



# **Hospital Outcomes Program Report to the Pennsylvania General Assembly**

**February 28, 2020**

**Commonwealth of  
Pennsylvania Department of  
Human Services**



**pennsylvania**  
DEPARTMENT OF HUMAN SERVICES

## CONTENTS

1. Introduction and Background .....	1
2. Overview of Legislative Requirements .....	2
3. Selection of Potentially Avoidable Event Methodology .....	3
4. Hospital Results Baseline.....	6
5. Next Steps .....	7
Appendix A: Potentially Avoidable Readmissions — MCO Beneficiaries.....	8
Appendix B: Potentially Avoidable Complications — MCO Beneficiaries.....	21
Appendix C: Potentially Avoidable Readmissions — FFS Beneficiaries .....	27
Appendix D: Potentially Avoidable Complications — FFS Beneficiaries .....	39
Appendix E: Glossary .....	45
Appendix F: Hospital Report Template — MCO Beneficiaries .....	48
Appendix G: Hospital Report Template — FFS Beneficiaries .....	52

# 1

## INTRODUCTION AND BACKGROUND

The Act of June 22, 2018 (P.L. 258, No. 40) (Act 40) contained provisions, referred to as the Health Care Outcomes provisions<sup>1</sup>, 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 the following PAEs:

- Potentially avoidable readmissions (PAR).
- Potentially avoidable admissions (PAA).
- Potentially avoidable complications (PAC).
- Potentially avoidable emergency visits (PAV).

This report is intended to provide an overview of the Hospital Outcomes program to the General Assembly. As this is the first year of the program, a year over year comparison is not available. However, the baseline data is provided, and 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 HealthChoices program.

---

<sup>1</sup> 62 P.S. §§ 501-a–536-a.

# 2

## 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, the methodology used to select PAEs, the results of the analysis and recommendations, was delivered to the General Assembly on December 31, 2019. 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/Pages/Highlighted-Reports.aspx>

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” serves as the first report. As this is the first year of the analysis, there is one year of data included as the baseline results. Therefore, year over year data comparisons are not available and are not included in the report. An MCO outcomes program report is also required and will be provided as a separate report titled “Managed Care Organization Outcomes Program.”

# 3

## SELECTION OF POTENTIALLY AVOIDABLE EVENT METHODOLOGY

The Department is required to select a clinical categorical PAE methodology that will provide performance information on 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 efficiency algorithms which was selected as the methodology for identifying the PAE of PAR. Mercer worked under the direction of the Department to leverage the clinical efficiency algorithms 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 illness that occurred while in the hospital.

### DATA SOURCES

Mercer utilized Physical Health (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) 2020 PH HealthChoices managed care capitation rates, the encounter data used in this analysis includes services provided to MCO and FFS beneficiaries for service dates January 1, 2017 through December 31, 2017.

### POTENTIALLY AVOIDABLE EVENT PROCESS

Each PAE is identified following an established process that is described below. For a more detailed description regarding the PAE process and corresponding analysis, please refer to the complete Comprehensive Analysis produced on December 31, 2019.

#### **Potentially Avoidable Readmissions**

The readmission analysis 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.

### Potentially Avoidable Complications

The complications analysis is consistent with the conditions defined as PPCs by CMS and includes both HCACs and OPPCs.

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".<sup>2</sup>

- 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.

### 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

---

<sup>2</sup> Medicaid.gov. (nd). Provider Preventable Conditions.[online] available at: <https://www.medicaid.gov/medicaid/finance/provider-preventable-conditions/index.html> [Accessed 30 Jan. 2020].

directly applied within the results but are, instead, intended to inform the overall acuity level of the events being analyzed.

# 4

## HOSPITAL RESULTS BASELINE

An evaluation of the baseline 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 below summarizes the baseline 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	% OF ADMITS	COST ASSOCIATED WITH PAEs*	% OF INPATIENT COST
<b>MEDICAID MCO BENEFICIARIES</b>				
Potentially avoidable readmissions	4,396	1.7%	\$40,913,360	1.8%
Potentially avoidable complications	238	0.1%	\$0	0.0%
<b>MEDICAID FFS BENEFICIARIES</b>				
Potentially avoidable readmissions	402	1.1%	\$7,671,409	1.8%
Potentially avoidable complications	65	0.2%	\$0	0.0%
<b>Total</b>	<b>5,101</b>	<b>1.8%</b>	<b>\$48,584,769</b>	<b>1.8%</b>

\* Results 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 targeted efficiency levels.

