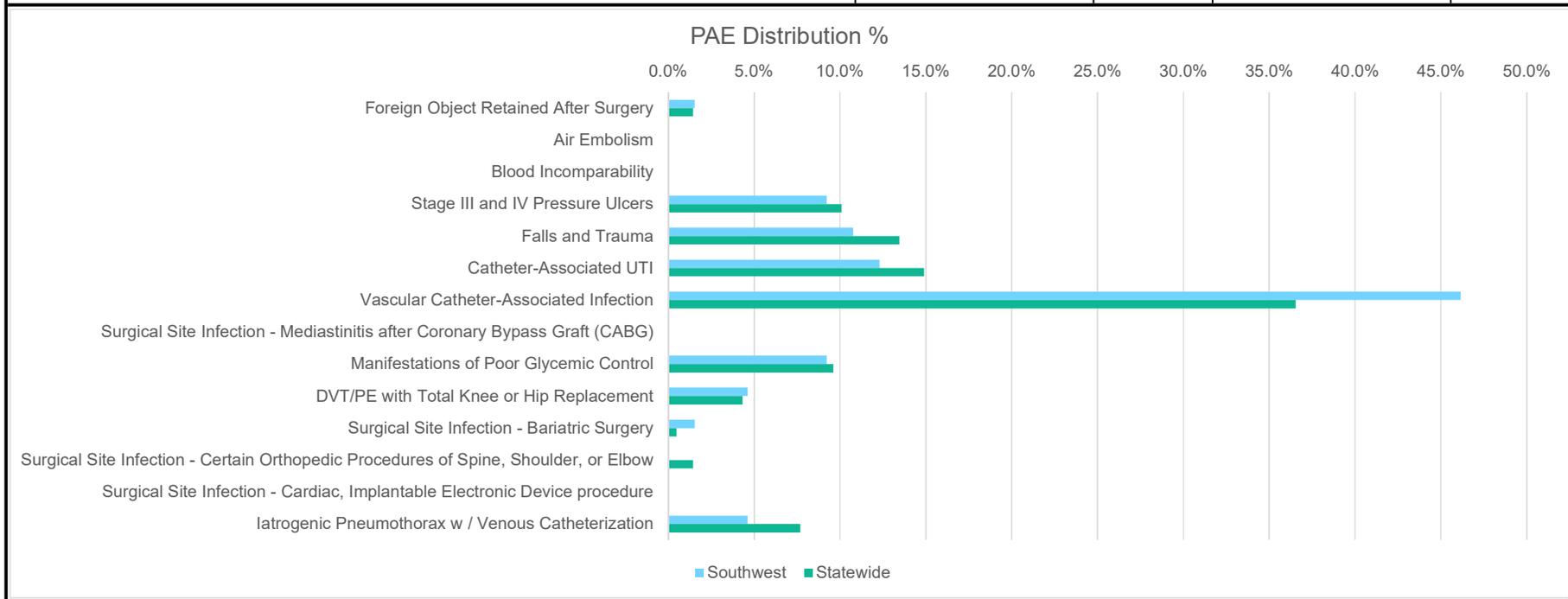
| 1. Events by Potentially Avoidable Complication | | Southeast | | | Statewide | | |
|---|--|-----------|---------------------|---------------------|------------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | 1 | 1.6% | 5.4% | 3 | 1.4% | 2.5% |
| 2 | Air Embolism | - | 0.0% | 0.0% | - | 0.0% | 0.4% |
| 3 | Blood Incomparability | - | 0.0% | 0.0% | - | 0.0% | 0.4% |
| 4 | Stage III and IV Pressure Ulcers | 6 | 9.7% | 12.9% | 21 | 10.1% | 12.9% |
| 5 | Falls and Trauma | 9 | 14.5% | 11.8% | 28 | 13.5% | 16.2% |
| 6 | Catheter-Associated UTI | 13 | 21.0% | 14.0% | 31 | 14.9% | 12.0% |
| 7 | Vascular Catheter-Associated Infection | 22 | 35.5% | 32.3% | 76 | 36.5% | 33.6% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 1.1% | - | 0.0% | 0.8% |
| 9 | Manifestations of Poor Glycemic Control | 2 | 3.2% | 4.3% | 20 | 9.6% | 7.5% |
| 10 | DVT/PE with Total Knee or Hip Replacement | 3 | 4.8% | 2.2% | 9 | 4.3% | 2.5% |
| 11 | Surgical Site Infection - Bariatric Surgery | - | 0.0% | 1.1% | 1 | 0.5% | 0.8% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | 1 | 1.6% | 4.3% | 3 | 1.4% | 2.9% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 1.1% | - | 0.0% | 0.8% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 5 | 8.1% | 9.7% | 16 | 7.7% | 6.6% |
| Total | | 62 | 100.0% | 100.0% | 208 | 100.0% | 100.0% |



Appendix B

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southwest |

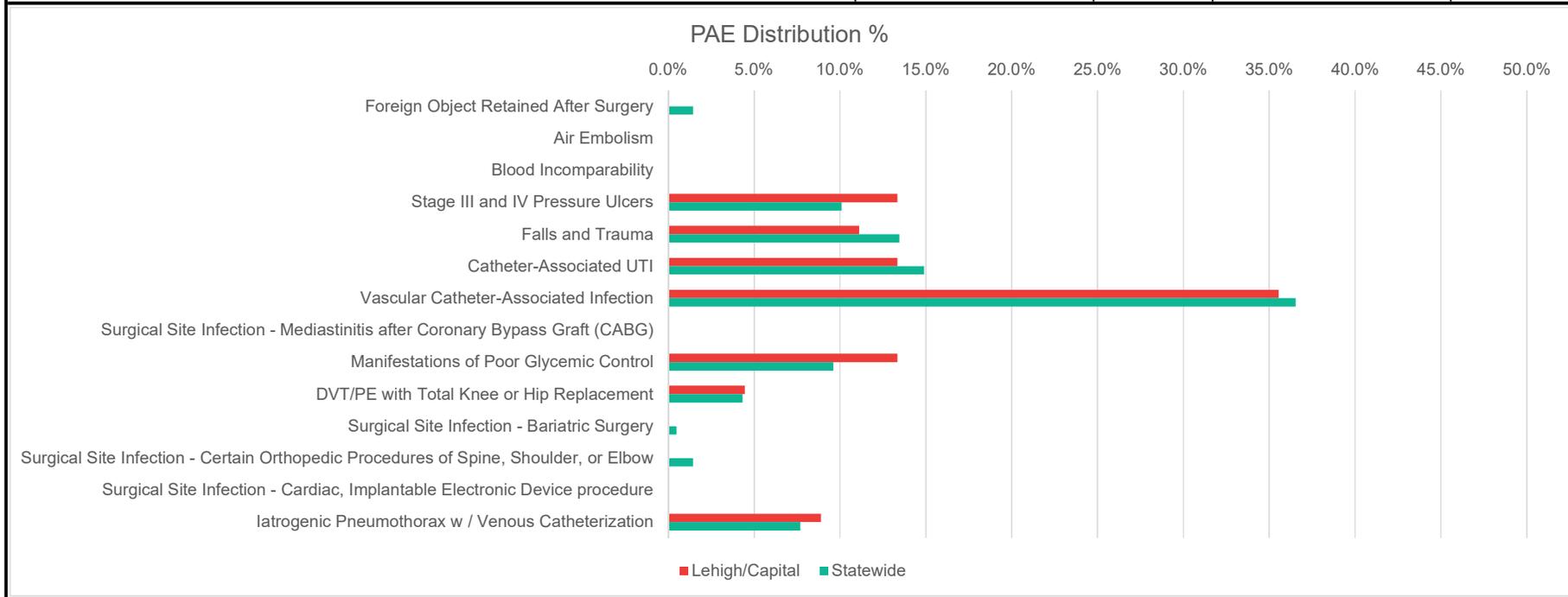
| 1. Events by Potentially Avoidable Complication | | Southwest | | | Statewide | | |
|---|--|-----------|---------------------|---------------------|------------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | 1 | 1.5% | 1.4% | 3 | 1.4% | 2.5% |
| 2 | Air Embolism | - | 0.0% | 1.4% | - | 0.0% | 0.4% |
| 3 | Blood Incomparability | - | 0.0% | 0.0% | - | 0.0% | 0.4% |
| 4 | Stage III and IV Pressure Ulcers | 6 | 9.2% | 14.5% | 21 | 10.1% | 12.9% |
| 5 | Falls and Trauma | 7 | 10.8% | 15.9% | 28 | 13.5% | 16.2% |
| 6 | Catheter-Associated UTI | 8 | 12.3% | 7.2% | 31 | 14.9% | 12.0% |
| 7 | Vascular Catheter-Associated Infection | 30 | 46.2% | 43.5% | 76 | 36.5% | 33.6% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 0.0% | - | 0.0% | 0.8% |
| 9 | Manifestations of Poor Glycemic Control | 6 | 9.2% | 7.2% | 20 | 9.6% | 7.5% |
| 10 | DVT/PE with Total Knee or Hip Replacement | 3 | 4.6% | 4.3% | 9 | 4.3% | 2.5% |
| 11 | Surgical Site Infection - Bariatric Surgery | 1 | 1.5% | 1.4% | 1 | 0.5% | 0.8% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | - | 0.0% | 0.0% | 3 | 1.4% | 2.9% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 0.0% | - | 0.0% | 0.8% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 3 | 4.6% | 2.9% | 16 | 7.7% | 6.6% |
| Total | | 65 | 100.0% | 100.0% | 208 | 100.0% | 100.0% |



Appendix B

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Lehigh/Capital |

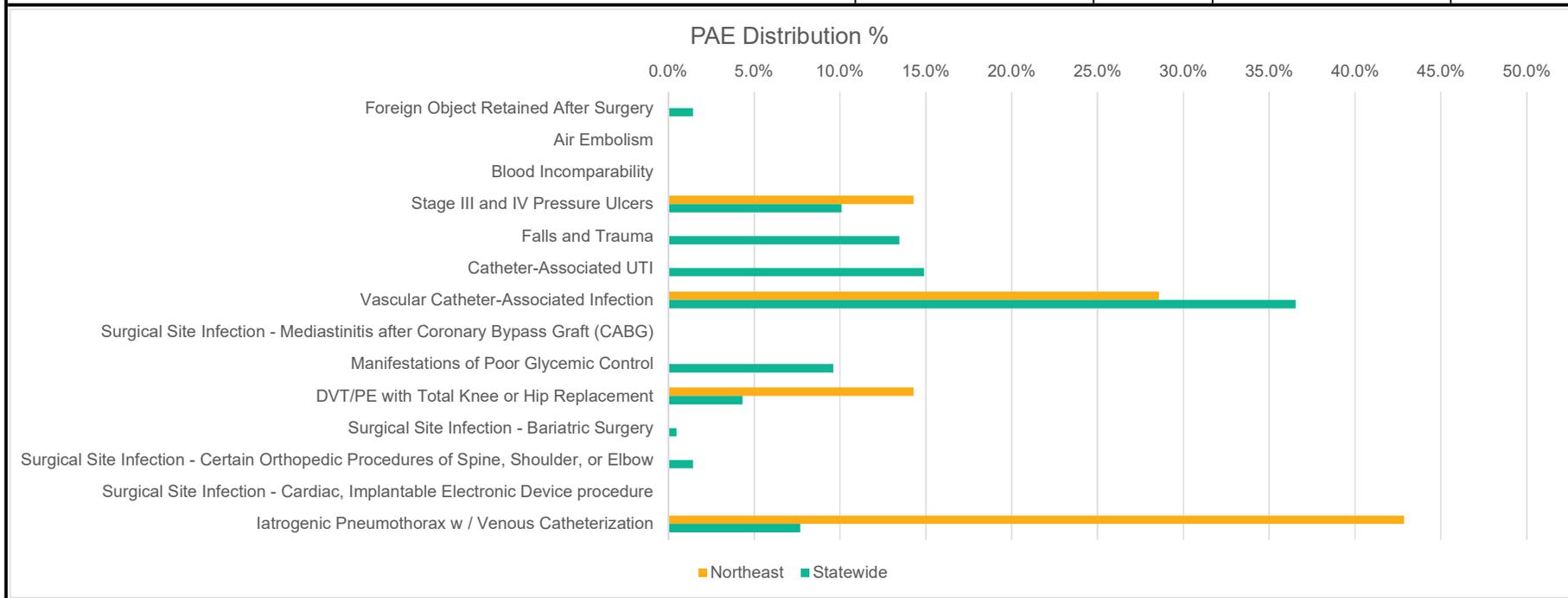
| 1. Events by Potentially Avoidable Complication | | Lehigh/Capital | | | Statewide | | |
|---|--|----------------|---------------------|---------------------|------------|---------------------|---------------------|
| | | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | - | 0.0% | 0.0% | 3 | 1.4% | 2.5% |
| 2 | Air Embolism | - | 0.0% | 0.0% | - | 0.0% | 0.4% |
| 3 | Blood Incomparability | - | 0.0% | 2.6% | - | 0.0% | 0.4% |
| 4 | Stage III and IV Pressure Ulcers | 6 | 13.3% | 10.3% | 21 | 10.1% | 12.9% |
| 5 | Falls and Trauma | 5 | 11.1% | 5.1% | 28 | 13.5% | 16.2% |
| 6 | Catheter-Associated UTI | 6 | 13.3% | 15.4% | 31 | 14.9% | 12.0% |
| 7 | Vascular Catheter-Associated Infection | 16 | 35.6% | 30.8% | 76 | 36.5% | 33.6% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 2.6% | - | 0.0% | 0.8% |
| 9 | Manifestations of Poor Glycemic Control | 6 | 13.3% | 17.9% | 20 | 9.6% | 7.5% |
| 10 | DVT/PE with Total Knee or Hip Replacement | 2 | 4.4% | 0.0% | 9 | 4.3% | 2.5% |
| 11 | Surgical Site Infection - Bariatric Surgery | - | 0.0% | 0.0% | 1 | 0.5% | 0.8% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | - | 0.0% | 5.1% | 3 | 1.4% | 2.9% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 0.0% | - | 0.0% | 0.8% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 4 | 8.9% | 10.3% | 16 | 7.7% | 6.6% |
| Total | | 45 | 100.0% | 100.0% | 208 | 100.0% | 100.0% |



Appendix B

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northeast |

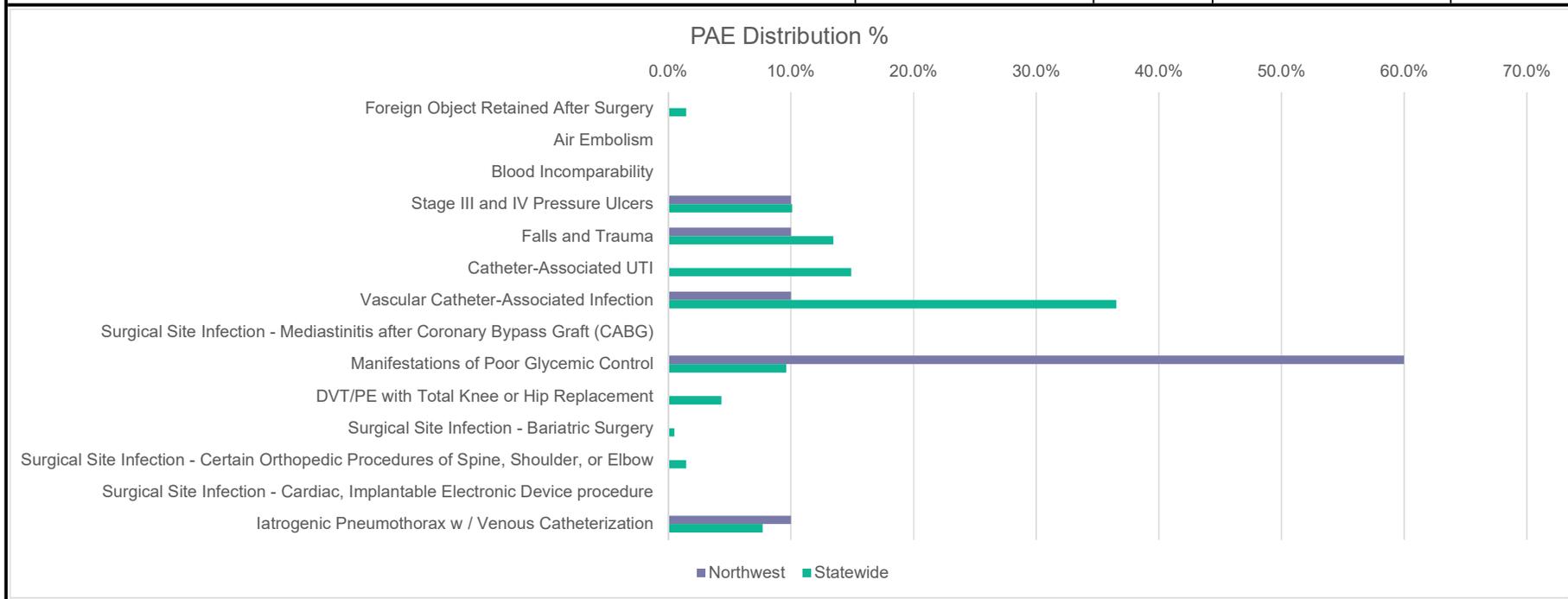
| 1. Events by Potentially Avoidable Complication | | Northeast | | | Statewide | | |
|---|--|-----------|---------------------|---------------------|------------|---------------------|---------------------|
| | | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | - | 0.0% | 0.0% | 3 | 1.4% | 2.5% |
| 2 | Air Embolism | - | 0.0% | 0.0% | - | 0.0% | 0.4% |
| 3 | Blood Incomparability | - | 0.0% | 0.0% | - | 0.0% | 0.4% |
| 4 | Stage III and IV Pressure Ulcers | 1 | 14.3% | 12.5% | 21 | 10.1% | 12.9% |
| 5 | Falls and Trauma | - | 0.0% | 37.5% | 28 | 13.5% | 16.2% |
| 6 | Catheter-Associated UTI | - | 0.0% | 25.0% | 31 | 14.9% | 12.0% |
| 7 | Vascular Catheter-Associated Infection | 2 | 28.6% | 12.5% | 76 | 36.5% | 33.6% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 0.0% | - | 0.0% | 0.8% |
| 9 | Manifestations of Poor Glycemic Control | - | 0.0% | 12.5% | 20 | 9.6% | 7.5% |
| 10 | DVT/PE with Total Knee or Hip Replacement | 1 | 14.3% | 0.0% | 9 | 4.3% | 2.5% |
| 11 | Surgical Site Infection - Bariatric Surgery | - | 0.0% | 0.0% | 1 | 0.5% | 0.8% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | - | 0.0% | 0.0% | 3 | 1.4% | 2.9% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 0.0% | - | 0.0% | 0.8% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 3 | 42.9% | 0.0% | 16 | 7.7% | 6.6% |
| Total | | 7 | 100.0% | 100.0% | 208 | 100.0% | 100.0% |



Appendix B

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northwest |

| 1. Events by Potentially Avoidable Complication | | Northwest | | | Statewide | | |
|---|--|-----------|---------------------|---------------------|------------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | - | 0.0% | 0.0% | 3 | 1.4% | 2.5% |
| 2 | Air Embolism | - | 0.0% | 0.0% | - | 0.0% | 0.4% |
| 3 | Blood Incomparability | - | 0.0% | 0.0% | - | 0.0% | 0.4% |
| 4 | Stage III and IV Pressure Ulcers | 1 | 10.0% | 0.0% | 21 | 10.1% | 12.9% |
| 5 | Falls and Trauma | 1 | 10.0% | 20.0% | 28 | 13.5% | 16.2% |
| 6 | Catheter-Associated UTI | - | 0.0% | 0.0% | 31 | 14.9% | 12.0% |
| 7 | Vascular Catheter-Associated Infection | 1 | 10.0% | 60.0% | 76 | 36.5% | 33.6% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 0.0% | - | 0.0% | 0.8% |
| 9 | Manifestations of Poor Glycemic Control | 6 | 60.0% | 0.0% | 20 | 9.6% | 7.5% |
| 10 | DVT/PE with Total Knee or Hip Replacement | - | 0.0% | 20.0% | 9 | 4.3% | 2.5% |
| 11 | Surgical Site Infection - Bariatric Surgery | - | 0.0% | 0.0% | 1 | 0.5% | 0.8% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | - | 0.0% | 0.0% | 3 | 1.4% | 2.9% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 0.0% | - | 0.0% | 0.8% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 1 | 10.0% | 0.0% | 16 | 7.7% | 6.6% |
| Total | | 10 | 100.0% | 100.0% | 208 | 100.0% | 100.0% |



Appendix C

Potentially Avoidable Readmissions — FFS Beneficiaries

Contents

| Table # | Table Title |
|---------|---|
| 1 | Total Events |
| 2 | Total Dollars |
| 3 | APR-DRG Case Mix Index |
| 4 | Events and Dollars by Age Band and Gender |
| 5 | Events and Dollars by Top 10 APR-DRG |

The tables identified above are included for each zone. Zone results are displayed in the following order: Southeast, Southwest, Lehigh/Capital, Northeast and Northwest. This is the second year of the analysis; therefore, both CY 2018 and CY 2017 results are available and displayed as applicable.