The Department’s efficiency adjustments took into account the \$40.9 million of potentially avoidable readmissions for MCO beneficiaries as part of the PH HealthChoices rate setting process.

In order to provide the baseline data in a format that will provide the most descriptive information the baseline 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.

# 5

## 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 2020. A template of the analysis that will be provided to each hospital is included as Appendices F and G.

# 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.

#### 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 potentially avoidable readmissions at the zone and statewide level.<sup>3</sup> 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.

---

<sup>3</sup> 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.

**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

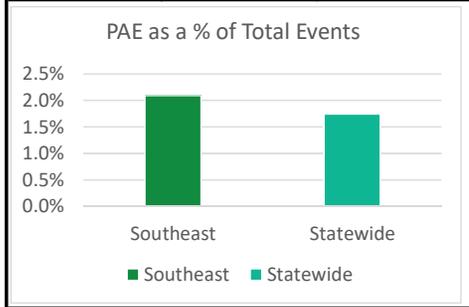
1. Admits and Dollars for CY 2017 service dates are based on PH-MCO encounter data submitted through September 30, 2018.
2. Inpatient is defined as admits with a claim type of "I" or "A".
3. APR-DRGs are assigned by PROMISe system and represent a mix of APR-DRG versions 34 and 35 depending on discharge 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 are not considered in this analysis.
6. Age and gender are assigned using PROMISe eligibility data.
7. Encounters with revenue code 0762 and no room and board code, indicating an observation stay, were excluded from PAR.
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.

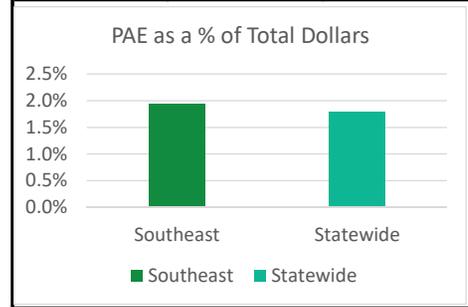
## Appendix A

**PAE Analysis:** Potentially Avoidable Readmissions  
**Program Type:** Physical Health HealthChoices  
**Service Dates:** January 1, 2017 - December 31, 2017  
**Zone:** Southeast

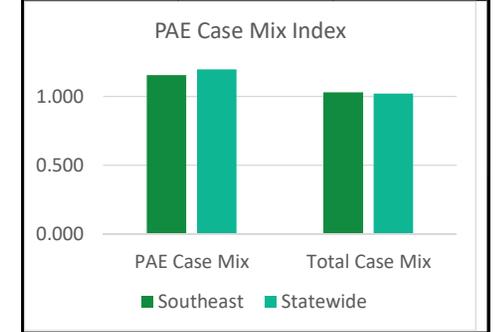
1. Total Events		
	Southeast	Statewide
PAE	1,905	4,396
Total	91,084	252,457
<b>PAE %</b>	<b>2.1%</b>	<b>1.7%</b>



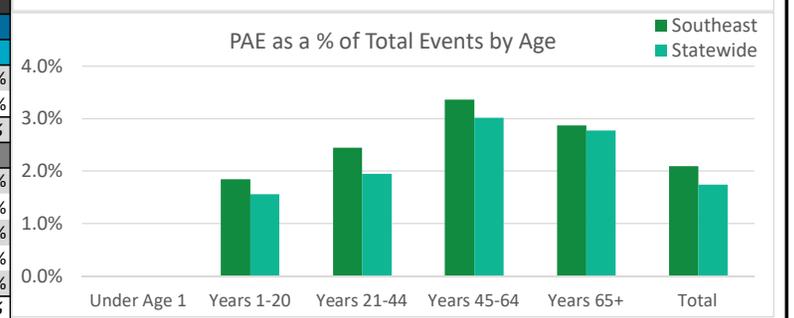
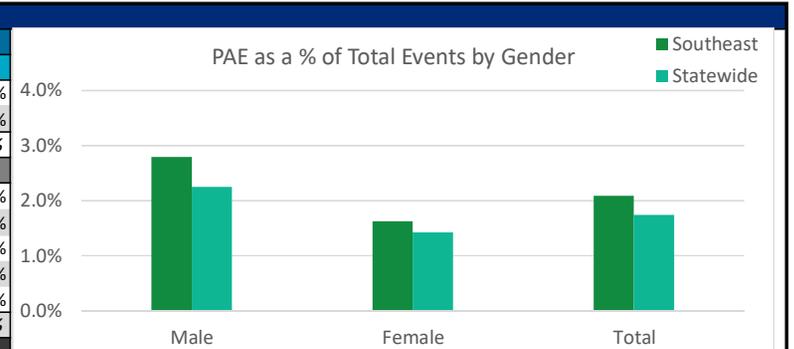
2. Total Dollars		
	Southeast	Statewide
PAE	\$ 17,962,546	\$ 40,913,360
Total	\$ 926,609,494	\$ 2,287,428,422
<b>PAE %</b>	<b>1.9%</b>	<b>1.8%</b>