Detailed Description of Tables

Table 1 — displays the total number of PAR as a percent of total inpatient hospital admissions. This value is displayed at both the zone and statewide level.

Table 2 — displays the total expenditures related to PAR as a percent of total inpatient hospital expenditures. This value is displayed at both the zone and statewide level.

Table 3 — displays the average APR-DRG Case Mix Index for those admissions identified as PARs at the zone and statewide level. Also displays the APR-DRG average Case Mix Index for all admissions at the zone and statewide level.

Table 4 — displays the total number of PAR as a percent of total inpatient hospital admissions by age band and gender. These values are displayed at both the zone and statewide level.

Table 5 — displays the 10 most frequent diagnosis (APR-DRG) in the zone that result in PARs within the zone. These values are displayed at both the zone and statewide level.

Additional Notes Regarding Data

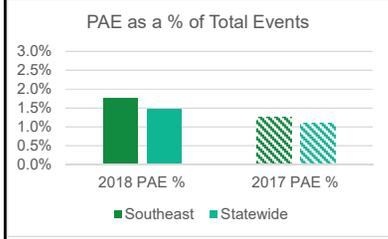
1. Admits and dollars for CY 2018 service dates are based on FFS claims data submitted through September 30, 2019.
2. Inpatient is defined as acute inpatient hospital admissions.
3. APR-DRGs are assigned by PROMISe system and represent a mix of APR-DRG versions 35 and 36 depending on discharge date. Case Mix Index reflects the average APR-DRG relative value weight across all admissions as established by the Department. If APR-DRG relative value weight was not present on the claim, an average relative value weight was assigned. These average relative value weights were calculated at the hospital level.
4. There are always at least two admissions related to a PAR. The first admission is referred to as the “anchor admission”. When the beneficiary is discharged and admitted again within 30 days, the subsequent admission is referred to as a “readmission”. The PAR APR-DRG is assigned based on the anchor admission.
5. Replacement costs are not considered in this analysis.
6. Age and gender are assigned using eligibility files provided by the Department.
7. Claims with revenue code 0762 and no room and board code, indicating an observation stay, were excluded from PAR analysis.

8. Readmissions are defined as inpatient hospital admissions within 30 days of an admission for the same beneficiary with any DRG at any facility. Not all readmissions within 30 days are considered potentially avoidable. Therefore, Mercer clinicians review readmissions (line by line) to determine if the readmission should be considered potentially avoidable. An admission is not considered potentially avoidable when:
 - A. Beneficiary has a qualifying clinical global exclusion diagnosis (examples include trauma and malignancies).
 - B. Beneficiary is three years of age and under or 85 years of age and older.
 - C. Beneficiary has a qualifying outpatient encounter between admissions.
 - D. Beneficiary was discharged due to death or to hospice.
9. Beneficiaries eligible for Medicare Part D or Medicare Advantage are excluded from analysis.
10. PAR values displayed are post clinical global exclusions and clinical review (as described in #8 above). Targeted efficiency levels are not applied.

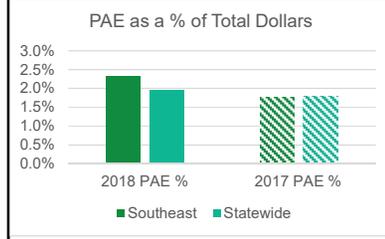
Appendix C

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southeast |

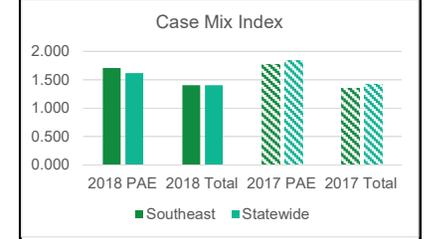
| 1. Total Events | | |
|-------------------|-------------|-------------|
| | Southeast | Statewide |
| PAE | 283 | 545 |
| Total | 16,106 | 36,764 |
| 2018 PAE % | 1.8% | 1.5% |
| 2017 PAE % | 1.3% | 1.1% |



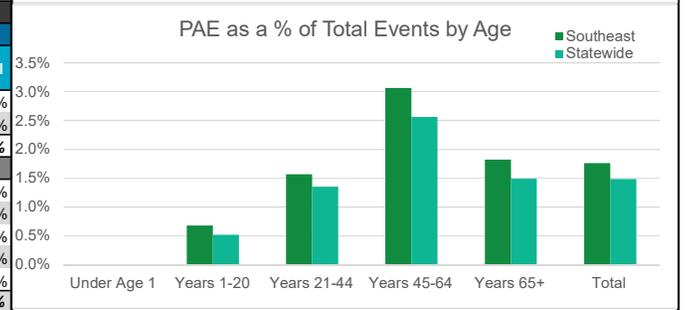
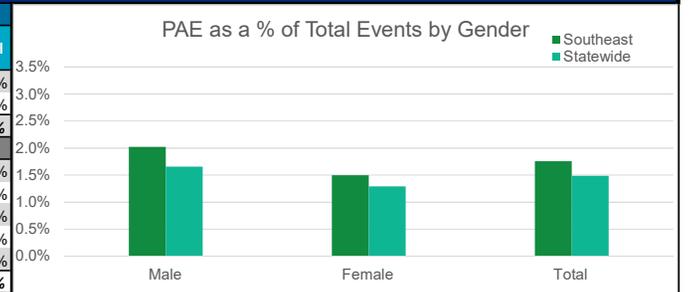
| 2. Total Dollars | | |
|-------------------|----------------|----------------|
| | Southeast | Statewide |
| PAE | \$ 4,907,880 | \$ 8,692,523 |
| Total | \$ 211,358,600 | \$ 440,393,061 |
| 2018 PAE % | 2.3% | 2.0% |
| 2017 PAE % | 1.8% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|-----------|-----------|
| | Southeast | Statewide |
| 2018 PAE | 1.706 | 1.619 |
| 2018 Total | 1.403 | 1.402 |
| 2017 PAE | 1.765 | 1.840 |
| 2017 Total | 1.350 | 1.414 |



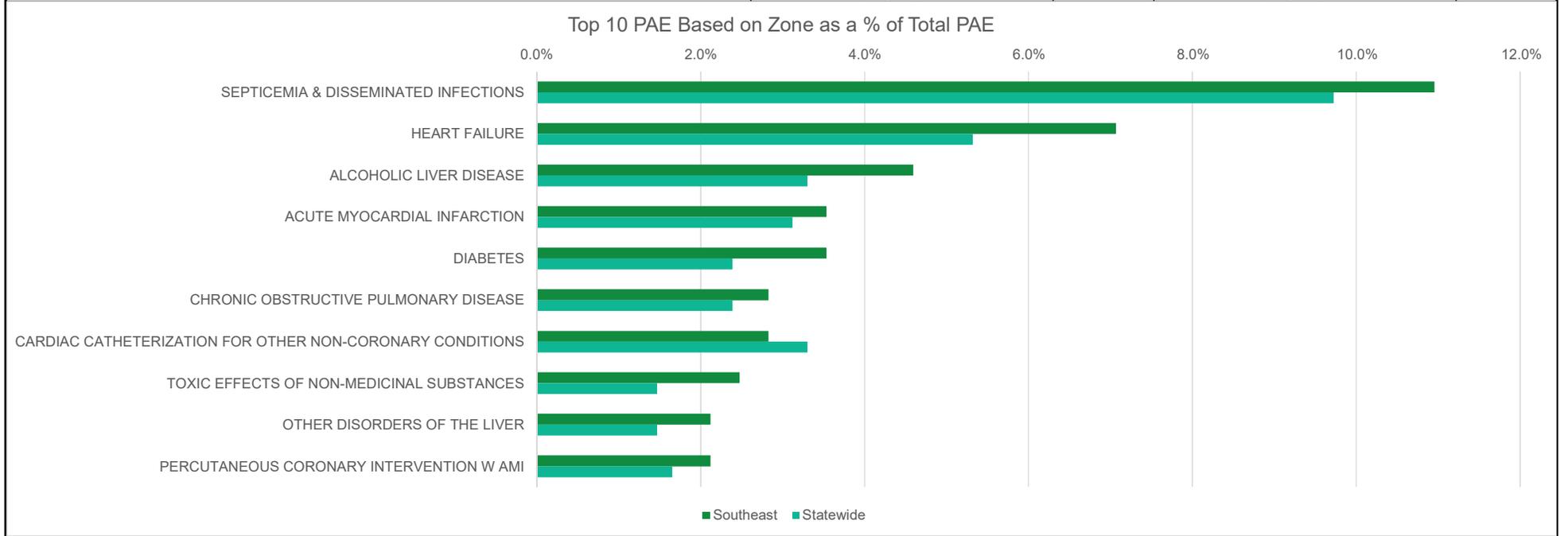
| 4. Events and Dollars by Age Band and Gender | | | | | | | | | |
|--|--------|---------------|------------|-----------------|-----------------|-----------------------|---------------------|-----------------|-----------------|
| Southeast | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 8,017 | 162 | 2.0% | 1.6% | \$ 128,855,124 | \$ 2,768,068 | 2.1% | 1.5% |
| All Ages | Female | 8,089 | 121 | 1.0% | 1.0% | \$ 82,503,476 | \$ 2,139,812 | 2.6% | 2.2% |
| Total | | 16,106 | 283 | 1.8% | 1.3% | \$ 211,358,600 | \$ 4,907,880 | 2.3% | 1.8% |
| Under Age 1 | | 3,111 | - | 0.0% | 0.0% | \$ 26,760,721 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 588 | 4 | 0.7% | 0.2% | \$ 7,154,674 | \$ 47,512 | 0.7% | 0.1% |
| Years 21-44 | | 5,809 | 91 | 1.6% | 0.9% | \$ 66,458,845 | \$ 1,324,978 | 2.0% | 1.0% |
| Years 45-64 | | 5,446 | 167 | 3.1% | 2.5% | \$ 92,670,164 | \$ 2,986,068 | 3.2% | 3.0% |
| Years 65+ | | 1,152 | 21 | 1.8% | 1.8% | \$ 18,314,197 | \$ 549,322 | 3.0% | 2.1% |
| Total | | 16,106 | 283 | 1.8% | 1.3% | \$ 211,358,600 | \$ 4,907,880 | 2.3% | 1.8% |
| Statewide | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 19,205 | 318 | 1.7% | 1.3% | \$ 276,121,871 | \$ 4,817,708 | 1.7% | 1.8% |
| All Ages | Female | 17,559 | 227 | 1.3% | 0.9% | \$ 164,271,190 | \$ 3,874,815 | 2.4% | 1.8% |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% |
| Under Age 1 | | 7,156 | - | 0.0% | 0.0% | \$ 53,389,128 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 1,545 | 8 | 0.5% | 0.7% | \$ 15,564,298 | \$ 72,254 | 0.5% | 0.5% |
| Years 21-44 | | 13,212 | 179 | 1.4% | 0.9% | \$ 140,522,026 | \$ 2,882,909 | 2.1% | 1.6% |
| Years 45-64 | | 12,768 | 327 | 2.6% | 2.1% | \$ 199,077,544 | \$ 5,018,883 | 2.5% | 2.6% |
| Years 65+ | | 2,083 | 31 | 1.5% | 1.4% | \$ 31,840,065 | \$ 718,476 | 2.3% | 2.0% |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% |



Appendix C

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southeast |

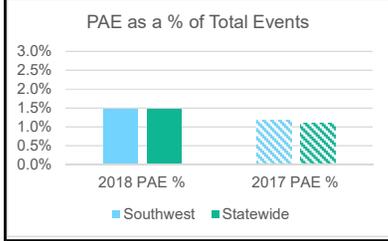
| Top 10 PAE by Zone | | | Southeast | | | | Statewide | | | |
|--------------------|---------|---|------------|---------------------|---------------------|---------------------|------------|---------------------|---------------------|---------------------|
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 31 | \$ 695,001 | 11.0% | 10.9% | 53 | \$ 1,291,583 | 9.7% | 10.2% |
| 2 | 0194 | HEART FAILURE | 20 | \$ 332,413 | 7.1% | 5.7% | 29 | \$ 537,983 | 5.3% | 4.7% |
| 3 | 0280 | ALCOHOLIC LIVER DISEASE | 13 | \$ 125,434 | 4.6% | 0.5% | 18 | \$ 317,604 | 3.3% | 1.7% |
| 4 | 0190 | ACUTE MYOCARDIAL INFARCTION | 10 | \$ 186,920 | 3.5% | 0.0% | 17 | \$ 346,146 | 3.1% | 0.5% |
| 5 | 0420 | DIABETES | 10 | \$ 93,097 | 3.5% | 3.1% | 13 | \$ 126,111 | 2.4% | 3.5% |
| 6 | 0140 | CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 8 | \$ 224,471 | 2.8% | 5.2% | 13 | \$ 331,123 | 2.4% | 3.7% |
| 7 | 0192 | CARDIAC CATHETERIZATION FOR OTHER NON-CORONARY CONDITIONS | 8 | \$ 120,267 | 2.8% | 2.6% | 18 | \$ 308,666 | 3.3% | 2.0% |
| 8 | 0816 | TOXIC EFFECTS OF NON-MEDICINAL SUBSTANCES | 7 | \$ 52,622 | 2.5% | 0.5% | 8 | \$ 68,201 | 1.5% | 0.2% |
| 9 | 0283 | OTHER DISORDERS OF THE LIVER | 6 | \$ 132,640 | 2.1% | 0.0% | 8 | \$ 167,599 | 1.5% | 0.0% |
| 10 | 0174 | PERCUTANEOUS CORONARY INTERVENTION W AMI | 6 | \$ 118,843 | 2.1% | 2.1% | 9 | \$ 141,479 | 1.7% | 2.7% |
| | | All Else | 164 | \$ 2,826,171 | 58.0% | 69.3% | 359 | \$ 5,056,027 | 65.9% | 70.6% |
| | | Total | 283 | \$ 4,907,880 | 100.0% | 100.0% | 545 | \$ 8,692,523 | 100.0% | 100.0% |



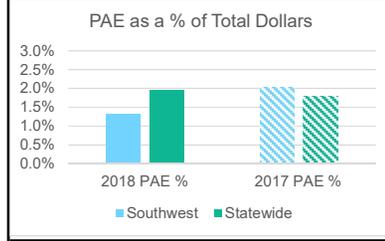
Appendix C

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southwest |

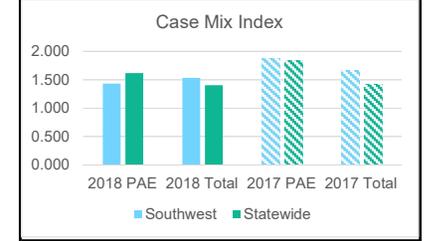
| 1. Total Events | | |
|-------------------|-------------|-------------|
| | Southwest | Statewide |
| PAE | 87 | 545 |
| Total | 5,925 | 36,764 |
| 2018 PAE % | 1.5% | 1.5% |
| 2017 PAE % | 1.2% | 1.1% |



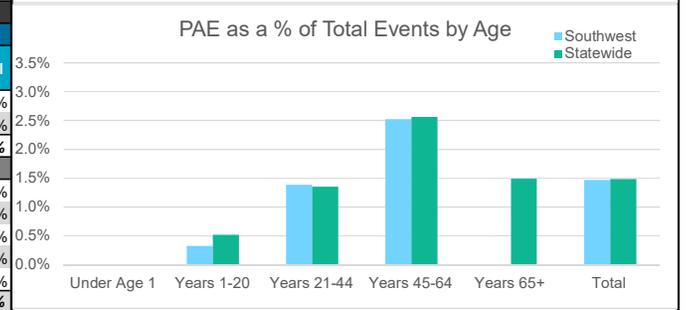
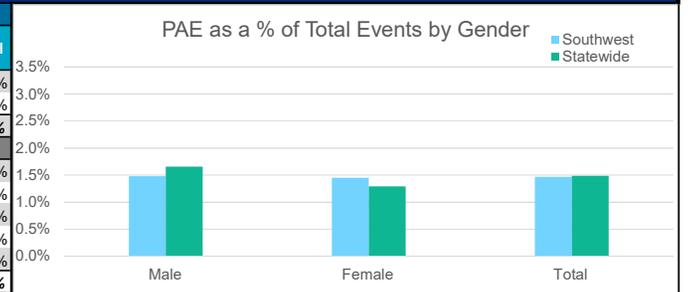
| 2. Total Dollars | | |
|-------------------|---------------|----------------|
| | Southwest | Statewide |
| PAE | \$ 931,119 | \$ 8,692,523 |
| Total | \$ 70,720,638 | \$ 440,393,061 |
| 2018 PAE % | 1.3% | 2.0% |
| 2017 PAE % | 2.0% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|-----------|-----------|
| | Southwest | Statewide |
| 2018 PAE | 1.435 | 1.619 |
| 2018 Total | 1.536 | 1.402 |
| 2017 PAE | 1.883 | 1.840 |
| 2017 Total | 1.660 | 1.414 |



| 4. Events and Dollars by Age Band and Gender | | | | | | | | | | |
|--|--------|---------------|------------|-----------------|-----------------|-----------------------|---------------------|-----------------|-----------------|--|
| Southwest | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 3,513 | 52 | 1.5% | 1.1% | \$ 48,545,648 | \$ 565,170 | 1.2% | 2.3% | |
| All Ages | Female | 2,412 | 35 | 1.5% | 1.3% | \$ 22,174,991 | \$ 365,950 | 1.7% | 1.6% | |
| Total | | 5,925 | 87 | 1.5% | 1.2% | \$ 70,720,638 | \$ 931,119 | 1.3% | 2.0% | |
| Under Age 1 | | 1,008 | - | 0.0% | 0.0% | \$ 7,977,025 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 306 | 1 | 0.3% | 0.6% | \$ 3,726,835 | \$ 5,361 | 0.1% | 0.5% | |
| Years 21-44 | | 2,239 | 31 | 1.4% | 1.0% | \$ 24,016,988 | \$ 257,880 | 1.1% | 3.8% | |
| Years 45-64 | | 2,180 | 55 | 2.5% | 1.9% | \$ 31,996,102 | \$ 667,878 | 2.1% | 1.6% | |
| Years 65+ | | 192 | - | 0.0% | 0.6% | \$ 3,003,688 | \$ - | 0.0% | 0.7% | |
| Total | | 5,925 | 87 | 1.5% | 1.2% | \$ 70,720,638 | \$ 931,119 | 1.3% | 2.0% | |
| Statewide | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 19,205 | 318 | 1.7% | 1.3% | \$ 276,121,871 | \$ 4,817,708 | 1.7% | 1.8% | |
| All Ages | Female | 17,559 | 227 | 1.3% | 0.9% | \$ 164,271,190 | \$ 3,874,815 | 2.4% | 1.8% | |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% | |
| Under Age 1 | | 7,156 | - | 0.0% | 0.0% | \$ 53,389,128 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 1,545 | 8 | 0.5% | 0.7% | \$ 15,564,298 | \$ 72,254 | 0.5% | 0.5% | |
| Years 21-44 | | 13,212 | 179 | 1.4% | 0.9% | \$ 140,522,026 | \$ 2,882,909 | 2.1% | 1.6% | |
| Years 45-64 | | 12,768 | 327 | 2.6% | 2.1% | \$ 199,077,544 | \$ 5,018,883 | 2.5% | 2.6% | |
| Years 65+ | | 2,083 | 31 | 1.5% | 1.4% | \$ 31,840,065 | \$ 718,476 | 2.3% | 2.0% | |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% | |

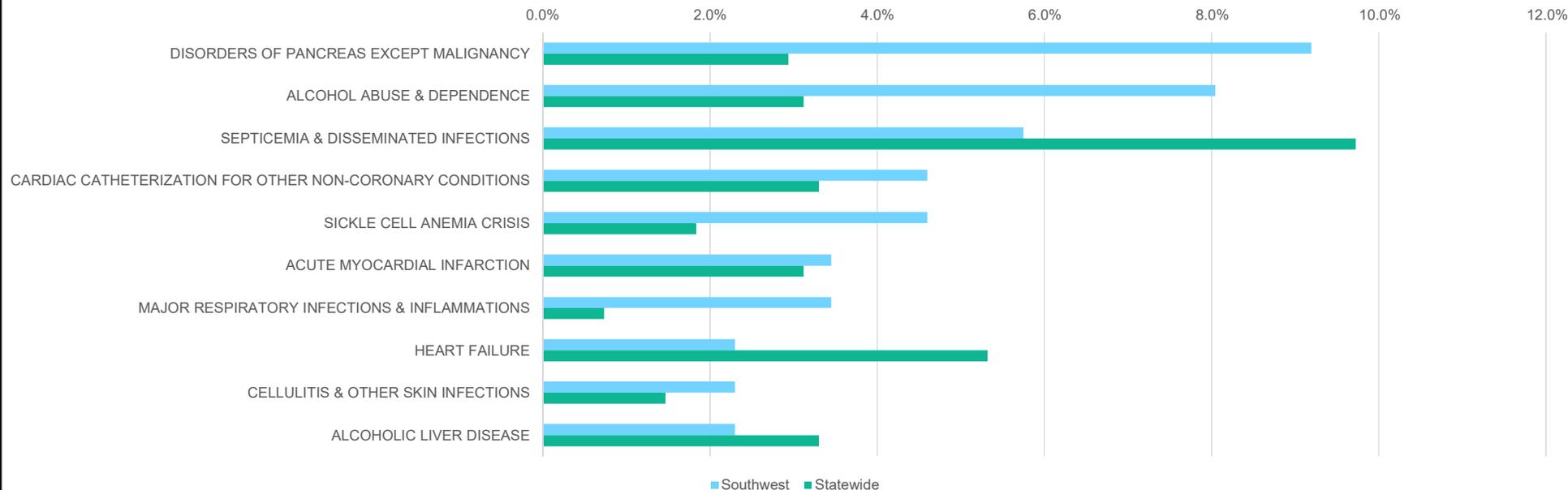


Appendix C

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southwest |

| Top 10 PAE by Zone | | | Southwest | | | | Statewide | | | |
|--------------------|---------|---|-----------|-------------------|---------------------|---------------------|------------|---------------------|---------------------|---------------------|
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 8 | \$ 38,613 | 9.2% | 2.5% | 16 | \$ 152,908 | 2.9% | 2.7% |
| 2 | 0775 | ALCOHOL ABUSE & DEPENDENCE | 7 | \$ 26,167 | 8.0% | 3.8% | 17 | \$ 71,722 | 3.1% | 3.5% |
| 3 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 5 | \$ 75,360 | 5.7% | 10.0% | 53 | \$ 1,291,583 | 9.7% | 10.2% |
| 4 | 0192 | CARDIAC CATHETERIZATION FOR OTHER NON-CORONARY CONDITIONS | 4 | \$ 113,381 | 4.6% | 0.0% | 18 | \$ 308,666 | 3.3% | 2.0% |
| 5 | 0662 | SICKLE CELL ANEMIA CRISIS | 4 | \$ 23,282 | 4.6% | 1.3% | 10 | \$ 58,156 | 1.8% | 1.5% |
| 6 | 0190 | ACUTE MYOCARDIAL INFARCTION | 3 | \$ 30,852 | 3.4% | 1.3% | 17 | \$ 346,146 | 3.1% | 0.5% |
| 7 | 0137 | MAJOR RESPIRATORY INFECTIONS & INFLAMMATIONS | 3 | \$ 22,133 | 3.4% | 2.5% | 4 | \$ 28,602 | 0.7% | 1.5% |
| 8 | 0194 | HEART FAILURE | 2 | \$ 86,978 | 2.3% | 0.0% | 29 | \$ 537,983 | 5.3% | 4.7% |
| 9 | 0383 | CELLULITIS & OTHER SKIN INFECTIONS | 2 | \$ 43,345 | 2.3% | 1.3% | 8 | \$ 130,026 | 1.5% | 1.0% |
| 10 | 0280 | ALCOHOLIC LIVER DISEASE | 2 | \$ 34,423 | 2.3% | 0.0% | 18 | \$ 317,604 | 3.3% | 1.7% |
| | | All Else | 47 | \$ 436,585 | 54.0% | 77.5% | 355 | \$ 5,449,126 | 65.1% | 70.6% |
| | | Total | 87 | \$ 931,119 | 100.0% | 100.0% | 545 | \$ 8,692,523 | 100.0% | 100.0% |

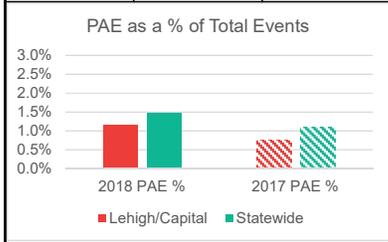
Top 10 PAE Based on Zone as a % of Total PAE



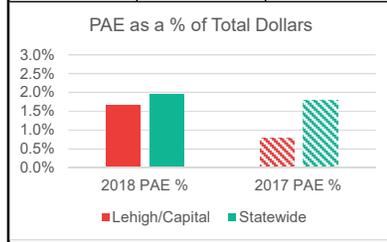
Appendix C

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| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Lehigh/Capital |

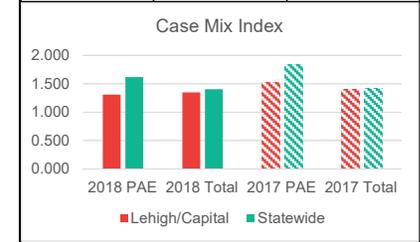
| 1. Total Events | | |
|-------------------|----------------|-------------|
| | Lehigh/Capital | Statewide |
| PAE | 103 | 545 |
| Total | 9,029 | 36,764 |
| 2018 PAE % | 1.1% | 1.5% |
| 2017 PAE % | 0.7% | 1.1% |



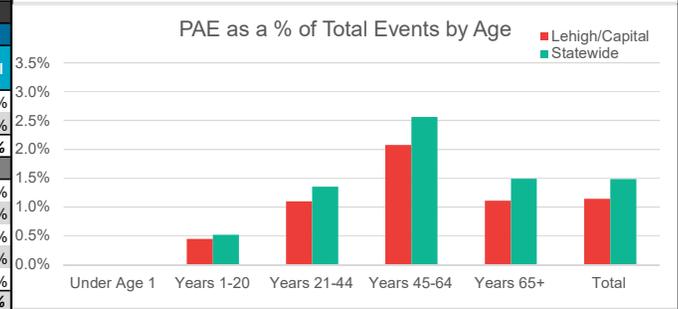
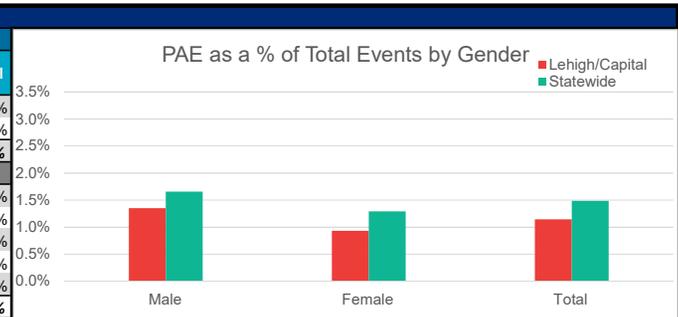
| 2. Total Dollars | | |
|-------------------|----------------|----------------|
| | Lehigh/Capital | Statewide |
| PAE | \$ 1,704,582 | \$ 8,692,523 |
| Total | \$ 102,833,845 | \$ 440,393,061 |
| 2018 PAE % | 1.7% | 2.0% |
| 2017 PAE % | 0.8% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|----------------|-----------|
| | Lehigh/Capital | Statewide |
| 2018 PAE | 1.310 | 1.619 |
| 2018 Total | 1.349 | 1.402 |
| 2017 PAE | 1.530 | 1.840 |
| 2017 Total | 1.411 | 1.414 |



| 4. Events and Dollars by Age Band and Gender | | | | | | | | | | |
|--|--------|---------------|------------|-----------------|-----------------|-----------------------|---------------------|-----------------|-----------------|--|
| Lehigh/Capital | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 4,517 | 61 | 1.4% | 0.8% | \$ 62,287,051 | \$ 889,275 | 1.4% | 0.6% | |
| All Ages | Female | 4,512 | 42 | 0.9% | 0.7% | \$ 40,546,794 | \$ 815,306 | 2.0% | 1.0% | |
| Total | | 9,029 | 103 | 1.1% | 0.7% | \$ 102,833,845 | \$ 1,704,582 | 1.7% | 0.8% | |
| Under Age 1 | | 1,968 | - | 0.0% | 0.0% | \$ 14,802,990 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 445 | 2 | 0.4% | 1.4% | \$ 3,594,307 | \$ 10,499 | 0.3% | 1.7% | |
| Years 21-44 | | 3,276 | 36 | 1.1% | 0.8% | \$ 33,244,131 | \$ 825,699 | 2.5% | 0.9% | |
| Years 45-64 | | 2,890 | 60 | 2.1% | 1.2% | \$ 44,696,852 | \$ 771,862 | 1.7% | 0.9% | |
| Years 65+ | | 450 | 5 | 1.1% | 0.8% | \$ 6,495,565 | \$ 96,522 | 1.5% | 0.6% | |
| Total | | 9,029 | 103 | 1.1% | 0.7% | \$ 102,833,845 | \$ 1,704,582 | 1.7% | 0.8% | |
| Statewide | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 19,205 | 318 | 1.7% | 1.3% | \$ 276,121,871 | \$ 4,817,708 | 1.7% | 1.8% | |
| All Ages | Female | 17,559 | 227 | 1.3% | 0.9% | \$ 164,271,190 | \$ 3,874,815 | 2.4% | 1.8% | |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% | |
| Under Age 1 | | 7,156 | - | 0.0% | 0.0% | \$ 53,389,128 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 1,545 | 8 | 0.5% | 0.7% | \$ 15,564,298 | \$ 72,254 | 0.5% | 0.5% | |
| Years 21-44 | | 13,212 | 179 | 1.4% | 0.9% | \$ 140,522,026 | \$ 2,882,909 | 2.1% | 1.6% | |
| Years 45-64 | | 12,768 | 327 | 2.6% | 2.1% | \$ 199,077,544 | \$ 5,018,883 | 2.5% | 2.6% | |
| Years 65+ | | 2,083 | 31 | 1.5% | 1.4% | \$ 31,840,065 | \$ 718,476 | 2.3% | 2.0% | |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% | |

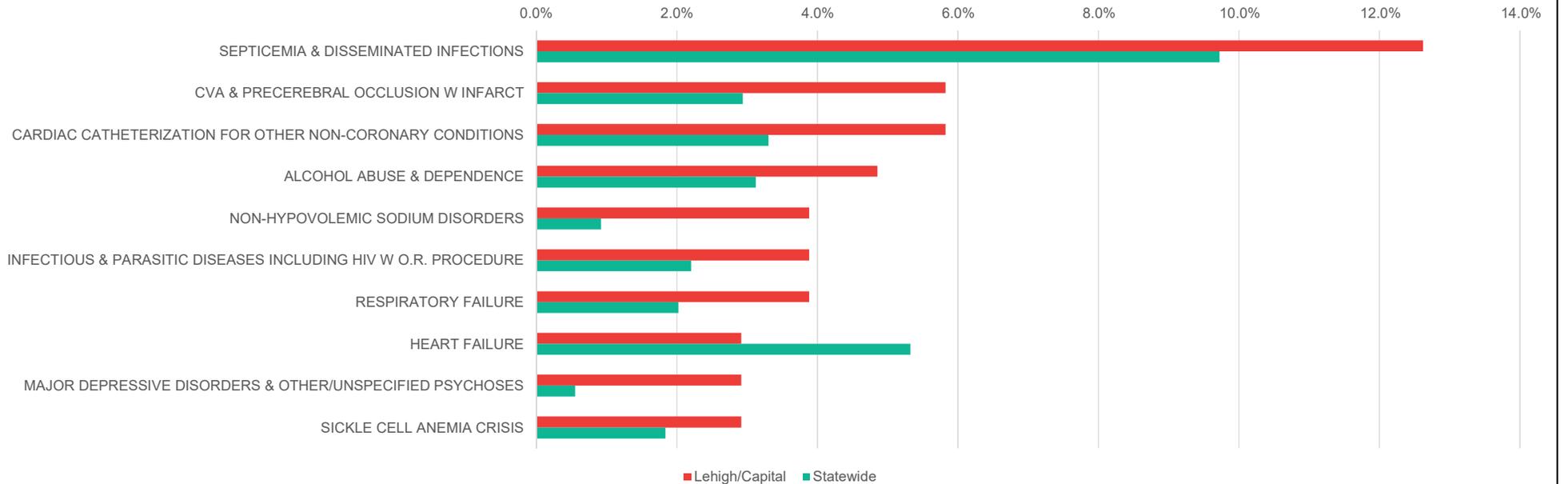


Appendix C

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| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Lehigh/Capital |

| 5. Events and Dollars by Top 10 APR-DRG | | | | | | | | | | |
|---|---------|--|----------------|---------------------|---------------------|---------------------|------------|---------------------|---------------------|---------------------|
| Top 10 PAE by Zone | | | Lehigh/Capital | | | | Statewide | | | |
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 13 | \$ 184,860 | 12.6% | 7.8% | 53 | \$ 1,291,583 | 9.7% | 10.2% |
| 2 | 0045 | CVA & PRECEREBRAL OCCLUSION W INFARCT | 6 | \$ 79,196 | 5.8% | 1.6% | 16 | \$ 206,239 | 2.9% | 1.2% |
| 3 | 0192 | CARDIAC CATHETERIZATION FOR OTHER NON-CORONARY CONDITIONS | 6 | \$ 75,018 | 5.8% | 4.7% | 18 | \$ 308,666 | 3.3% | 2.0% |
| 4 | 0775 | ALCOHOL ABUSE & DEPENDENCE | 5 | \$ 14,158 | 4.9% | 3.1% | 17 | \$ 71,722 | 3.1% | 3.5% |
| 5 | 0426 | NON-HYPOVOLEMIC SODIUM DISORDERS | 4 | \$ 55,661 | 3.9% | 0.0% | 5 | \$ 63,397 | 0.9% | 0.0% |
| 6 | 0710 | INFECTIOUS & PARASITIC DISEASES INCLUDING HIV W O.R. PROCEDURE | 4 | \$ 52,873 | 3.9% | 0.0% | 12 | \$ 131,393 | 2.2% | 2.7% |
| 7 | 0133 | RESPIRATORY FAILURE | 4 | \$ 29,950 | 3.9% | 4.7% | 11 | \$ 132,790 | 2.0% | 2.7% |
| 8 | 0194 | HEART FAILURE | 3 | \$ 82,322 | 2.9% | 6.3% | 29 | \$ 537,983 | 5.3% | 4.7% |
| 9 | 0751 | MAJOR DEPRESSIVE DISORDERS & OTHER/UNSPECIFIED PSYCHOSES | 3 | \$ 43,898 | 2.9% | 0.0% | 3 | \$ 43,898 | 0.6% | 0.0% |
| 10 | 0662 | SICKLE CELL ANEMIA CRISIS | 3 | \$ 15,960 | 2.9% | 4.7% | 10 | \$ 58,156 | 1.8% | 1.5% |
| | | All Else | 52 | \$ 1,070,686 | 50.5% | 67.2% | 371 | \$ 5,846,695 | 68.1% | 71.4% |
| | | Total | 103 | \$ 1,704,582 | 100.0% | 100.0% | 545 | \$ 8,692,523 | 100.0% | 100.0% |

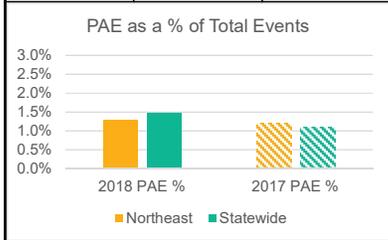
Top 10 PAE Based on Zone as a % of Total PAE



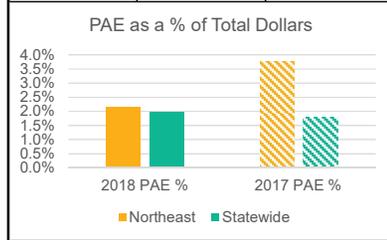
Appendix C

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|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northeast |

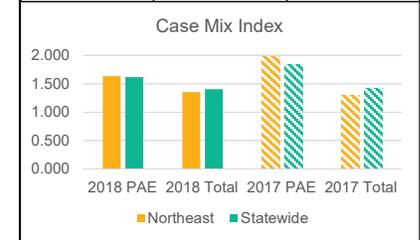
| 1. Total Events | | |
|-------------------|-------------|-------------|
| | Northeast | Statewide |
| PAE | 52 | 545 |
| Total | 4,047 | 36,764 |
| 2018 PAE % | 1.3% | 1.5% |
| 2017 PAE % | 1.2% | 1.1% |



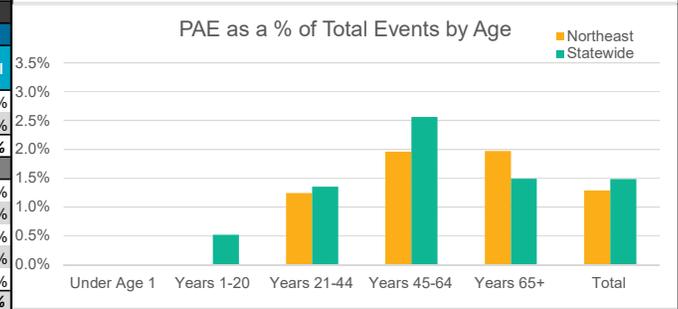
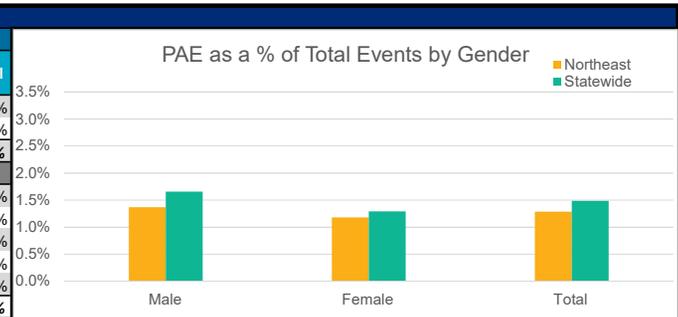
| 2. Total Dollars | | |
|-------------------|---------------|----------------|
| | Northeast | Statewide |
| PAE | \$ 866,976 | \$ 8,692,523 |
| Total | \$ 40,104,841 | \$ 440,393,061 |
| 2018 PAE % | 2.2% | 2.0% |
| 2017 PAE % | 3.8% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|-----------|-----------|
| | Northeast | Statewide |
| 2018 PAE | 1.633 | 1.619 |
| 2018 Total | 1.353 | 1.402 |
| 2017 PAE | 1.976 | 1.840 |
| 2017 Total | 1.303 | 1.414 |



| 4. Events and Dollars by Age Band and Gender | | | | | | | | | |
|--|--------|---------------|------------|-----------------|-----------------|-----------------------|---------------------|-----------------|-----------------|
| Northeast | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 2,267 | 31 | 1.4% | 1.3% | \$ 26,584,107 | \$ 471,745 | 1.8% | 4.7% |
| All Ages | Female | 1,780 | 21 | 1.2% | 1.0% | \$ 13,520,735 | \$ 395,231 | 2.9% | 2.2% |
| Total | | 4,047 | 52 | 1.3% | 1.2% | \$ 40,104,841 | \$ 866,976 | 2.2% | 3.8% |
| Under Age 1 | | 739 | - | 0.0% | 0.0% | \$ 2,475,299 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 156 | - | 0.0% | 0.6% | \$ 929,229 | \$ - | 0.0% | 0.3% |
| Years 21-44 | | 1,366 | 17 | 1.2% | 0.8% | \$ 12,919,599 | \$ 438,692 | 3.4% | 0.8% |
| Years 45-64 | | 1,583 | 31 | 2.0% | 2.1% | \$ 20,857,462 | \$ 364,406 | 1.7% | 6.3% |
| Years 65+ | | 203 | 4 | 2.0% | 2.1% | \$ 2,923,252 | \$ 63,878 | 2.2% | 4.1% |
| Total | | 4,047 | 52 | 1.3% | 1.2% | \$ 40,104,841 | \$ 866,976 | 2.2% | 3.8% |
| Statewide | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 19,205 | 318 | 1.7% | 1.3% | \$ 276,121,871 | \$ 4,817,708 | 1.7% | 1.8% |
| All Ages | Female | 17,559 | 227 | 1.3% | 0.9% | \$ 164,271,190 | \$ 3,874,815 | 2.4% | 1.8% |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% |
| Under Age 1 | | 7,156 | - | 0.0% | 0.0% | \$ 53,389,128 | \$ - | 0.0% | 0.0% |
| Years 1-20 | | 1,545 | 8 | 0.5% | 0.7% | \$ 15,564,298 | \$ 72,254 | 0.5% | 0.5% |
| Years 21-44 | | 13,212 | 179 | 1.4% | 0.9% | \$ 140,522,026 | \$ 2,882,909 | 2.1% | 1.6% |
| Years 45-64 | | 12,768 | 327 | 2.6% | 2.1% | \$ 199,077,544 | \$ 5,018,883 | 2.5% | 2.6% |
| Years 65+ | | 2,083 | 31 | 1.5% | 1.4% | \$ 31,840,065 | \$ 718,476 | 2.3% | 2.0% |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% |