3. APR-DRG Case Mix Index		
	Southeast	Statewide
PAE Case Mix	1.156	1.197
Total Case Mix	1.030	1.021



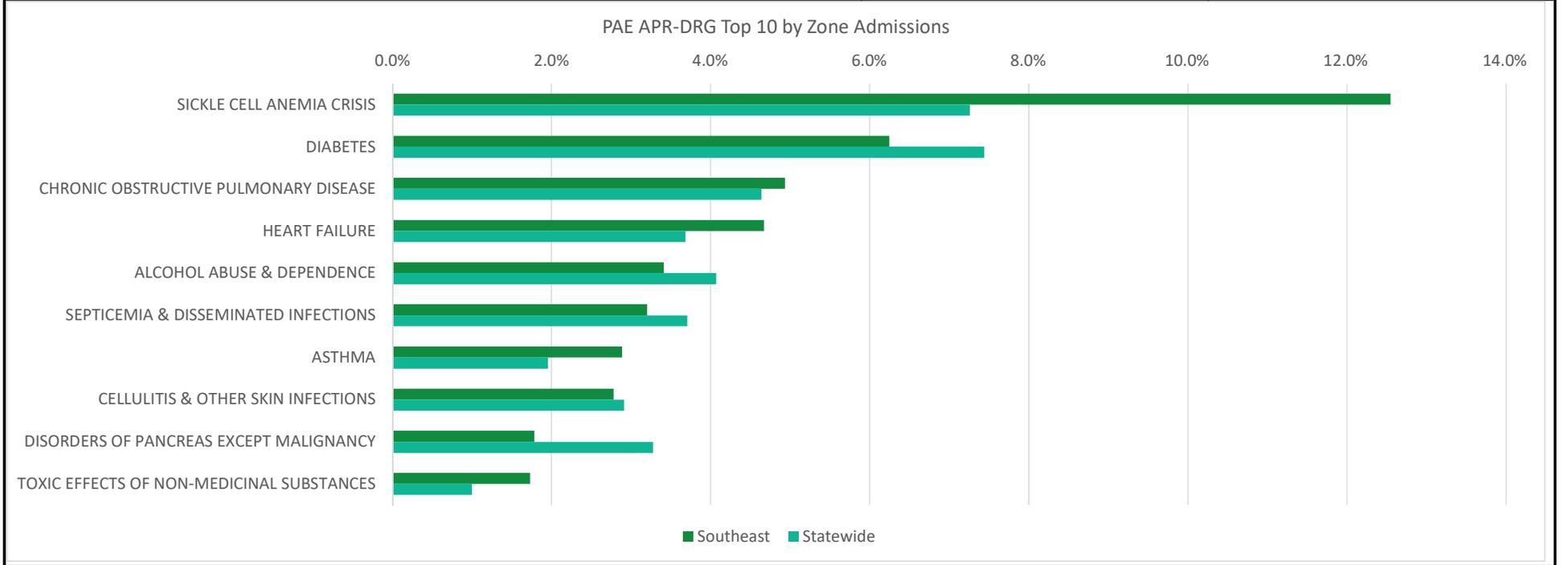
4. Events and Dollars by Age Band and Gender							
Southeast		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	36,168	1,011	2.8%	\$ 447,783,827	\$ 9,408,960	2.1%
All Ages	F	54,916	894	1.6%	\$ 478,825,668	\$ 8,553,587	1.8%
<b>Total</b>		<b>91,084</b>	<b>1,905</b>	<b>2.1%</b>	<b>\$ 926,609,494</b>	<b>\$ 17,962,546</b>	<b>1.9%</b>
Under Age 1		18,645	-	0.0%	\$ 182,394,008	\$ -	0.0%
Years 1-20		13,735	253	1.8%	\$ 154,292,721	\$ 3,284,089	2.1%
Years 21-44		34,770	850	2.4%	\$ 280,087,248	\$ 6,376,931	2.3%
Years 45-64		23,377	786	3.4%	\$ 301,798,306	\$ 8,124,915	2.7%
Years 65+		557	16	2.9%	\$ 8,037,212	\$ 176,612	2.2%
<b>Total</b>		<b>91,084</b>	<b>1,905</b>	<b>2.1%</b>	<b>\$ 926,609,494</b>	<b>\$ 17,962,546</b>	<b>1.9%</b>
Statewide		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	97,005	2,185	2.3%	\$ 1,072,556,025	\$ 20,314,144	1.9%
All Ages	F	155,452	2,211	1.4%	\$ 1,214,872,397	\$ 20,599,217	1.7%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>
Under Age 1		56,621	-	0.0%	\$ 422,565,208	\$ -	0.0%
Years 1-20		33,279	520	1.6%	\$ 357,373,860	\$ 6,088,653	1.7%
Years 21-44		95,780	1,865	1.9%	\$ 697,131,523	\$ 15,303,996	2.2%
Years 45-64		65,624	1,979	3.0%	\$ 795,335,345	\$ 19,231,009	2.4%
Years 65+		1,153	32	2.8%	\$ 15,022,486	\$ 289,703	1.9%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>