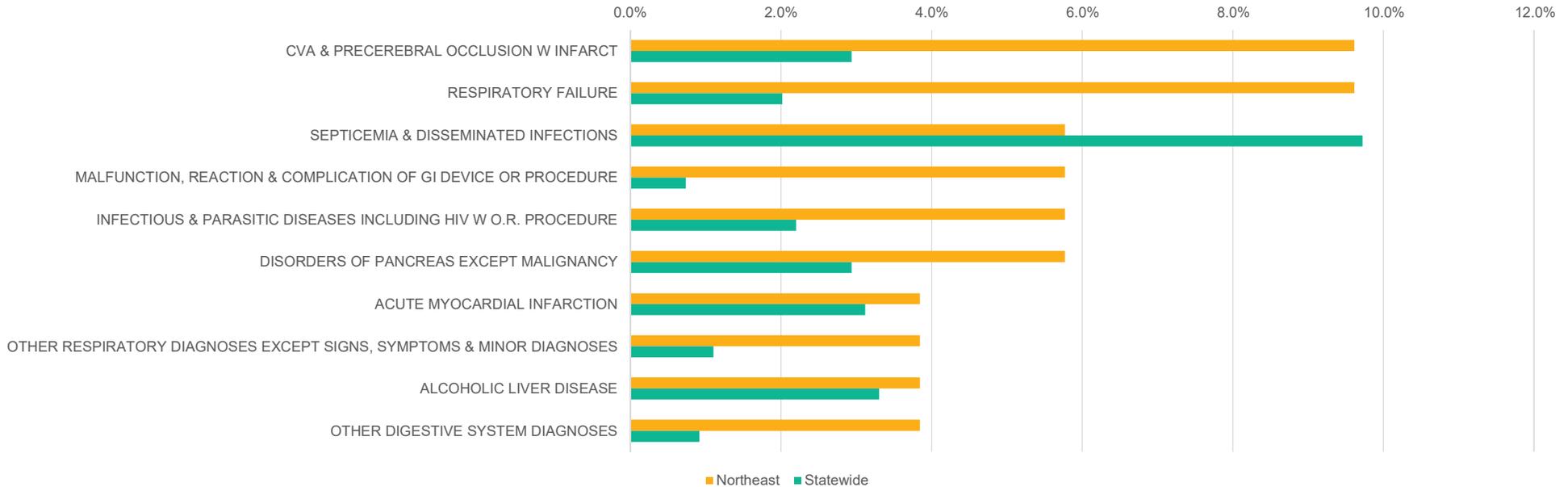


Appendix C

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| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northeast |

| Top 10 PAE by Zone | | | Northeast | | | | Statewide | | | |
|--------------------|---------|--|-----------|-------------------|---------------------|---------------------|------------|---------------------|---------------------|---------------------|
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0045 | CVA & PRECEREBRAL OCCLUSION W INFARCT | 5 | \$ 73,714 | 9.6% | 0.0% | 16 | \$ 206,239 | 2.9% | 1.2% |
| 2 | 0133 | RESPIRATORY FAILURE | 5 | \$ 59,862 | 9.6% | 0.0% | 11 | \$ 132,790 | 2.0% | 2.7% |
| 3 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 3 | \$ 321,368 | 5.8% | 8.7% | 53 | \$ 1,291,583 | 9.7% | 10.2% |
| 4 | 0252 | MALFUNCTION, REACTION & COMPLICATION OF GI DEVICE OR PROCEDURE | 3 | \$ 74,743 | 5.8% | 0.0% | 4 | \$ 85,314 | 0.7% | 0.2% |
| 5 | 0710 | INFECTIOUS & PARASITIC DISEASES INCLUDING HIV W O.R. PROCEDURE | 3 | \$ 25,424 | 5.8% | 6.5% | 12 | \$ 131,393 | 2.2% | 2.7% |
| 6 | 0282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 3 | \$ 22,098 | 5.8% | 2.2% | 16 | \$ 152,908 | 2.9% | 2.7% |
| 7 | 0190 | ACUTE MYOCARDIAL INFARCTION | 2 | \$ 56,217 | 3.8% | 2.2% | 17 | \$ 346,146 | 3.1% | 0.5% |
| 8 | 0143 | OTHER RESPIRATORY DIAGNOSES EXCEPT SIGNS, SYMPTOMS & MINOR DIAGNOSES | 2 | \$ 36,912 | 3.8% | 0.0% | 6 | \$ 80,797 | 1.1% | 0.0% |
| 9 | 0280 | ALCOHOLIC LIVER DISEASE | 2 | \$ 19,040 | 3.8% | 0.0% | 18 | \$ 317,604 | 3.3% | 1.7% |
| 10 | 0254 | OTHER DIGESTIVE SYSTEM DIAGNOSES | 2 | \$ 11,621 | 3.8% | 4.3% | 5 | \$ 46,060 | 0.9% | 2.2% |
| | | All Else | 22 | \$ 165,978 | 42.3% | 76.1% | 387 | \$ 5,901,687 | 71.0% | 75.6% |
| | | Total | 52 | \$ 866,976 | 100.0% | 100.0% | 545 | \$ 8,692,523 | 100.0% | 100.0% |

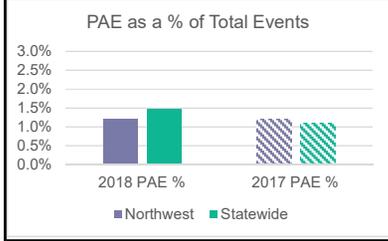
Top 10 PAE Based on Zone as a % of Total PAE



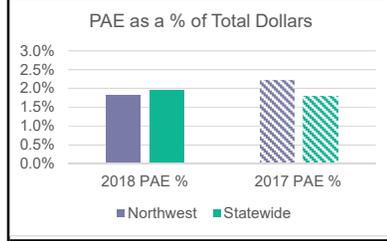
Appendix C

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northwest |

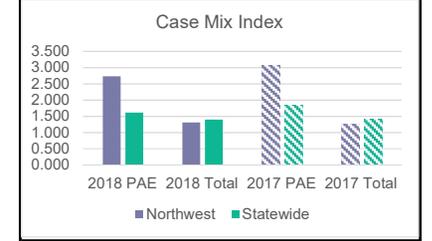
| 1. Total Events | | |
|-------------------|-------------|-------------|
| | Northwest | Statewide |
| PAE | 20 | 545 |
| Total | 1,657 | 36,764 |
| 2018 PAE % | 1.2% | 1.5% |
| 2017 PAE % | 1.2% | 1.1% |



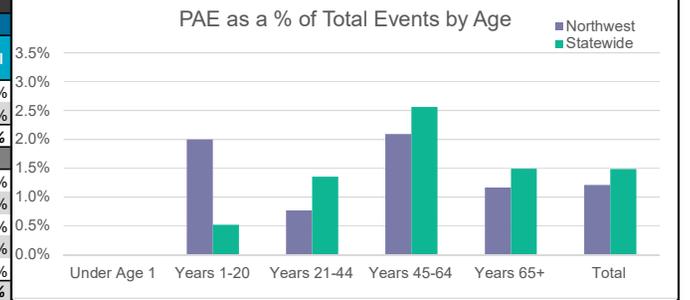
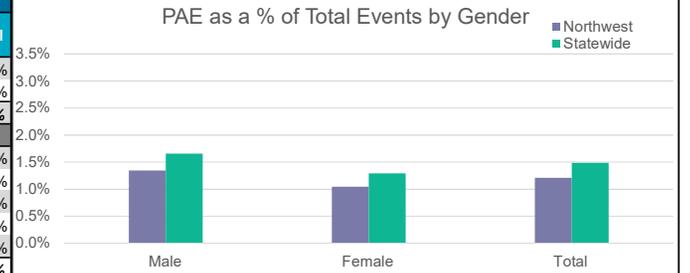
| 2. Total Dollars | | |
|-------------------|---------------|----------------|
| | Northwest | Statewide |
| PAE | \$ 281,966 | \$ 8,692,523 |
| Total | \$ 15,375,136 | \$ 440,393,061 |
| 2018 PAE % | 1.8% | 2.0% |
| 2017 PAE % | 2.2% | 1.8% |



| 3. APR-DRG Case Mix Index | | |
|---------------------------|-----------|-----------|
| | Northwest | Statewide |
| 2018 PAE | 2,734 | 1,619 |
| 2018 Total | 1,313 | 1,402 |
| 2017 PAE | 3,073 | 1,840 |
| 2017 Total | 1,263 | 1,414 |



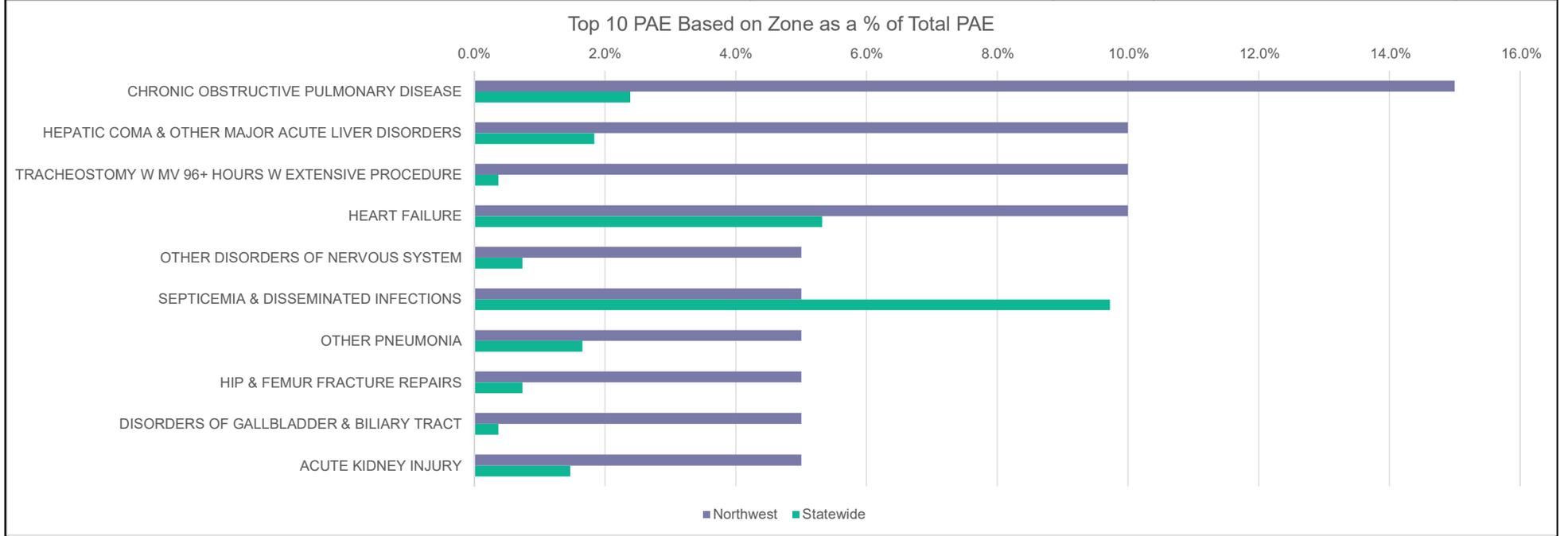
| 4. Events and Dollars by Age Band and Gender | | | | | | | | | | |
|--|--------|---------------|------------|-----------------|-----------------|-----------------------|---------------------|-----------------|-----------------|--|
| Northwest | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 891 | 12 | 1.3% | 1.6% | \$ 9,849,941 | \$ 123,450 | 1.3% | 1.9% | |
| All Ages | Female | 766 | 8 | 1.0% | 0.8% | \$ 5,525,195 | \$ 158,516 | 2.9% | 2.9% | |
| Total | | 1,657 | 20 | 1.2% | 1.2% | \$ 15,375,136 | \$ 281,966 | 1.8% | 2.2% | |
| Under Age 1 | | 330 | - | 0.0% | 0.0% | \$ 1,373,094 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 50 | 1 | 2.0% | 0.0% | \$ 159,253 | \$ 8,882 | 5.6% | 0.0% | |
| Years 21-44 | | 522 | 4 | 0.8% | 0.3% | \$ 3,882,463 | \$ 35,659 | 0.9% | 0.3% | |
| Years 45-64 | | 669 | 14 | 2.1% | 2.8% | \$ 8,856,964 | \$ 228,670 | 2.6% | 3.0% | |
| Years 65+ | | 86 | 1 | 1.2% | 1.3% | \$ 1,103,363 | \$ 8,755 | 0.8% | 6.4% | |
| Total | | 1,657 | 20 | 1.2% | 1.2% | \$ 15,375,136 | \$ 281,966 | 1.8% | 2.2% | |
| Statewide | | Events | | | | Dollars | | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total | |
| All Ages | Male | 19,205 | 318 | 1.7% | 1.3% | \$ 276,121,871 | \$ 4,817,708 | 1.7% | 1.8% | |
| All Ages | Female | 17,559 | 227 | 1.3% | 0.9% | \$ 164,271,190 | \$ 3,874,815 | 2.4% | 1.8% | |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% | |
| Under Age 1 | | 7,156 | - | 0.0% | 0.0% | \$ 53,389,128 | \$ - | 0.0% | 0.0% | |
| Years 1-20 | | 1,545 | 8 | 0.5% | 0.7% | \$ 15,564,298 | \$ 72,254 | 0.5% | 0.5% | |
| Years 21-44 | | 13,212 | 179 | 1.4% | 0.9% | \$ 140,522,026 | \$ 2,882,909 | 2.1% | 1.6% | |
| Years 45-64 | | 12,768 | 327 | 2.6% | 2.1% | \$ 199,077,544 | \$ 5,018,883 | 2.5% | 2.6% | |
| Years 65+ | | 2,083 | 31 | 1.5% | 1.4% | \$ 31,840,065 | \$ 718,476 | 2.3% | 2.0% | |
| Total | | 36,764 | 545 | 1.5% | 1.1% | \$ 440,393,061 | \$ 8,692,523 | 2.0% | 1.8% | |



Appendix C

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northwest |

| Top 10 PAE by Zone | | | Northwest | | | | Statewide | | | |
|--------------------|---------|---|-----------|-------------------|---------------------|---------------------|------------|---------------------|---------------------|---------------------|
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0140 | CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 3 | \$ 96,156 | 15.0% | 0.0% | 13 | \$ 331,123 | 2.4% | 3.7% |
| 2 | 0279 | HEPATIC COMA & OTHER MAJOR ACUTE LIVER DISORDERS | 2 | \$ 32,268 | 10.0% | 0.0% | 10 | \$ 112,549 | 1.8% | 1.0% |
| 3 | 0004 | TRACHEOSTOMY W MV 96+ HOURS W EXTENSIVE PROCEDURE | 2 | \$ 29,679 | 10.0% | 10.0% | 2 | \$ 29,679 | 0.4% | 1.2% |
| 4 | 0194 | HEART FAILURE | 2 | \$ 24,681 | 10.0% | 0.0% | 29 | \$ 537,983 | 5.3% | 4.7% |
| 5 | 0058 | OTHER DISORDERS OF NERVOUS SYSTEM | 1 | \$ 18,296 | 5.0% | 0.0% | 4 | \$ 34,902 | 0.7% | 0.0% |
| 6 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 1 | \$ 14,993 | 5.0% | 15.0% | 53 | \$ 1,291,583 | 9.7% | 10.2% |
| 7 | 0139 | OTHER PNEUMONIA | 1 | \$ 14,744 | 5.0% | 0.0% | 9 | \$ 114,561 | 1.7% | 1.5% |
| 8 | 0308 | HIP & FEMUR FRACTURE REPAIRS | 1 | \$ 9,063 | 5.0% | 0.0% | 4 | \$ 39,940 | 0.7% | 0.0% |
| 9 | 0284 | DISORDERS OF GALLBLADDER & BILIARY TRACT | 1 | \$ 8,882 | 5.0% | 5.0% | 2 | \$ 20,088 | 0.4% | 0.7% |
| 10 | 0469 | ACUTE KIDNEY INJURY | 1 | \$ 8,755 | 5.0% | 10.0% | 8 | \$ 81,020 | 1.5% | 2.5% |
| | | All Else | 5 | \$ 24,449 | 25.0% | 60.0% | 411 | \$ 6,099,095 | 75.4% | 74.4% |
| | | Total | 20 | \$ 281,966 | 100.0% | 100.0% | 545 | \$ 8,692,523 | 100.0% | 100.0% |



Appendix D

Potentially Avoidable Complications — FFS Beneficiaries

Contents

| Table # | Table Title |
|---------|---|
| 1 | Events by Potentially Avoidable Complications |

The table identified above is included for each zone. Zone results are displayed in the following order: Southeast, Southwest, Lehigh/Capital, Northeast and Northwest. This is the second year of the analysis; therefore, both CY 2018 and CY 2017 results are available and displayed as applicable.

Detailed Description of Tables

Table 1 — displays the total number and types of PACs. This value is displayed at both the zone and statewide level.

Additional Notes Regarding Data

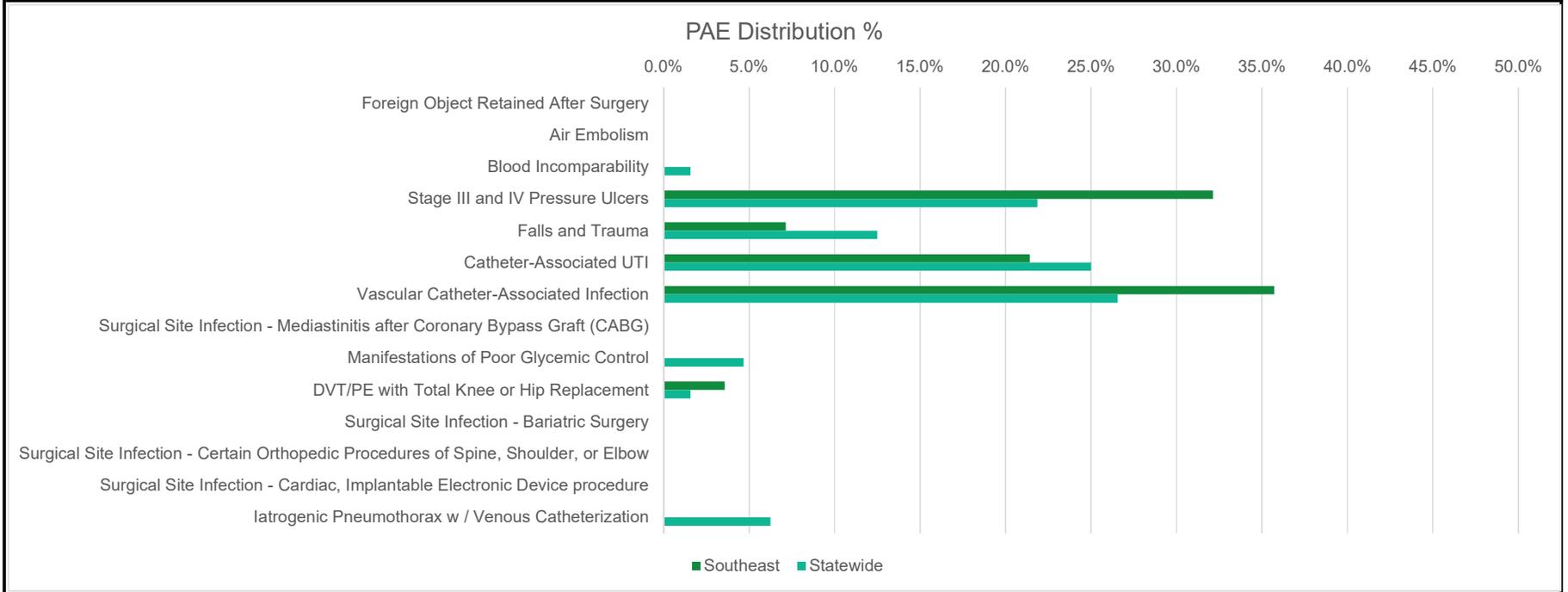
1. Admits and Dollars for CY 2018 service dates are based on FFS claims data submitted through September 30, 2019.
2. Inpatient is defined as acute inpatient hospital admissions.
3. HCACs are identified using the following process:
 - A. HCAC are identified using publicly available CMS diagnosis and procedure code criteria for FY 2018.

- B. Identified HCACs are then reviewed using POA criteria included on FFS claim data.
- 4. PAEs do not include claims with provider types other than "01" (Acute Care Hospital).
- 5. Beneficiaries eligible for Medicare Part D or Medicare Advantage are excluded from analysis.