Appendix A

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Southeast

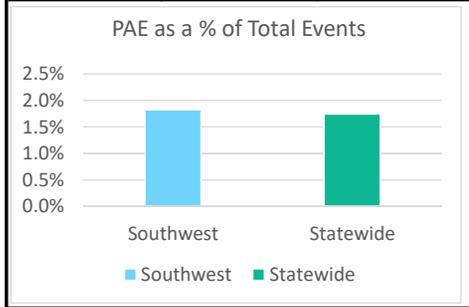
Top 10 PAE by Zone			Southeast			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0662	SICKLE CELL ANEMIA CRISIS	239	\$ 1,480,849	12.5%	319	\$ 2,104,270	7.3%
2	0420	DIABETES	119	\$ 749,643	6.2%	327	\$ 1,954,514	7.4%
3	0140	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	94	\$ 684,965	4.9%	204	\$ 1,554,694	4.6%
4	0194	HEART FAILURE	89	\$ 1,080,676	4.7%	162	\$ 1,948,076	3.7%
5	0775	ALCOHOL ABUSE & DEPENDENCE	65	\$ 342,313	3.4%	179	\$ 806,994	4.1%
6	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	61	\$ 928,946	3.2%	163	\$ 2,320,159	3.7%
7	0141	ASTHMA	55	\$ 309,484	2.9%	86	\$ 475,205	2.0%
8	0383	CELLULITIS & OTHER SKIN INFECTIONS	53	\$ 370,808	2.8%	128	\$ 929,670	2.9%
9	0282	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	34	\$ 252,317	1.8%	144	\$ 1,029,319	3.3%
10	0816	TOXIC EFFECTS OF NON-MEDICINAL SUBSTANCES	33	\$ 271,589	1.7%	44	\$ 352,094	1.0%
All Else			1,063	\$ 11,490,957	55.8%	2,640	\$ 27,438,364	60.1%
<b>Total</b>			<b>1,905</b>	<b>\$ 17,962,546</b>	<b>100.0%</b>	<b>4,396</b>	<b>\$ 40,913,360</b>	<b>100.0%</b>



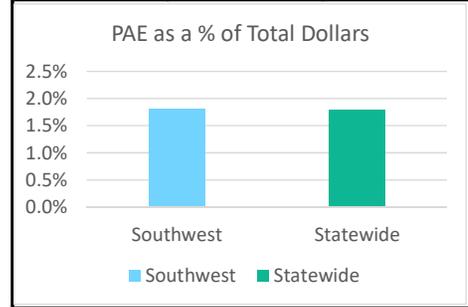
## Appendix A

**PAE Analysis:** Potentially Avoidable Readmissions  
**Program Type:** Physical Health HealthChoices  
**Service Dates:** January 1, 2017 - December 31, 2017  
**Zone:** Southwest