Appendix D

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southeast |

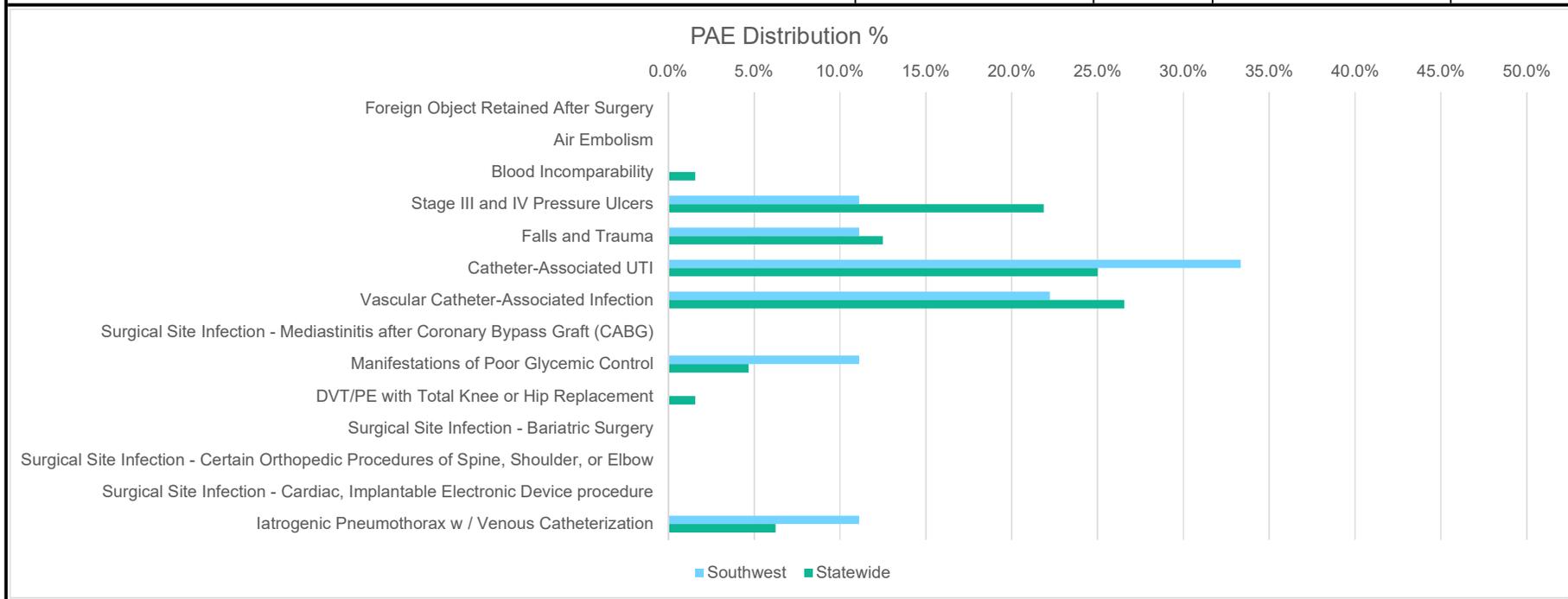
| 1. Events by Potentially Avoidable Complication | | Southeast | | | Statewide | | |
|---|--|-----------|---------------------|---------------------|-----------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | - | 0.0% | 4.2% | - | 0.0% | 1.9% |
| 2 | Air Embolism | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 3 | Blood Incomparability | - | 0.0% | 0.0% | 1 | 1.6% | 0.0% |
| 4 | Stage III and IV Pressure Ulcers | 9 | 32.1% | 20.8% | 14 | 21.9% | 20.8% |
| 5 | Falls and Trauma | 2 | 7.1% | 8.3% | 8 | 12.5% | 11.3% |
| 6 | Catheter-Associated UTI | 6 | 21.4% | 25.0% | 16 | 25.0% | 17.0% |
| 7 | Vascular Catheter-Associated Infection | 10 | 35.7% | 16.7% | 17 | 26.6% | 30.2% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 9 | Manifestations of Poor Glycemic Control | - | 0.0% | 16.7% | 3 | 4.7% | 13.2% |
| 10 | DVT/PE with Total Knee or Hip Replacement | 1 | 3.6% | 4.2% | 1 | 1.6% | 1.9% |
| 11 | Surgical Site Infection - Bariatric Surgery | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | - | 0.0% | 4.2% | 4 | 6.3% | 3.8% |
| Total | | 28 | 100.0% | 100.0% | 64 | 100.0% | 100.0% |



Appendix D

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Southwest |

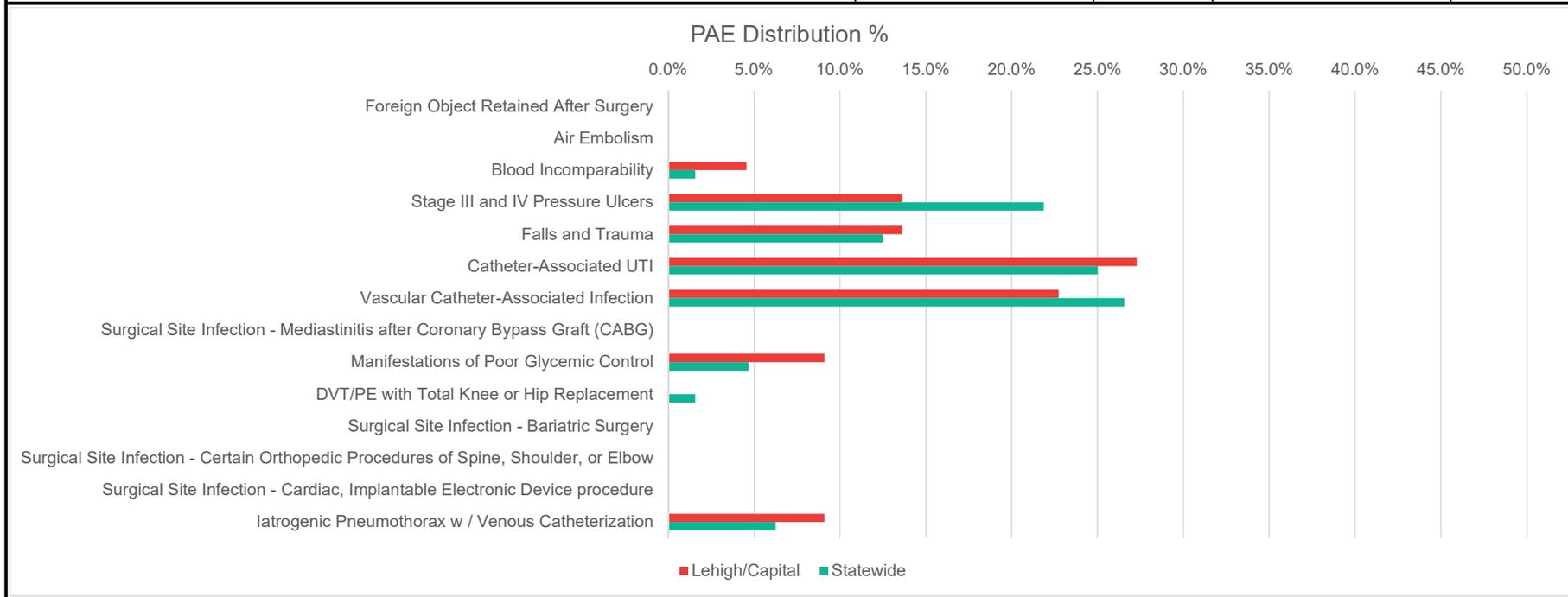
| 1. Events by Potentially Avoidable Complication | | Southwest | | | Statewide | | |
|---|--|-----------|---------------------|---------------------|-----------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | - | 0.0% | 0.0% | - | 0.0% | 1.9% |
| 2 | Air Embolism | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 3 | Blood Incomparability | - | 0.0% | 0.0% | 1 | 1.6% | 0.0% |
| 4 | Stage III and IV Pressure Ulcers | 1 | 11.1% | 14.3% | 14 | 21.9% | 20.8% |
| 5 | Falls and Trauma | 1 | 11.1% | 14.3% | 8 | 12.5% | 11.3% |
| 6 | Catheter-Associated UTI | 3 | 33.3% | 0.0% | 16 | 25.0% | 17.0% |
| 7 | Vascular Catheter-Associated Infection | 2 | 22.2% | 57.1% | 17 | 26.6% | 30.2% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 9 | Manifestations of Poor Glycemic Control | 1 | 11.1% | 14.3% | 3 | 4.7% | 13.2% |
| 10 | DVT/PE with Total Knee or Hip Replacement | - | 0.0% | 0.0% | 1 | 1.6% | 1.9% |
| 11 | Surgical Site Infection - Bariatric Surgery | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 1 | 11.1% | 0.0% | 4 | 6.3% | 3.8% |
| Total | | 9 | 100.0% | 100.0% | 64 | 100.0% | 100.0% |



Appendix D

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Lehigh/Capital |

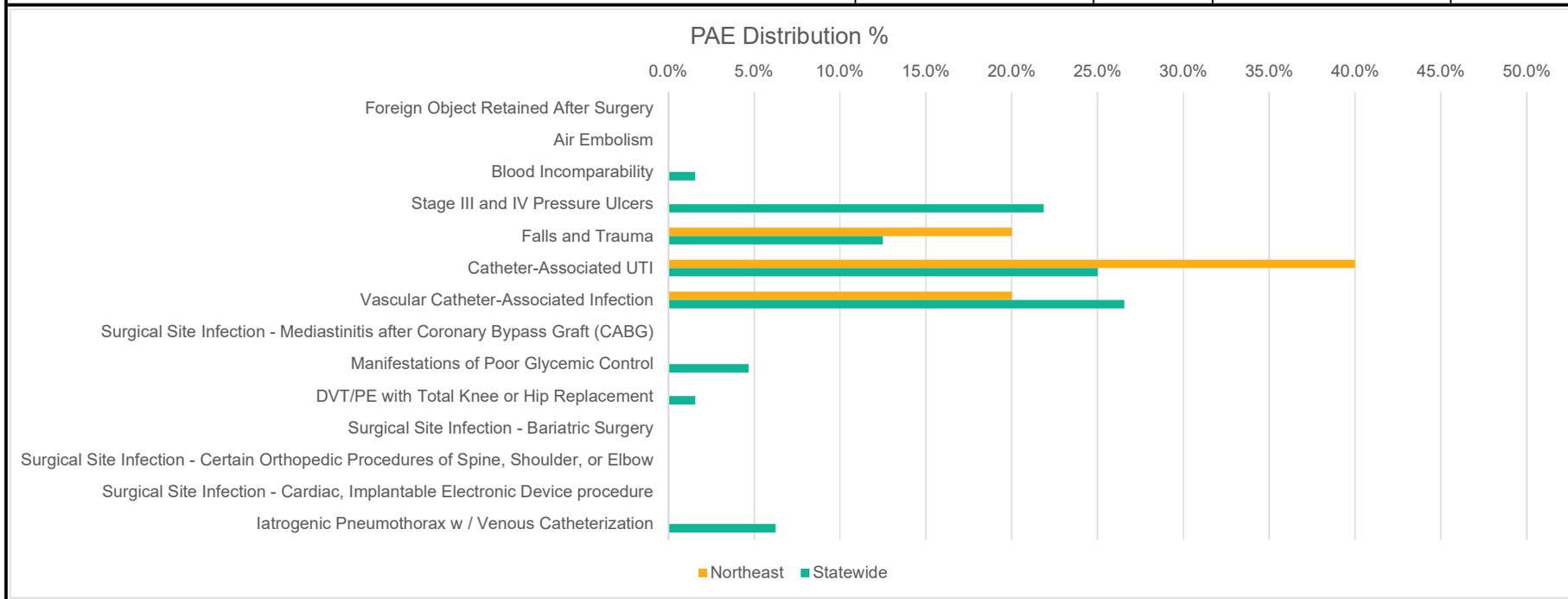
| 1. Events by Potentially Avoidable Complication | | Lehigh/Capital | | | Statewide | | |
|---|--|----------------|---------------------|---------------------|-----------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | - | 0.0% | 0.0% | - | 0.0% | 1.9% |
| 2 | Air Embolism | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 3 | Blood Incomparability | 1 | 4.5% | 0.0% | 1 | 1.6% | 0.0% |
| 4 | Stage III and IV Pressure Ulcers | 3 | 13.6% | 28.6% | 14 | 21.9% | 20.8% |
| 5 | Falls and Trauma | 3 | 13.6% | 14.3% | 8 | 12.5% | 11.3% |
| 6 | Catheter-Associated UTI | 6 | 27.3% | 7.1% | 16 | 25.0% | 17.0% |
| 7 | Vascular Catheter-Associated Infection | 5 | 22.7% | 28.6% | 17 | 26.6% | 30.2% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 9 | Manifestations of Poor Glycemic Control | 2 | 9.1% | 14.3% | 3 | 4.7% | 13.2% |
| 10 | DVT/PE with Total Knee or Hip Replacement | - | 0.0% | 0.0% | 1 | 1.6% | 1.9% |
| 11 | Surgical Site Infection - Bariatric Surgery | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 2 | 9.1% | 7.1% | 4 | 6.3% | 3.8% |
| Total | | 22 | 100.0% | 100.0% | 64 | 100.0% | 100.0% |



Appendix D

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northeast |

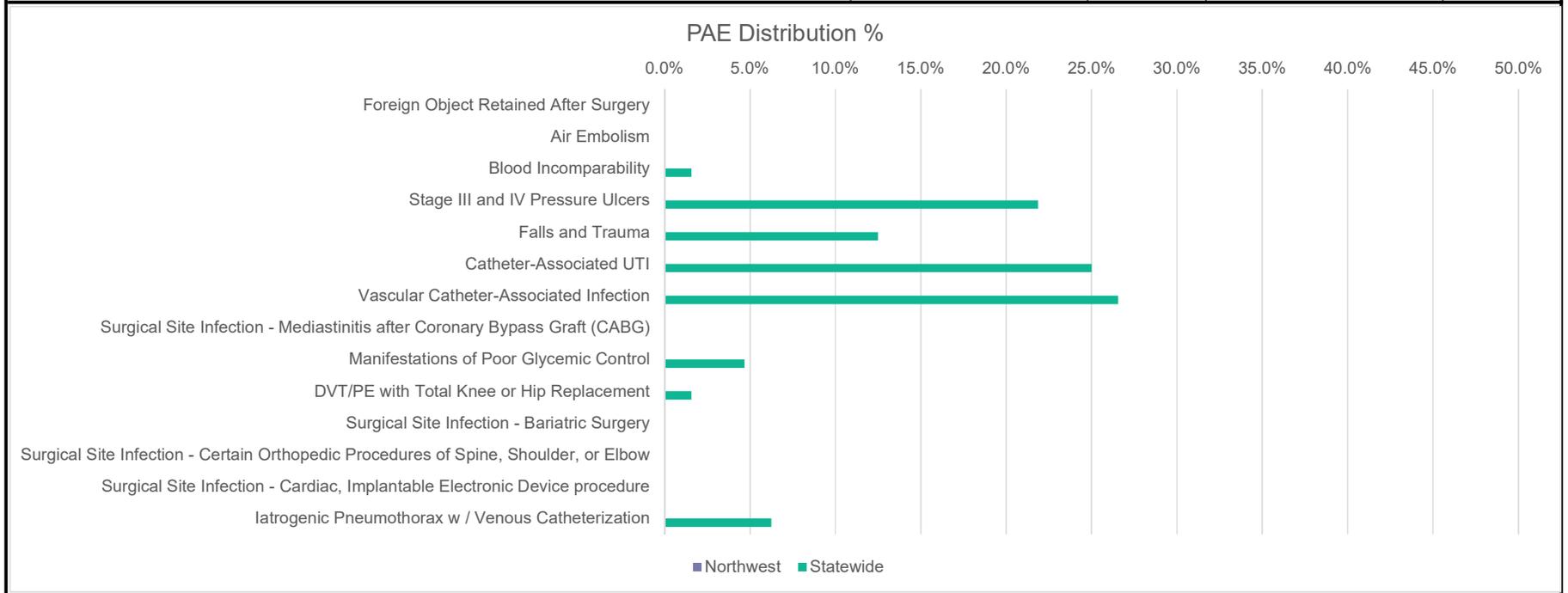
| 1. Events by Potentially Avoidable Complication | | Northeast | | | Statewide | | |
|---|--|-----------|---------------------|---------------------|-----------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | - | 0.0% | 0.0% | - | 0.0% | 1.9% |
| 2 | Air Embolism | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 3 | Blood Incomparability | - | 0.0% | 0.0% | 1 | 1.6% | 0.0% |
| 4 | Stage III and IV Pressure Ulcers | 1 | 20.0% | 20.0% | 14 | 21.9% | 20.8% |
| 5 | Falls and Trauma | 2 | 40.0% | 0.0% | 8 | 12.5% | 11.3% |
| 6 | Catheter-Associated UTI | 1 | 20.0% | 20.0% | 16 | 25.0% | 17.0% |
| 7 | Vascular Catheter-Associated Infection | - | 0.0% | 60.0% | 17 | 26.6% | 30.2% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 9 | Manifestations of Poor Glycemic Control | - | 0.0% | 0.0% | 3 | 4.7% | 13.2% |
| 10 | DVT/PE with Total Knee or Hip Replacement | - | 0.0% | 0.0% | 1 | 1.6% | 1.9% |
| 11 | Surgical Site Infection - Bariatric Surgery | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 1 | 20.0% | 0.0% | 4 | 6.3% | 3.8% |
| Total | | 5 | 100.0% | 100.0% | 64 | 100.0% | 100.0% |



Appendix D

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Zone: | Northwest |

| 1. Events by Potentially Avoidable Complication | | Northwest | | | Statewide | | |
|---|--|-----------|---------------------|---------------------|-----------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | - | 0.0% | 0.0% | - | 0.0% | 1.9% |
| 2 | Air Embolism | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 3 | Blood Incomparability | - | 0.0% | 0.0% | 1 | 1.6% | 0.0% |
| 4 | Stage III and IV Pressure Ulcers | - | 0.0% | 0.0% | 14 | 21.9% | 20.8% |
| 5 | Falls and Trauma | - | 0.0% | 33.3% | 8 | 12.5% | 11.3% |
| 6 | Catheter-Associated UTI | - | 0.0% | 33.3% | 16 | 25.0% | 17.0% |
| 7 | Vascular Catheter-Associated Infection | - | 0.0% | 33.3% | 17 | 26.6% | 30.2% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 9 | Manifestations of Poor Glycemic Control | - | 0.0% | 0.0% | 3 | 4.7% | 13.2% |
| 10 | DVT/PE with Total Knee or Hip Replacement | - | 0.0% | 0.0% | 1 | 1.6% | 1.9% |
| 11 | Surgical Site Infection - Bariatric Surgery | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | - | 0.0% | 0.0% | - | 0.0% | 0.0% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | - | 0.0% | 0.0% | 4 | 6.3% | 3.8% |
| Total | | - | 0.0% | 100.0% | 64 | 100.0% | 100.0% |



Appendix E

Glossary

| | |
|---------------------------|---|
| APR-DRGs | All Patient Refined-Diagnosis Related Groups. A version of diagnosis related groups that further subdivide the diagnosis related groups into four severity-of-illness and four risk-of-mortality subclasses within each Diagnosis Related Group. |
| Beneficiary | A person eligible to receive services in the MA Program of the Commonwealth of Pennsylvania. |
| CHC | Community HealthChoices. A mandatory managed care program that uses MCOs to coordinate and pay for physical health care and long-term services and supports for beneficiaries who are dually eligible for Medicare and Medicaid and those who require a nursing facility level of care. |
| Claim Data | An invoice for services or goods rendered by a provider or supplier to a beneficiary and presented by the provider, supplier, or his/her/its representative directly to the state (or an administrative services only claims processing vendor) for reimbursement because the service is not (or is at least not known at the time to be) covered under a managed care arrangement under the authority of 42 CFR 438. |
| CMS | Centers for Medicare & Medicaid Services. The federal agency within the Department of Health and Human Services responsible for oversight of Medicaid Programs. |
| Department | The Department of Human Services of the Commonwealth of Pennsylvania. |
| Diagnostic Related Groups | A classification system that uses patient discharge information to classify patients into clinically meaningful groups. |
| Encounter Data | A record submitted by the MCO to the Department of a covered health care service provided to a MCO member. |

| | |
|---------------------------|---|
| FFS | Fee-for-service. The delivery system in which the Department pays providers on a per-service basis for health care services provided to beneficiaries. |
| Gender | Gender identified within the Department’s eligibility system. |
| HCAC | Health Care Acquired Condition. A condition occurring in any inpatient hospital setting, identified as a Hospital Acquired Condition by the Secretary of Health and Human Services for purposes of the Medicare program. This includes medical complications or conditions that were not present when the patient was admitted to the hospital. |
| Hospital | A public or private institution licensed as a hospital under the laws of the Commonwealth that participates in the MA program. |
| Hospital Outcomes Program | A program designed to provide a hospital with information to reduce PAEs and further increase efficiency in the delivery of MA hospital services. |
| MA | Medical Assistance. The acronym by which the Commonwealth’s Medicaid program, authorized under Article IV of the Public Welfare Code (62 P. S. §§ 401–488), is known. |
| MCO | Managed care organization. A licensed managed care organization with whom the Department has an agreement to provide or arrange for services to a Medicaid beneficiary. |
| Medicaid program | The joint federal and state program through which health care services are provided to eligible beneficiaries in conformation with Title XIX of the Social Security Act (42 U.S.C.A. §§ 1396–1396q) and regulations issued under it. |
| OPPC | Other Provider Preventable Conditions. A condition occurring in any health care setting that meets the following criteria: <ul style="list-style-type: none"> • Is identified in the State plan. |

| | |
|-----|--|
| | <ul style="list-style-type: none"> • Has been found by the State, based upon a review of medical literature by qualified professionals, to be reasonably preventable through the application of procedures supported by evidence-based guidelines. • Has a negative consequence for the beneficiary. • Is auditable. • Includes, at a minimum, the following: <ul style="list-style-type: none"> – Wrong surgical or other invasive procedure performed on a patient. – Surgical or other invasive procedures performed on the wrong body part. – Surgical or other invasive procedure performed on the wrong patient. |
| PAA | Potentially avoidable admission. An admission of an individual to a hospital or long-term care facility, which may have reasonably been prevented with adequate access to ambulatory care or health care coordination. |
| PAC | <p>Potentially Avoidable Complication. A harmful event or negative outcome with respect to an individual, including an infection or surgical complication, that:</p> <ul style="list-style-type: none"> • Occurs after the person's admission to a hospital or long-term care facility. • May have resulted from the care, lack of care or treatment provided during the hospital or long-term care facility stay, rather than from a natural progression of an underlying disease. |
| PAE | <p>Potentially Avoidable Event. Any of the following:</p> <ul style="list-style-type: none"> • A potentially avoidable admission. • A potentially avoidable complication. • A potentially avoidable emergency visit. • A potentially avoidable readmission. • A combination of the events listed under this definition. |

| | |
|------------------|--|
| PAR | <p>Potentially Avoidable Readmission. A return hospitalization of an individual within a period specified by the Department that may have resulted from a deficiency in the care or treatment provided to the individual during a previous hospital stay or from a deficiency in post hospital discharge follow up. The term does not include a hospital readmission necessitated by the occurrence of unrelated events after the discharge. The term includes the readmission of an individual to a hospital for:</p> <ul style="list-style-type: none"> • The same condition or procedure for which the individual was previously admitted. • An infection or other complication resulting from care previously provided. • A condition or procedure indicating that a surgical intervention performed during a previous admission was unsuccessful in achieving the anticipated outcome. |
| PAV | <p>Potentially avoidable emergency visit. Treatment of an individual in a hospital emergency room or freestanding emergency medical care facility for a condition that may not require emergency medical attention because the condition could be or could have been treated or prevented by a physician or other health care provider in a nonemergency setting.</p> |
| PH HealthChoices | <p>The mandatory managed care program that uses MA MCOs to coordinate and pay for physical health services.</p> |
| POA | <p>Present on Admission. POA is a condition that is present at the time the order for inpatient admission occurs.</p> |
| PPC | <p>Provider Preventable Condition. A condition that meets the definition of a health care-acquired condition or other provider-preventable condition as defined in 42 C.F.R. § 447.26(b).</p> |
| PROMISe | <p>Provider Reimbursement and Operations Management Information System. The Department's Medicaid Management Information System which is the CMS certified information system.</p> |

Appendix F

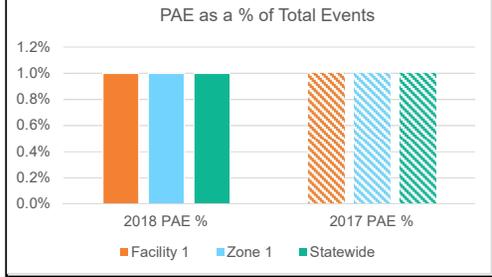
Hospital Report Template — MCO Beneficiaries

Data labeled as “Facility 1” does not represent actual individual hospital results, and is for demonstration purposes only of the information that will be provided to each hospital.

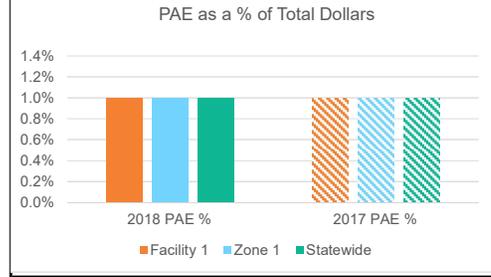
Appendix F Template for Demonstration Only

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Facility: | Facility 1 |

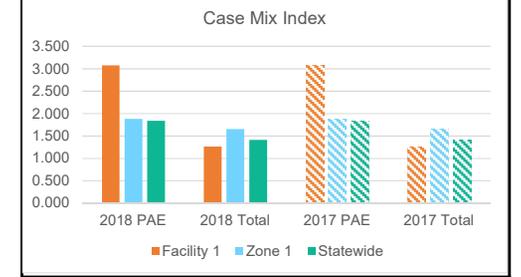
| 1. Total Events | | | |
|-----------------|------------|--------|-----------|
| | Facility 1 | Zone 1 | Statewide |
| 2018 PAE | 20 | 200 | 300 |
| 2018 Total | 2,000 | 20,000 | 30,000 |
| 2018 PAE % | 1.0% | 1.0% | 1.0% |
| 2017 PAE % | 1.0% | 1.0% | 1.0% |



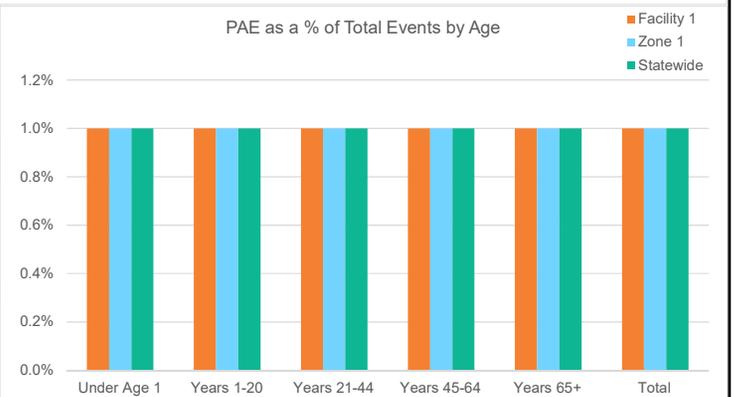
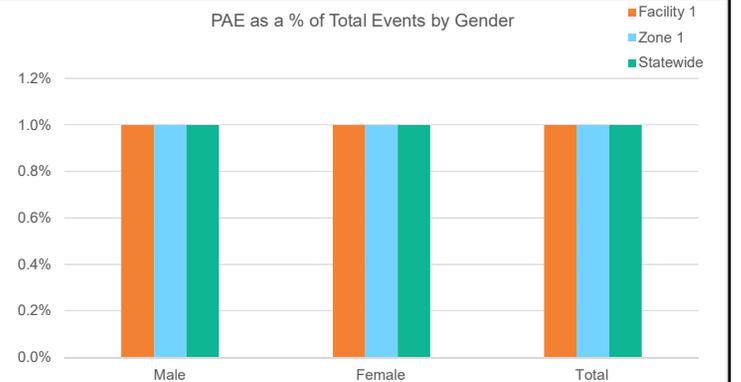
| 2. Total Dollars | | | |
|------------------|---------------|----------------|----------------|
| | Facility 1 | Zone 1 | Statewide |
| 2018 PAE | \$ 320,000 | \$ 3,200,000 | \$ 4,800,000 |
| 2018 Total | \$ 32,000,000 | \$ 320,000,000 | \$ 480,000,000 |
| 2018 PAE % | 1.0% | 1.0% | 1.0% |
| 2017 PAE % | 1.0% | 1.0% | 1.0% |



| 3. APR-DRG Case Mix Index | | | |
|---------------------------|------------|--------|-----------|
| | Facility 1 | Zone 1 | Statewide |
| 2018 PAE | 3.073 | 1.883 | 1.840 |
| 2018 Total | 1.263 | 1.660 | 1.414 |
| 2017 PAE | 3.073 | 1.883 | 1.840 |
| 2017 Total | 1.263 | 1.660 | 1.414 |



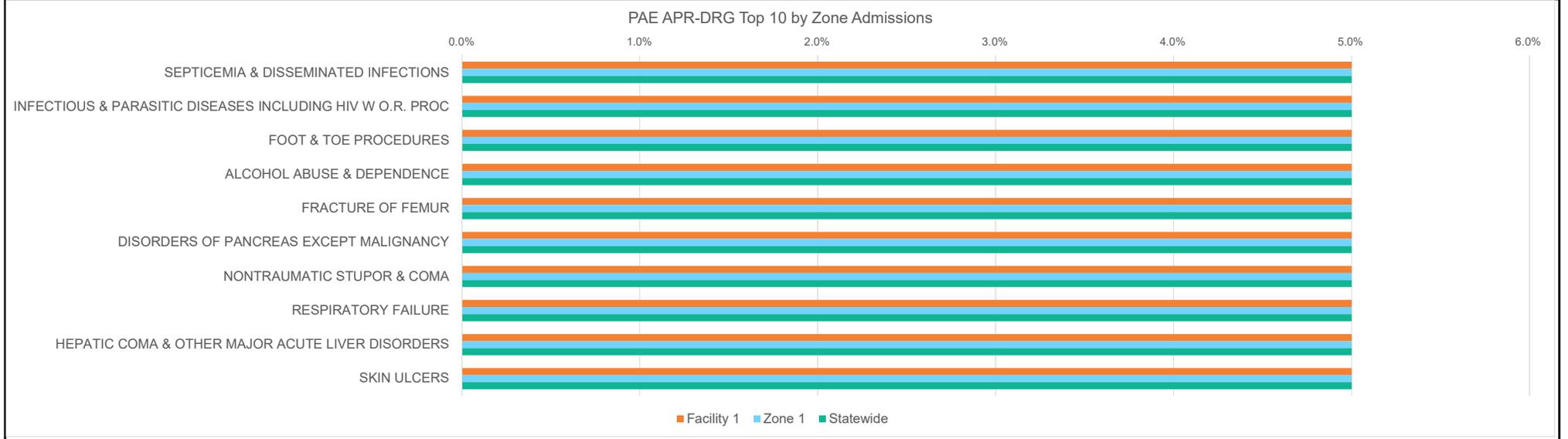
| 4. Events and Dollars by Age Band and Gender | | | | | | | | | |
|--|--------|---------------|------------|-----------------|-----------------|-----------------------|---------------------|-----------------|-----------------|
| Facility 1 | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 1,000 | 10 | 1.0% | 1.0% | \$ 16,000,000 | \$ 160,000 | 1.0% | 1.0% |
| All Ages | Female | 1,000 | 10 | 1.0% | 1.0% | \$ 16,000,000 | \$ 160,000 | 1.0% | 1.0% |
| Total | | 2,000 | 20 | 1.0% | 1.0% | \$ 32,000,000 | \$ 320,000 | 1.0% | 1.0% |
| Under Age 1 | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Years 1-20 | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Years 21-44 | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Years 45-64 | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Years 65+ | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Total | | 2,000 | 20 | 1.0% | 1.0% | \$ 32,000,000 | \$ 320,000 | 1.0% | 1.0% |
| Zone 1 | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 10,000 | 100 | 1.0% | 1.0% | \$ 160,000,000 | \$ 1,600,000 | 1.0% | 1.0% |
| All Ages | Female | 10,000 | 100 | 1.0% | 1.0% | \$ 160,000,000 | \$ 1,600,000 | 1.0% | 1.0% |
| Total | | 20,000 | 200 | 1.0% | 1.0% | \$ 320,000,000 | \$ 3,200,000 | 1.0% | 1.0% |
| Under Age 1 | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Years 1-20 | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Years 21-44 | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Years 45-64 | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Years 65+ | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Total | | 20,000 | 200 | 1.0% | 1.0% | \$ 320,000,000 | \$ 3,200,000 | 1.0% | 1.0% |
| Statewide | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 15,000 | 150 | 1.0% | 1.0% | \$ 240,000,000 | \$ 2,400,000 | 1.0% | 1.0% |
| All Ages | Female | 15,000 | 150 | 1.0% | 1.0% | \$ 240,000,000 | \$ 2,400,000 | 1.0% | 1.0% |
| Total | | 30,000 | 300 | 1.0% | 1.0% | \$ 480,000,000 | \$ 4,800,000 | 1.0% | 1.0% |
| Under Age 1 | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Years 1-20 | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Years 21-44 | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Years 45-64 | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Years 65+ | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Total | | 30,000 | 300 | 1.0% | 1.0% | \$ 480,000,000 | \$ 4,800,000 | 1.0% | 1.0% |



Appendix F Template for Demonstration Only

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Facility: | Facility 1 |

| 5. Events and Dollars by Top 10 APR-DRG | | | | | | | | | | | | | | |
|---|---------|---|------------|-------------------|---------------------|---------------------|------------|---------------------|---------------------|---------------------|------------|---------------------|---------------------|---------------------|
| Top 10 PAE by Zone | | | Facility 1 | | | | Zone 1 | | | | Statewide | | | |
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 2 | 0710 | INFECTIOUS & PARASITIC DISEASES INCLUDING HIV W O.R. PROC | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 3 | 0314 | FOOT & TOE PROCEDURES | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 4 | 0775 | ALCOHOL ABUSE & DEPENDENCE | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 5 | 0340 | FRACTURE OF FEMUR | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 6 | 0282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 7 | 0052 | NONTRAUMATIC STUPOR & COMA | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 8 | 0133 | RESPIRATORY FAILURE | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 9 | 0279 | HEPATIC COMA & OTHER MAJOR ACUTE LIVER DISORDERS | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 10 | 0380 | SKIN ULCERS | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| All Else | | | 10 | \$ 160,000 | 50.0% | 50.0% | 100 | \$ 1,600,000 | 50.0% | 50.0% | 150 | \$ 2,400,000 | 50.0% | 50.0% |
| Total | | | 20 | \$ 320,000 | 100.0% | 100.0% | 200 | \$ 3,200,000 | 100.0% | 100.0% | 300 | \$ 4,800,000 | 100.0% | 100.0% |



Appendix F Template for Demonstration Only

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Physical Health HealthChoices |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Facility: | Facility 1 |

| 1. Events by Potentially Avoidable Complication | | Facility 1 | | | Zone 1 | | | Statewide | | |
|---|--|------------|---------------------|---------------------|-----------|---------------------|---------------------|-----------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 2 | Air Embolism | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 3 | Blood Incomparability | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 4 | Stage III and IV Pressure Ulcers | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 5 | Falls and Trauma | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 6 | Catheter-Associated UTI | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 7 | Vascular Catheter-Associated Infection | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 9 | Manifestations of Poor Glycemic Control | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 10 | DVT/PE with Total Knee or Hip Replacement | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 11 | Surgical Site Infection - Bariatric Surgery | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| Total | | 14 | 100.0% | 100.0% | 28 | 100.0% | 100.0% | 42 | 100.0% | 100.0% |



Appendix G

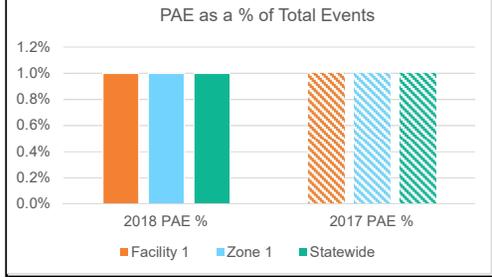
Hospital Report Template — FFS Beneficiaries

Data labeled as “Facility 1” does not represent actual individual hospital results, and is for demonstration purposes only of the information that will be provided to each hospital.

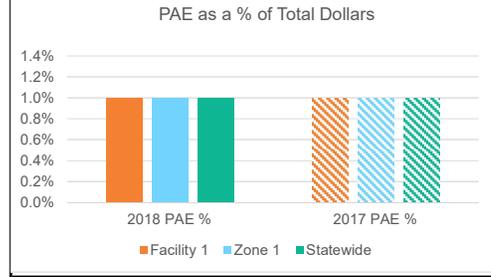
Appendix G Template for Demonstration Only

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Facility: | Facility 1 |

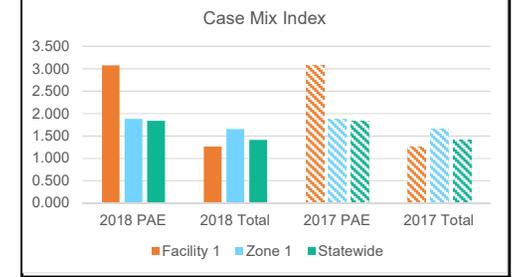
| 1. Total Events | | | |
|-----------------|------------|--------|-----------|
| | Facility 1 | Zone 1 | Statewide |
| 2018 PAE | 20 | 200 | 300 |
| 2018 Total | 2,000 | 20,000 | 30,000 |
| 2018 PAE % | 1.0% | 1.0% | 1.0% |
| 2017 PAE % | 1.0% | 1.0% | 1.0% |



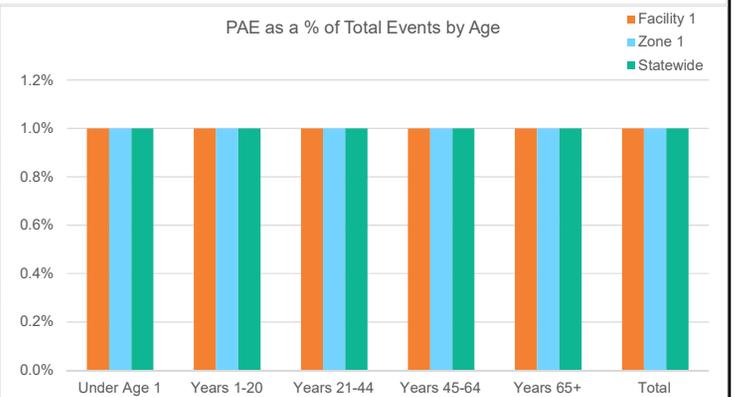
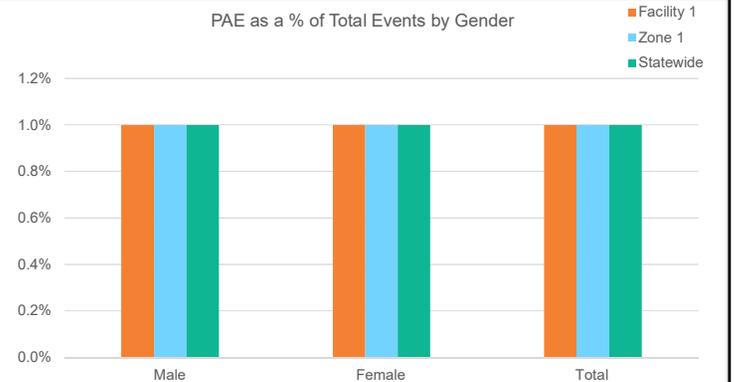
| 2. Total Dollars | | | |
|------------------|---------------|----------------|----------------|
| | Facility 1 | Zone 1 | Statewide |
| 2018 PAE | \$ 320,000 | \$ 3,200,000 | \$ 4,800,000 |
| 2018 Total | \$ 32,000,000 | \$ 320,000,000 | \$ 480,000,000 |
| 2018 PAE % | 1.0% | 1.0% | 1.0% |
| 2017 PAE % | 1.0% | 1.0% | 1.0% |



| 3. APR-DRG Case Mix Index | | | |
|---------------------------|------------|--------|-----------|
| | Facility 1 | Zone 1 | Statewide |
| 2018 PAE | 3.073 | 1.883 | 1.840 |
| 2018 Total | 1.263 | 1.660 | 1.414 |
| 2017 PAE | 3.073 | 1.883 | 1.840 |
| 2017 Total | 1.263 | 1.660 | 1.414 |