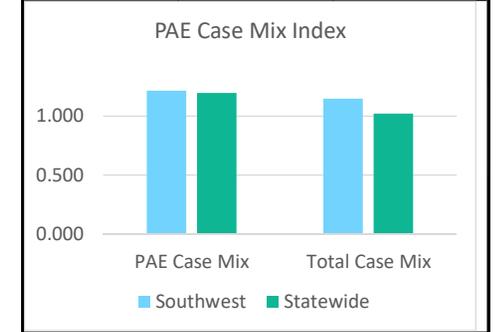
1. Total Events		
	Southwest	Statewide
PAE	975	4,396
Total	53,551	252,457
<b>PAE %</b>	<b>1.8%</b>	<b>1.7%</b>



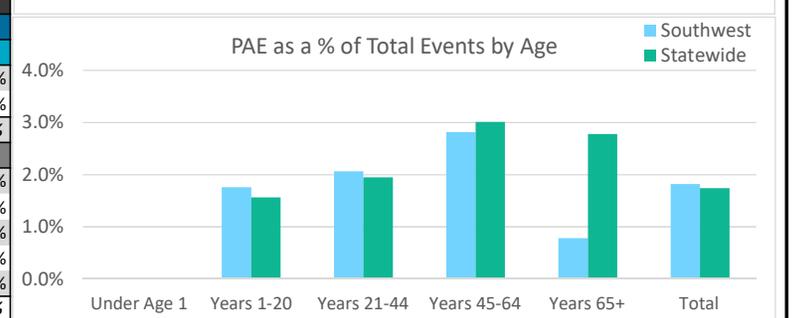
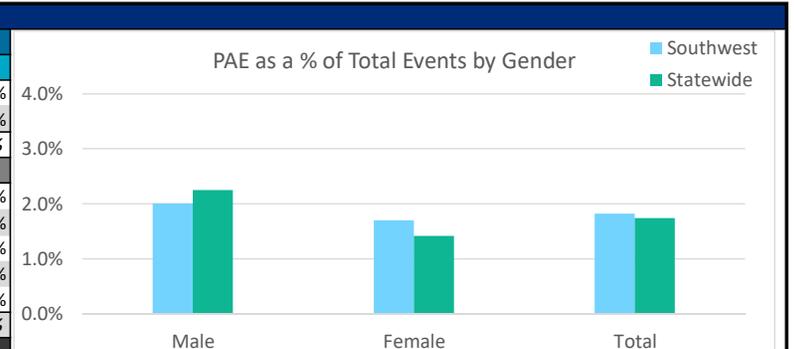
2. Total Dollars		
	Southwest	Statewide
PAE	\$ 9,361,658	\$ 40,913,360
Total	\$ 518,049,621	\$ 2,287,428,422
<b>PAE %</b>	<b>1.8%</b>	<b>1.8%</b>