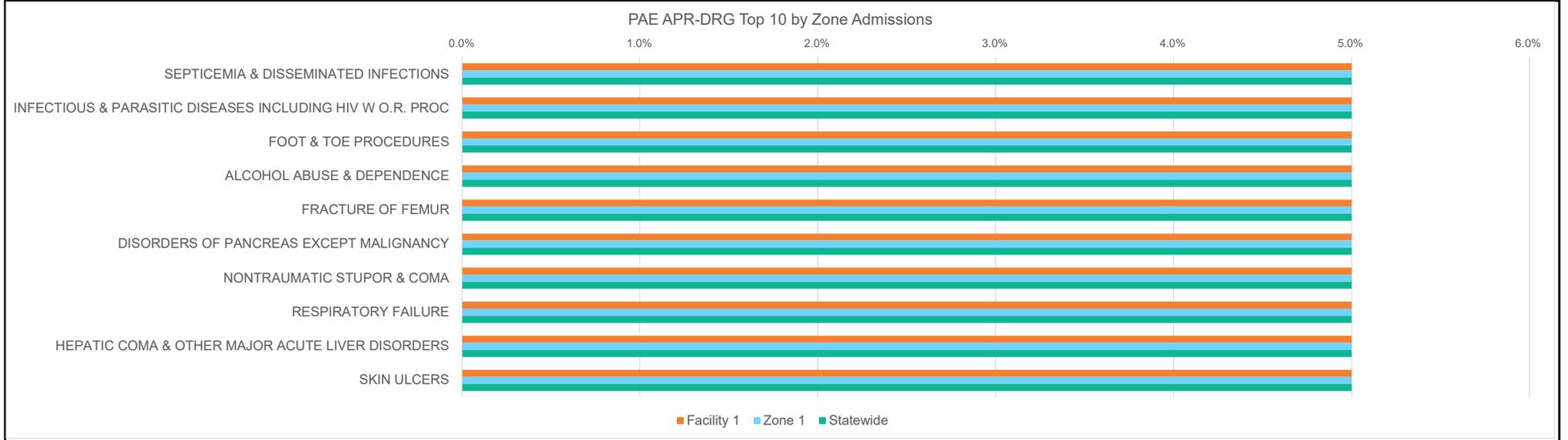
| 4. Events and Dollars by Age Band and Gender | | | | | | | | | |
|--|--------|---------------|------------|-----------------|-----------------|-----------------------|---------------------|-----------------|-----------------|
| Facility 1 | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 1,000 | 10 | 1.0% | 1.0% | \$ 16,000,000 | \$ 160,000 | 1.0% | 1.0% |
| All Ages | Female | 1,000 | 10 | 1.0% | 1.0% | \$ 16,000,000 | \$ 160,000 | 1.0% | 1.0% |
| Total | | 2,000 | 20 | 1.0% | 1.0% | \$ 32,000,000 | \$ 320,000 | 1.0% | 1.0% |
| Under Age 1 | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Years 1-20 | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Years 21-44 | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Years 45-64 | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Years 65+ | | 400 | 4 | 1.0% | 1.0% | \$ 6,400,000 | \$ 64,000 | 1.0% | 1.0% |
| Total | | 2,000 | 20 | 1.0% | 1.0% | \$ 32,000,000 | \$ 320,000 | 1.0% | 1.0% |
| Zone 1 | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 10,000 | 100 | 1.0% | 1.0% | \$ 160,000,000 | \$ 1,600,000 | 1.0% | 1.0% |
| All Ages | Female | 10,000 | 100 | 1.0% | 1.0% | \$ 160,000,000 | \$ 1,600,000 | 1.0% | 1.0% |
| Total | | 20,000 | 200 | 1.0% | 1.0% | \$ 320,000,000 | \$ 3,200,000 | 1.0% | 1.0% |
| Under Age 1 | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Years 1-20 | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Years 21-44 | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Years 45-64 | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Years 65+ | | 4,000 | 40 | 1.0% | 1.0% | \$ 64,000,000 | \$ 640,000 | 1.0% | 1.0% |
| Total | | 20,000 | 200 | 1.0% | 1.0% | \$ 320,000,000 | \$ 3,200,000 | 1.0% | 1.0% |
| Statewide | | Events | | | | Dollars | | | |
| Age Band | Gender | Total | PAE | 2018 % of Total | 2017 % of Total | Total | PAE | 2018 % of Total | 2017 % of Total |
| All Ages | Male | 15,000 | 150 | 1.0% | 1.0% | \$ 240,000,000 | \$ 2,400,000 | 1.0% | 1.0% |
| All Ages | Female | 15,000 | 150 | 1.0% | 1.0% | \$ 240,000,000 | \$ 2,400,000 | 1.0% | 1.0% |
| Total | | 30,000 | 300 | 1.0% | 1.0% | \$ 480,000,000 | \$ 4,800,000 | 1.0% | 1.0% |
| Under Age 1 | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Years 1-20 | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Years 21-44 | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Years 45-64 | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Years 65+ | | 6,000 | 60 | 1.0% | 1.0% | \$ 96,000,000 | \$ 960,000 | 1.0% | 1.0% |
| Total | | 30,000 | 300 | 1.0% | 1.0% | \$ 480,000,000 | \$ 4,800,000 | 1.0% | 1.0% |



Appendix G Template for Demonstration Only

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Readmissions |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Facility: | Facility 1 |

| 5. Events and Dollars by Top 10 APR-DRG | | | | | | | | | | | | | | |
|---|---------|---|------------|-------------------|---------------------|---------------------|------------|---------------------|---------------------|---------------------|------------|---------------------|---------------------|---------------------|
| Top 10 PAE by Zone | | | Facility 1 | | | | Zone 1 | | | | Statewide | | | |
| Zone Rank | APR DRG | Description | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE | PAE | PAE Dollars | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | 0720 | SEPTICEMIA & DISSEMINATED INFECTIONS | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 2 | 0710 | INFECTIOUS & PARASITIC DISEASES INCLUDING HIV W O.R. PROC | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 3 | 0314 | FOOT & TOE PROCEDURES | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 4 | 0775 | ALCOHOL ABUSE & DEPENDENCE | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 5 | 0340 | FRACTURE OF FEMUR | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 6 | 0282 | DISORDERS OF PANCREAS EXCEPT MALIGNANCY | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 7 | 0052 | NONTRAUMATIC STUPOR & COMA | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 8 | 0133 | RESPIRATORY FAILURE | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 9 | 0279 | HEPATIC COMA & OTHER MAJOR ACUTE LIVER DISORDERS | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| 10 | 0380 | SKIN ULCERS | 1 | \$ 16,000 | 5.0% | 5.0% | 10 | \$ 160,000 | 5.0% | 5.0% | 15 | \$ 240,000 | 5.0% | 5.0% |
| All Else | | | 10 | \$ 160,000 | 50.0% | 50.0% | 100 | \$ 1,600,000 | 50.0% | 50.0% | 150 | \$ 2,400,000 | 50.0% | 50.0% |
| Total | | | 20 | \$ 320,000 | 100.0% | 100.0% | 200 | \$ 3,200,000 | 100.0% | 100.0% | 300 | \$ 4,800,000 | 100.0% | 100.0% |



Appendix G

Template for Demonstration Only

| | |
|-----------------------|-------------------------------------|
| PAE Analysis: | Potentially Avoidable Complications |
| Program Type: | Fee-For-Service |
| Service Dates: | January 1, 2018 - December 31, 2018 |
| Facility: | Facility 1 |

| 1. Events by Potentially Avoidable Complication | | Facility 1 | | | Zone 1 | | | Statewide | | |
|---|--|------------|---------------------|---------------------|-----------|---------------------|---------------------|-----------|---------------------|---------------------|
| PAC # | PAC Description | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE | PAE | 2018 % of Total PAE | 2017 % of Total PAE |
| 1 | Foreign Object Retained After Surgery | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 2 | Air Embolism | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 3 | Blood Incomparability | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 4 | Stage III and IV Pressure Ulcers | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 5 | Falls and Trauma | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 6 | Catheter-Associated UTI | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 7 | Vascular Catheter-Associated Infection | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 8 | Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG) | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 9 | Manifestations of Poor Glycemic Control | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 10 | DVT/PE with Total Knee or Hip Replacement | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 11 | Surgical Site Infection - Bariatric Surgery | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 12 | Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 13 | Surgical Site Infection - Cardiac, Implantable Electronic Device procedure | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| 14 | Iatrogenic Pneumothorax w / Venous Catheterization | 1 | 7.1% | 7.1% | 2 | 7.1% | 7.1% | 3 | 7.1% | 7.1% |
| Total | | 14 | 100.0% | 100.0% | 28 | 100.0% | 100.0% | 42 | 100.0% | 100.0% |



Appendix H

Hospital List

Appendix H

| Health Care Outcomes Facility List | | | | |
|--|--|-------------|-------------|------------------|
| Facility Name | Group Name | Medicare ID | Billing MPI | Service Location |
| ABINGTON MEMORIAL HOSPITAL | ABINGTON MEMORIAL HOSP | 390231 | 100769186 | 0184 |
| ADVANCED SURGICAL HOSPITAL | ADVANCED SURGICAL HOSPITAL | 390323 | 102535275 | 0002 |
| ALBERT EINSTEIN MEDICAL CENTER | ALBERT EINSTEIN MED CTR | 390142 | 100754414 | 0015 |
| AEMC-ELKINS CAMPUS | ALBERT EINSTEIN MED CTR | 390142 | 100754414 | 0116 |
| ALLE KISKI MEDICAL CENTER | ALLE KISKI MEDICAL CENTER | 390032 | 100744768 | 0001 |
| AMERICAN ONCOLOGIC HOSPITAL | AMERICAN ONCOLOGIC HOSPITAL | 390196 | 100773699 | 0004 |
| ARIA HEALTH HOSPITAL FRANKFORD | ARIA HEALTH | 390115 | 100770525 | 0010 |
| ARIA HEALTH | ARIA HEALTH | 390115 | 100770525 | 0011 |
| ARIA HEALTH BUCKS COUNTY CAMPUS | ARIA HEALTH | 390115 | 100770525 | 0041 |
| ARMSTRONG COUNTY MEMORIAL HOSPITAL | ARMSTRONG COUNTY MEM HOSP | 390163 | 100745907 | 0002 |
| AUMC CANONSBURG | AUMC-CANONSBURG | 390160 | 100727730 | 0001 |
| BARNES KASSON HOSPITAL | BARNES KASSON HOSPITAL | 391309 | 100727622 | 0007 |
| BRADFORD REGIONAL MED CTR | BRADFORD REGIONAL MEDICAL CENTER | 390118 | 100750765 | 0005 |
| BRADFORD REGIONAL MEDICAL CENTER | BRADFORD REGIONAL MEDICAL CENTER | 390118 | 100775503 | 0022 |
| BRANDYWINE HOSPITAL | BRANDYWINE HOSPITAL | 390076 | 100775129 | 0005 |
| BRANDYWINE HOSPITAL | BRANDYWINE HOSPITAL | 390076 | 103442072 | 0001 |
| PENN HIGHLANDS BROOKVILLE | BROOKVILLE HOSPITAL | 391312 | 100773376 | 0004 |
| BRYN MAWR HOSPITAL | BRYN MAWR HOSPITAL | 390139 | 100735428 | 0026 |
| BUCKTAIL MEDICAL CENTER | BUCKTAIL MEDICAL CENTER | 391304 | 100764439 | 0002 |
| BUTLER MEMORIAL HOSPITAL | BUTLER MEMORIAL HOSPITAL | 390168 | 100773160 | 0013 |
| CH HOSPITAL OF ALLENTOWN LLC | CH HOSPITAL OF ALLENTOWN LLC | 390321 | 102374924 | 0001 |
| THE CHAMBERSBURG HOSPITAL | CHAMBERSBURG HOSPITAL | 390151 | 100745970 | 0009 |
| CHESTER COUNTY HOSPITAL | CHESTER COUNTY HOSPITAL | 390179 | 100727669 | 0009 |
| CHESTNUT HILL HOSPITAL | CHESTNUT HILL HOSPITAL | 390026 | 101315197 | 0002 |
| CHESTNUT HILL HOSPITAL | CHESTNUT HILL HOSPITAL | 390026 | 103432933 | 0001 |
| CHILDRENS HOSPITAL OF PHILADELPHIA | CHILDRENS HOSP OF PHILA | 393303 | 100770991 | 0056 |
| CHS BERWICK HOSPITAL CENTER | CHS BERWICK HOSPITAL CENTER | 390072 | 100756259 | 0006 |
| CLARION HOSPITAL | CLARION HOSPITAL | 390093 | 100233767 | 0005 |
| PENN HIGHLANDS CLEARFIELD | CLEARFIELD HOSPITAL | 390052 | 100747400 | 0032 |
| CONEMAUGH MINERS MEDICAL CENTER | CONEMAUGH MINERS MEDICAL CENTER | 390130 | 102976378 | 0001 |
| CONEMAUGH MEMORIAL MEDICAL CENTER | CONEMAUGH VALLEY MEM HOSP | 390110 | 102976289 | 0001 |
| COORDINATED HEALTH ORTHOPEDIC HOSPITAL LLC | COORDINATED HEALTH ORTHOPEDIC HOSPITAL | 390314 | 102210574 | 0001 |
| CORRY MEMORIAL HOSPITAL | CORRY MEMORIAL HOSP | 391308 | 100769990 | 0022 |
| CROZER-CHESTER MEDICAL CENTER | CROZER CHESTER MEDICAL CENTER-TAYLOR | 390180 | 103115130 | 0001 |
| CROZER-CHESTER MEDICAL CENTER SPRINGFIELD | CROZER CHESTER MEDICAL CENTER-TAYLOR | 390180 | 103115130 | 0002 |
| CROZER-CHESTER MEDICAL CENTER TAYLOR | CROZER CHESTER MEDICAL CENTER-TAYLOR | 390180 | 103115130 | 0003 |
| CURAHEALTH HERITAGE VALLEY | CURAHEALTH HERITAGE VALLEY | 392043 | 103229042 | 0001 |
| CURAHEALTH PITTSBURGH | CURAHEALTH PITTSBURGH | 392028 | 103229051 | 0001 |
| DELAWARE COUNTY MEMORIAL HOSPITAL | DELAWARE COUNTY MEM HOSP | 390081 | 103106893 | 0001 |
| DOYLESTOWN HOSPITAL | DOYLESTOWN HOSPITAL | 390203 | 100125732 | 0003 |
| PENN HIGHLANDS DUBOIS | DUBOIS REGIONAL MED CTR | 390086 | 100774088 | 0070 |
| EASTON HOSPITAL | EASTON HOSPITAL | 390162 | 100752590 | 0001 |
| EASTON HOSPITAL | EASTON HOSPITAL | 390162 | 103379540 | 0001 |

Appendix H

| Health Care Outcomes Facility List | | | | |
|---|---|-------------|-------------|------------------|
| Facility Name | Group Name | Medicare ID | Billing MPI | Service Location |
| EINSTEIN MEDICAL CENTER MONTGOMERY | EINSTEIN MEDICAL CENTER MONTGOMERY | 390329 | 102743527 | 0001 |
| ELLWOOD CITY HOSPITAL | ELLWOOD CITY HOSPITAL | 390008 | 100771854 | 0006 |
| ELLWOOD MEDICAL CENTER LLC | ELLWOOD CITY HOSPITAL | 390008 | 103462790 | 0001 |
| ENDLESS MOUNTAINS HEALTH SYSTEMS | ENDLESS MOUNTAIN HEALTH SYSTEMS | 391306 | 100737306 | 0011 |
| WELLSPAN EPHRATA COMMUNITY HOSPITAL | EPHRATA COMMUNITY HOSPITAL | 390225 | 100746468 | 0006 |
| EVANGELICAL COMMUNITY HOSPITAL | EVANGELICAL COMM HOSPITAL | 390013 | 100773151 | 0008 |
| FRICK HOSPITAL | FRICK HOSPITAL | 390217 | 100727963 | 0007 |
| FULTON COUNTY MEDICAL CENTER | FULTON COUNTY MEDICAL CENTER | 391303 | 100742763 | 0011 |
| GEISINGER-BLOOMSBURG HOSPITAL | GEISINGER BLOOMSBURG HOSPITAL | 390003 | 100774041 | 0009 |
| GEISINGER COMMUNITY MEDICAL CENTER | GEISINGER COMMUNITY MEDICAL CENTER | 390001 | 100745676 | 0006 |
| GEISINGER-LEWISTOWN HOSPITAL | GEISINGER LEWISTOWN HOSPITAL | 390048 | 100750676 | 0004 |
| GEISINGER MEDICAL CENTER | GEISINGER MEDICAL CENTER | 390006 | 100747886 | 0069 |
| GEISINGER-SHAMOKIN AREA COMMUNITY HOSPITAL | GEISINGER MEDICAL CENTER | 390006 | 100747886 | 0097 |
| GEISINGER WYOMING VALLEY MEDICAL CENTER | GEISINGER-WYOMING MED CTR | 390270 | 100758478 | 0002 |
| WELLSPAN GETTYSBURG HOSPITAL | GETTYSBURG HOSPITAL | 390065 | 100759018 | 0008 |
| GOOD SAMARITAN HOSPITAL | GOOD SAMARITAN HOSPITAL | 390066 | 100773278 | 0004 |
| GOOD SHEPHERD PENN PTNRS SPEC HOSP AT RITTENHOUSE | GOOD SHEPHERD PENN PTNRS SPEC HOSP AT RITTENHOUSE | AAAAAA | 102381123 | 0001 |
| GOOD SHEPHERD SPECIALTY HOSPITAL | GOOD SHEPHERD SPECIALTY HOSPITAL | 392033 | 102981028 | 0001 |
| GRAND VIEW HOSPITAL | GRAND VIEW HOSPITAL | 390057 | 100125741 | 0007 |
| GROVE CITY MEDICAL CENTER | GROVE CITY MEDICAL CENTER | 390266 | 100776547 | 0006 |
| GUTHRIE TOWANDA MEMORIAL HOSPITAL | GUTHRIE TOWANDA MEMORIAL HOSPITAL | 390236 | 100771326 | 0001 |
| HAHNEMANN UNIVERSITY HOSPITAL | HAHNEMANN UNIVERSITY HOSPITAL | 390290 | 100756393 | 0015 |
| HAHNEMANN UNIVERSITY HOSPITAL | HAHNEMANN UNIVERSITY HOSPITAL | 390290 | 103466708 | 0001 |
| HERITAGE VALLEY BEAVER | HERITAGE VALLEY BEAVER | 390036 | 100003355 | 0174 |
| HERITAGE VALLEY BEAVER | HERITAGE VALLEY BEAVER | 390036 | 100003355 | 0175 |
| HERITAGE VALLEY SEWICKLEY | HERITAGE VALLEY SEWICKLEY | 390037 | 100003355 | 0179 |
| HIGHLANDS HOSPITAL | HIGHLANDS HOSPITAL & HLTH CTR | 390184 | 100776921 | 0010 |
| HOLY REDEEMER HOSPITAL | HOLY REDEEMER HOSPITAL | 390097 | 100126453 | 0009 |
| HOLY SPIRIT HOSPITAL | HOLY SPIRIT HOSPITAL | 390004 | 100771881 | 0081 |
| INDIANA REGIONAL MEDICAL CENTER | INDIANA REGIONAL MEDICAL CENTER | 390173 | 100771353 | 0001 |
| J C BLAIR HOSPITAL | J C BLAIR HOSPITAL | 390056 | 100768376 | 0041 |
| JEANES HOSPITAL | JEANES HOSPITAL | 390080 | 100506111 | 0008 |
| JEFFERSON REGIONAL MEDICAL CENTER | JEFFERSON HEALTH SERVICES | 390265 | 100744347 | 0018 |
| JENNERSVILLE REGIONAL HOSPITAL | JENNERSVILLE HOSPITAL | 390220 | 100731240 | 0006 |
| JENNERSVILLE HOSPITAL | JENNERSVILLE HOSPITAL | 390220 | 103442063 | 0001 |
| JERSEY SHORE HOSPITAL | JERSEY SHORE HOSPITAL | 391300 | 100770356 | 0003 |
| KENSINGTON HOSPITAL | KENSINGTON HOSPITAL | 390025 | 100771729 | 0006 |
| KINDRED HOSPITAL PHILADELPHIA-HAVERTOWN | KINDRED HOSPITAL | 392027 | 001759216 | 0005 |
| KINDRED HOSPITAL OF PHILADELPHIA | KINDRED HOSPITAL | 392027 | 001759216 | 0009 |
| KINDRED HOSPITAL PHILADELPHIA SOUTH | KINDRED HOSPITAL PHILADELPHIA SOUTH | 392046 | 102688579 | 0001 |
| LANCASTER GENERAL HOSPITAL | LANCASTER GENERAL HOSP | 390100 | 100771175 | 0051 |
| WOMEN AND BABIES HOSPITAL | LANCASTER GENERAL HOSP | 390100 | 100771175 | 0081 |
| LANSDALE HOSPITAL CORPORATION | LANSDALE HOSPITAL CORPORATION | 390012 | 102256789 | 0001 |

Appendix H

| Health Care Outcomes Facility List | | | | |
|---|--|-------------|-------------|------------------|
| Facility Name | Group Name | Medicare ID | Billing MPI | Service Location |
| LATROBE AREA HOSPITAL | LATROBE AREA HOSPITAL | 390219 | 100761052 | 0083 |
| LEHIGH VALLEY HOSPITAL | LEHIGH VALLEY HOSPITAL | 390133 | 100766021 | 0018 |
| LEHIGH VALLEY HOSPITAL | LEHIGH VALLEY HOSPITAL | 390133 | 100766021 | 0023 |
| LEHIGH VALLEY HOSPITAL | LEHIGH VALLEY HOSPITAL | 390133 | 100766021 | 0057 |
| LEHIGH VALLEY HOSPITAL HAZLETON | LEHIGH VALLEY HOSPITAL HAZLETON | 390185 | 100728719 | 0004 |
| LEHIGH VALLEY HOSPITAL MUHLENBERG | LEHIGH VALLEY HOSPITAL MUHLENBERG | 390263 | 100730000 | 0001 |
| LEHIGH VALLEY HOSPITAL MUHLENBERG | LEHIGH VALLEY HOSPITAL MUHLENBERG | 390263 | 100766021 | 0076 |
| LEHIGH VALLEY HOSPITAL SCHUYLKILL | LEHIGH VALLEY HOSPITAL SCHUYLKILL | 390030 | 100760725 | 0019 |
| LEHIGH VALLEY HOSPITAL SCHUYLKILL | LEHIGH VALLEY HOSPITAL SCHUYLKILL | 390030 | 100760725 | 0031 |
| LIFECARE HOSPITALS OF MECHANISBURG | LIFECARE HOSPITALS OF MECHANISBURG | BBBBBB | 102904510 | 0001 |
| LIFECARE HOSPITALS OF PITTSBURGH-ALLE KISKI | LIFECARE HOSPITALS OF PITTSBURGH-ALLE KISKI | 392204 | 102904459 | 0003 |
| LIFECARE HOSPITALS OF PITTSBURGH-MAIN | LIFECARE HOSPITALS OF PITTSBURGH-MAIN | 392204 | 102904459 | 0002 |
| LIFECARE HOSPITALS OF PITTSBURGH-SUBURBAN | LIFECARE HOSPITALS OF PITTSBURGH-SUBURBAN | 392204 | 102904459 | 0001 |
| PRIME HEALTHCARE SERVICES LOWER BUCKS LLC | LOWER BUCKS HOSPITAL | 390070 | 102862484 | 0001 |
| MERCY FITZGERALD HOSPITAL | M.C.M.C. FITZGERALD MERCY DV | 390156A | 100730682 | 0001 |
| MAIN LINE HOSPITAL LANKENAU | MAIN LINE HOSPITAL LANKENAU | 390195 | 100735428 | 0039 |
| MEADVILLE MEDICAL CENTER | MEADVILLE MEDICAL CENTER | 390113 | 100752115 | 0043 |
| MERCY PHILADELPHIA HOSPITAL | MERCY HOSPITAL OF PHILADELPHIA | 390156 | 100730682 | 0068 |
| SUBURBAN COMMUNITY HOSPITAL | MERCY SUBURBAN HOSPITAL | 390116 | 103075750 | 0001 |
| CONEMAUGH MEYERSDALE MEDICAL CENTER | MEYERSDALE COMMUNITY HOSP | 391302 | 102976322 | 0001 |
| MILLCREEK COMMUNITY HOSPITAL | MILLCREEK COMMUNITY HOSPITAL | 390198 | 100771120 | 0008 |
| THE MILTON S HERSHEY MEDICAL CENTER | MILTON S. HERSHEY MEDICAL CTR, THE | 390256 | 100765310 | 0005 |
| MONONGAHELA VALLEY HOSPITAL | MONONGAHELA VALLEY HOSP, INC | 390147 | 100738887 | 0002 |
| MOSES TAYLOR HOSPITAL | MOSES TAYLOR HOSPITAL | 390119 | 102705188 | 0001 |
| MOUNT NITTANY MEDICAL CENTER | MOUNT NITTANY MEDICAL CENTER | 390268 | 100746655 | 0003 |
| CONEMAUGH NASON MEDICAL CENTER | NASON HOSPITAL | 390062 | 102998929 | 0001 |
| NAZARETH HOSPITAL | NAZARETH HOSPITAL | 390204 | 100765472 | 0011 |
| NEW LIFECARE HOSPITALS OF CHESTER COUNTY LLC | NEW LIFECARE HOSPITALS OF CHESTER COUNTY LLC | 392048 | 102904495 | 0001 |
| OHIO VALLEY GENERAL HOSPITAL | OHIO VALLEY GENERAL HOSPITAL | 390157 | 100750282 | 0003 |
| OSS ORTHOPAEDIC HOSPITAL | OSS ORTHOPAEDIC HOSPITAL | 390325 | 102569451 | 0001 |
| PAM SPECIALTY HOSPITAL OF SCRANTON | PAM SPECIALTY HOSPITAL | 392025 | 103067848 | 0001 |
| PAM SPECIALTY HOSPITAL OF WILKES BARRE | PAM SPECIALTY HOSPITAL | 392025 | 103067848 | 0002 |
| PAOLI MEMORIAL HOSPITAL | PAOLI MEMORIAL HOSPITAL | 390153 | 100735428 | 0036 |
| PENN HIGHLANDS ELK | PENN HIGHLANDS ELK | 390154 | 100729260 | 0030 |
| PENN PRESBYTERIAN MEDICAL CENTER | PENN PRESBYTERIAN MEDICAL CENTER | 390223 | 100729707 | 0008 |
| PENNSYLVANIA HOSPITAL/UPHS | PENNSYLVANIA HOSPITAL/UPHS | 390226 | 100004915 | 0007 |
| PHOENIXVILLE HOSPITAL | PHOENIXVILLE HOSPITAL | 390127 | 101095315 | 0001 |
| PHOENIXVILLE HOSPITAL | PHOENIXVILLE HOSPITAL | 390127 | 103441333 | 0001 |
| PHYSICIANS CARE SURGICAL HOSPITAL | PHYSICIANS CARE SURGICAL HOSPITAL | 390324 | 102569415 | 0001 |
| LANCASTER REGIONAL MEDICAL CENTER | PINNACLE HEALTH LANCASTER REGIONAL MEDICAL CEN | 390061 | 100006713 | 0006 |
| PINNACLE HEALTH LANCASTER REGIONAL MEDICAL CENTER | PINNACLE HEALTH LANCASTER REGIONAL MEDICAL CEN | 390061 | 103359691 | 0001 |
| POCONO HOSPITAL | POCONO HOSPITAL | 390201 | 100772397 | 0001 |
| POTTSTOWN MEMORIAL MEDICAL CENTER | POTTSTOWN HOSPITAL | 390123 | 100751744 | 0003 |

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| Health Care Outcomes Facility List | | | | |
|---|--|-------------|-------------|------------------|
| Facility Name | Group Name | Medicare ID | Billing MPI | Service Location |
| POTTSTOWN HOSPITAL | POTTSTOWN HOSPITAL | 390123 | 103441692 | 0001 |
| PUNXSUTAWNEY AREA HOSPITAL | PUNXSUTAWNEY AREA HOSPITAL | 390199 | 100771264 | 0007 |
| READING HOSPITAL | READING HOSPITAL-MED CTR | 390044 | 100286591 | 0069 |
| REGIONAL HOSPITAL OF SCRANTON | REGIONAL HOSPITAL OF SCRANTON | 390237 | 102607329 | 0001 |
| RIDDLE MEMORIAL HOSPITAL | RIDDLE MEMORIAL HOSPITAL | 390222 | 100741229 | 0004 |
| ROBERT PACKER HOSPITAL | ROBERT PACKER HOSPITAL | 390079 | 100770614 | 0003 |
| ROXBOROUGH MEMORIAL HOSPITAL | ROXBOROUGH MEMORIAL HOSPITAL | 390304 | 102685791 | 0001 |
| SACRED HEART HOSPITAL | SACRED HEART HOSPITAL | 390197 | 100727542 | 0012 |
| ST MARY MEDICAL CENTER | SAINT MARY MEDICAL CENTER | 390258 | 100773142 | 0004 |
| SAINT VINCENT HEALTH CENTER | SAINT VINCENT HEALTH CENTER | 390009 | 100162520 | 0025 |
| SCHUYLKILL MEDICAL CENTER EAST NORWEGIAN STREET | SCHUYLKILL MEDICAL CNT E NORWEGIAN ST | 390031 | 100760449 | 0031 |
| SELECT SPECIALTY HOSPITAL CENTRAL PA LP CAMP HILL | SELECT SPECIALTY HOSPITAL CENTRAL PA LP | 392039 | 102770936 | 0001 |
| SELECT SPECIALTY HOSPITAL CENTRAL PA LP | SELECT SPECIALTY HOSPITAL CENTRAL PA LP | 392039 | 102770936 | 0003 |
| SELECT SPECIALTY HOSPITAL CENTRAL PA LP | SELECT SPECIALTY HOSPITAL CENTRAL PA LP | 392039 | 102770936 | 0004 |
| SELECT SPECIALTY HOSPITAL DANVILLE INC | SELECT SPECIALTY HOSPITAL DANVILLE INC | 392047 | 102770847 | 0001 |
| SELECT SPECIALTY HOSPITAL JOHNSTOWN | SELECT SPECIALTY HOSPITAL JOHNSTOWN | 392031 | 102717376 | 0001 |
| SELECT SPECIALTY HOSPITAL LAUREL HIGHLANDS INC | SELECT SPECIALTY HOSPITAL LAUREL HIGHLANDS INC | 392036 | 102740946 | 0001 |
| SELECT SPECIALTY HOSPITAL MCKEESPORT INC | SELECT SPECIALTY HOSPITAL MCKEESPORT INC | 392045 | 102741166 | 0001 |
| SELECT SPECIALTY HOSPITAL-ERIE | SELECT SPECIALTY HOSPITAL-ERIE | 392037 | 102717465 | 0001 |
| SELECT SPECIALTY HOSPITAL PITTSBURGH UPMC INC | SELECT SPECIALTY HOSPITAL PITTSBURGH UPMC INC | 392044 | 102741110 | 0001 |
| SHARON REGIONAL HEALTH SYSTEM | SHARON REGIONAL HEALTH SYSTEM | 390211 | 102905788 | 0001 |
| SHARON REGIONAL MEDICAL CENTER | SHARON REGIONAL HEALTH SYSTEM | 390211 | 103377288 | 0001 |
| SHRINERS HOSPITALS FOR CHILDREN | SHRINERS HOSPITAL FOR CHILDREN | 393309 | 102588878 | 0001 |
| SOMERSET COMMUNITY HOSPITAL | SOMERSET COMMUNITY HOSPITAL | 390039 | 100208666 | 0009 |
| ST CHRISTOPHERS HOSPITAL FOR CHILDREN | ST CHRISTOPHERS HOSPITAL FOR CHILDREN | 393307 | 100729672 | 0002 |
| ST CHRISTOPHERS HOSPITAL FOR CHILDREN | ST CHRISTOPHERS HOSPITAL FOR CHILDREN | 393307 | 103466163 | 0001 |
| ST JOSEPH REGIONAL HEALTH NETWORK | ST JOSEPH REGIONAL HEALTH NETWORK | 390096 | 100754497 | 0057 |
| ST CLAIR MEMORIAL HOSPITAL | ST. CLAIR MEMO HOSPITAL | 390228 | 100755206 | 0019 |
| ST LUKES HOSP OF BETHLEHEM | ST. LUKE'S HOSP OF BETHLEHEM/ALLENTOWN | 390049 | 100755251 | 0051 |
| ST LUKES NORTH | ST. LUKE'S HOSP OF BETHLEHEM/ALLENTOWN | 390049 | 100755251 | 0053 |
| ST LUKES HOSP ALLENTOWN | ST. LUKE'S HOSP OF BETHLEHEM/ALLENTOWN | 390049 | 100755251 | 0086 |
| ST LUKES HOSPITAL ANDERSON CAMPUS | ST. LUKE'S HOSPITAL ANDERSON CAMPUS | 390326 | 102809290 | 0001 |
| ST LUKES HOSPITAL MONROE CAMPUS | ST. LUKE'S HOSPITAL MONROE CAMPUS | 390330 | 103220010 | 0001 |
| ST LUKES HOSPITAL-GNADEN HUETTEN CAMPUS | ST. LUKE'S HOSPITAL-GNADEN HUETTEN CAMPUS | 390194 | 100495831 | 0036 |
| ST LUKES HOSPITAL-PALMERTON CAMPUS | ST. LUKE'S HOSPITAL-GNADEN HUETTEN CAMPUS | 390019 | 100495831 | 0047 |
| ST LUKES MINERS MEMORIAL HOSPITAL | ST. LUKE'S MINERS MEMORIAL HOSPITAL | 390183 | 100745470 | 0008 |
| ST LUKES HOSPITAL QUAKERTOWN | ST. LUKES QUAKERTOWN HOSPITAL | 390035 | 100745700 | 0001 |
| SURGERY CENTER AT EDGEWOOD PLACE | SURGERY CENTER AT EDGEWOOD PLACE | 390307 | 101009710 | 0002 |
| SURGICAL INSTITUTE OF READING LLC | SURGICAL INSTITUTE OF READING LLC | 390316 | 102075470 | 0001 |
| TEMPLE UNIVERSITY HOSPITAL INC | TEMPLE UNIVERSITY HOSPITAL | 390027 | 100735114 | 0008 |
| TEMPLE UNIVERSITY HOSPITAL EPISCOPAL CAMPUS | TEMPLE UNIVERSITY HOSPITAL | 390027 | 100735114 | 0022 |
| TEMPLE UNIVERSITY HOSPITAL BONE MARROW TRANSPLANT | TEMPLE UNIVERSITY HOSPITAL | 390027 | 100735114 | 0023 |
| THOMAS JEFFERSON UNIVERSITY HOSPITAL | THOMAS JEFFERSON UNIV & HOSP | 390174 | 100750854 | 0018 |

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| Health Care Outcomes Facility List | | | | |
|--|---------------------------------------|-------------|-------------|------------------|
| Facility Name | Group Name | Medicare ID | Billing MPI | Service Location |
| THOMAS JEFFERSON UNIVERSITY HOSPITAL METHODIST | THOMAS JEFFERSON UNIV & HOSP | 390174 | 100750854 | 0022 |
| TITUSVILLE HOSPITAL | TITUSVILLE HOSPITAL | 390122 | 100746065 | 0002 |
| TITUSVILLE HOSPITAL | TITUSVILLE HOSPITAL | 390122 | 100746065 | 0003 |
| TROY COMMUNITY HOSPITAL | TROY COMMUNITY HOSPITAL | 391305 | 100750578 | 0019 |
| TYLER MEMORIAL HOSPITAL | TYLER MEMORIAL HOSPITAL | 390192 | 102607436 | 0001 |
| TYRONE HOSPITAL | TYRONE HOSPITAL | 391307 | 100773400 | 0002 |
| UNIONTOWN HOSPITAL | UNIONTOWN HOSP ASSOC | 390041 | 100763075 | 0018 |
| UNIVERSITY OF PENNSYLVANIA HOSPITAL | UNIVERSITY OF PENNA HOSPITAL | 390111 | 100125877 | 0069 |
| UNIVERSITY OF PENNSYLVANIA HOSPITAL | UNIVERSITY OF PENNA HOSPITAL | | 100125877 | 0100 |
| UPMC ALTOONA | UPMC ALTOONA | 390073 | 100727829 | 0085 |
| CARLISLE REGIONAL MEDICAL CENTER | UPMC CARLISLE | 390058 | 100775085 | 0022 |
| UPMC CARLISLE | UPMC CARLISLE | 390058 | 103355781 | 0001 |
| UPMC CHILDRENS HOSPITAL OF PITTSBURGH | UPMC CHILDRENS HOSPITAL OF PITTSBURGH | 393302 | 100734799 | 0059 |
| CHARLES COLE MEMORIAL HOSPITAL | UPMC COLE | 391313 | 100001127 | 0106 |
| UPMC EAST | UPMC EAST | 390328 | 102726544 | 0001 |
| UPMC HAMOT | UPMC HAMOT | 390063 | 100728657 | 0033 |
| UPMC HANOVER | UPMC HANOVER | 390233 | 100744033 | 0006 |
| UPMC HORIZON | UPMC HORIZON | 390178 | 100728236 | 0025 |
| UPMC HORIZON | UPMC HORIZON | 390178 | 100728236 | 0032 |
| UPMC JAMESON | UPMC JAMESON | 390016 | 100002189 | 0007 |
| KANE COMMUNITY HOSPITAL | UPMC KANE | 390104 | 100745774 | 0004 |
| HEART LANCASTER REGIONAL MEDICAL CENTER | UPMC LITITZ | 390068 | 100734135 | 0023 |
| UPMC LITITZ | UPMC LITITZ | 390068 | 103360084 | 0001 |
| UPMC LOCK HAVEN HOSPITAL | UPMC LOCK HAVEN HOSPITAL | 390071 | 100755091 | 0001 |
| UPMC LOCK HAVEN HOSPITAL | UPMC LOCK HAVEN HOSPITAL | 390071 | 103451581 | 0001 |
| UPMC MAGEE-WOMENS HOSPITAL | UPMC MAGEE-WOMENS HOSPITAL | 390114 | 100771157 | 0045 |
| UPMC MEMORIAL | UPMC MEMORIAL | 390101 | 102732050 | 0001 |
| PINNACLE HEALTH MEMORIAL HOSPITAL | UPMC MEMORIAL | 390101 | 103360870 | 0001 |
| MERCY HOSPITAL OF PITTSBURGH | UPMC MERCY | 390028 | 100138089 | 0017 |
| UPMC MERCY | UPMC MERCY | 390028 | 100138089 | 0044 |
| UPMC MUNCY | UPMC MUNCY | 391301 | 100760780 | 0008 |
| UPMC NORTHWEST | UPMC NORTHWEST | 390091 | 100775791 | 0056 |
| UPMC PASSAVANT HOSPITAL | UPMC PASSAVANT HOSPITAL | 390107 | 100191335 | 0005 |
| UPMC PASSAVANT CRANBERRY | UPMC PASSAVANT HOSPITAL | 390107 | 100191335 | 0013 |
| UPMC PINNACLE COMMUNITY GENERAL HOSPITAL | UPMC PINNACLE HOSPITALS | 390206 | 100002563 | 0059 |
| UPMC PINNACLE HARRISBURG HOSPITAL | UPMC PINNACLE HOSPITALS | 390067 | 100002563 | 0043 |
| UPMC PINNACLE WEST SHORE HOSPITAL | UPMC PINNACLE HOSPITALS | 390067 | 100002563 | 0166 |
| UPMC PRESBYTERIAN SHADYSIDE | UPMC PRESBYTERIAN SHADYSIDE | 390164 | 100001904 | 0029 |
| UPMC SUNBURY COMMUNITY HOSPITAL | UPMC SUNBURY COMMUNITY HOSPITAL | 390084 | 101423612 | 0002 |
| UPMC SUNBURY COMMUNITY HOSPITAL | UPMC SUNBURY COMMUNITY HOSPITAL | 390084 | 103453058 | 0001 |
| UPMC WILLIAMSPORT | UPMC SUSQUEHANNA WILLIAMSPORT | 390045 | 100754835 | 0019 |
| UPMC WELLSBORO | UPMC WELLSBORO | 390043 | 100003767 | 0010 |
| DIVINE PROVIDENCE HOSPITAL | UPMC WILLIAMSPORT DIVINE PROVIDENCE | 394048 | 100756375 | 0014 |

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| Health Care Outcomes Facility List | | | | |
|--|--|-------------|-------------|------------------|
| Facility Name | Group Name | Medicare ID | Billing MPI | Service Location |
| UPMC-BEDFORD MEMORIAL | UPMC-BEDFORD MEMORIAL | 390117 | 100746047 | 0003 |
| UPMC-MCKEESPORT | UPMC-MCKEESPORT | 390002 | 100764340 | 0014 |
| UPMC-ST MARGARET | UPMC-ST.MARGARET | 390102 | 100759920 | 0016 |
| VALLEYFORGE MEDICAL CENTER & HOSPITAL | VALLEY FORGE MED CTR & HOSP | 390272 | 100735203 | 0001 |
| WARREN GENERAL HOSPITAL | WARREN GENERAL HOSPITAL | 390146 | 100728497 | 0027 |
| WASHINGTON HEALTH SYSTEM GREENE | WASHINGTON HEALTH SYSTEM GREENE | 390150 | 103005569 | 0001 |
| WASHINGTON HOSPITAL | WASHINGTON HOSPITAL | 390042 | 100738911 | 0009 |
| WAYNE MEMORIAL HOSPITAL | WAYNE MEM HOSPITAL | 390125 | 100738359 | 0002 |
| WAYNESBORO HOSPITAL | WAYNESBORO HOSPITAL | 390138 | 100742487 | 0006 |
| WELLSPAN SURGERY AND REHABILITATION HOSPITAL | WELLSPAN SURGERY AND REHABILITATION HOSPITAL | 390327 | 102704903 | 0001 |
| WEST PENN-ALLEGHENY GENERAL HOSPITAL | WEST PENN-ALLEGHENY GENERAL HOSPITAL | 390050 | 100727720 | 0094 |
| WESTERN PENN HOSP-FORBES REGIONAL CAMPUS | WESTERN PENN HOSP-FORBES REGIONAL CAMPUS | 390267 | 100727720 | 0082 |
| WESTERN PENN HOSPITAL | WESTERN PENN HOSPITAL | 390090 | 100727720 | 0061 |
| WESTMORELAND REGHOSP | WESTMORELAND REG.HOSP. | 390145 | 100774847 | 0028 |
| WILKES BARRE GENERAL HOSPITAL | WILKES BARRE GENERAL HOSPITAL | 390137 | 102372966 | 0001 |
| WILLS EYE HOSPITAL | WILLS EYE HOSPITAL | 390331 | 100763825 | 0023 |
| WINDBER HOSPITAL | WINDBER HOSPITAL | 390112 | 100770374 | 0004 |
| YORK HOSPITAL | YORK HOSPITAL | 390046 | 100196547 | 0059 |
| All Other Hospitals | All Other Hospitals | N/A | N/A | N/A |

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