3. APR-DRG Case Mix Index		
	Southwest	Statewide
PAE Case Mix	1.216	1.197
Total Case Mix	1.147	1.021



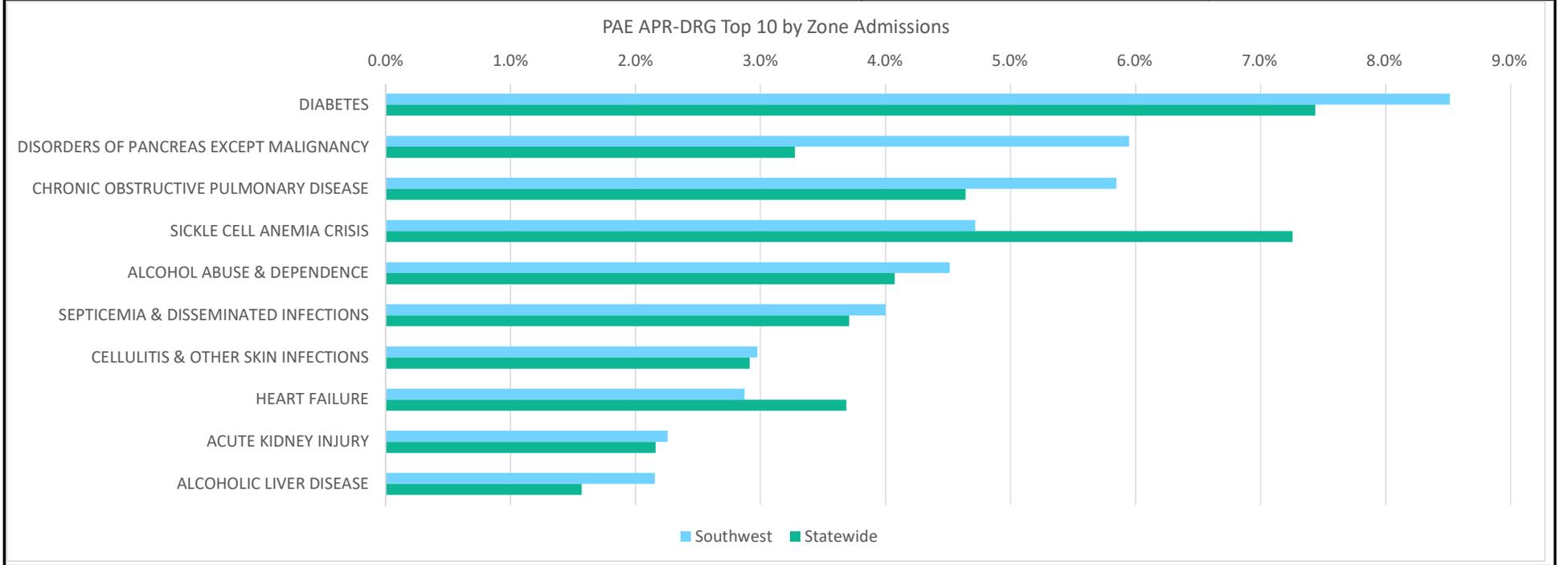
4. Events and Dollars by Age Band and Gender							
Southwest		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	20,655	415	2.0%	\$ 241,418,458	\$ 4,141,846	1.7%
All Ages	F	32,896	560	1.7%	\$ 276,631,163	\$ 5,219,812	1.9%
<b>Total</b>		<b>53,551</b>	<b>975</b>	<b>1.8%</b>	<b>\$ 518,049,621</b>	<b>\$ 9,361,658</b>	<b>1.8%</b>
<b>Statewide</b>							
Under Age 1		11,096	-	0.0%	\$ 87,936,041	\$ -	0.0%
Years 1-20		6,418	113	1.8%	\$ 78,461,794	\$ 1,368,985	1.7%
Years 21-44		19,965	412	2.1%	\$ 154,456,230	\$ 3,576,254	2.3%
Years 45-64		15,944	449	2.8%	\$ 195,557,484	\$ 4,406,676	2.3%
Years 65+		128	1	0.8%	\$ 1,638,072	\$ 9,743	0.6%
<b>Total</b>		<b>53,551</b>	<b>975</b>	<b>1.8%</b>	<b>\$ 518,049,621</b>	<b>\$ 9,361,658</b>	<b>1.8%</b>
<b>Statewide</b>							
Under Age 1		56,621	-	0.0%	\$ 422,565,208	\$ -	0.0%
Years 1-20		33,279	520	1.6%	\$ 357,373,860	\$ 6,088,653	1.7%
Years 21-44		95,780	1,865	1.9%	\$ 697,131,523	\$ 15,303,996	2.2%
Years 45-64		65,624	1,979	3.0%	\$ 795,335,345	\$ 19,231,009	2.4%
Years 65+		1,153	32	2.8%	\$ 15,022,486	\$ 289,703	1.9%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>



## Appendix A

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Southwest

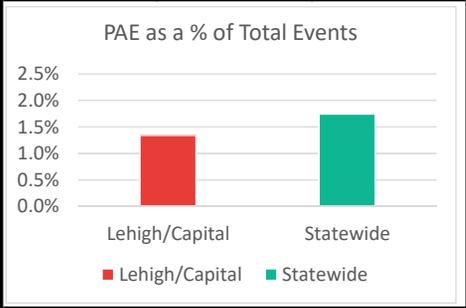
Top 10 PAE by Zone			Southwest			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0420	DIABETES	83	\$ 494,121	8.5%	327	\$ 1,954,514	7.4%
2	0282	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	58	\$ 391,879	5.9%	144	\$ 1,029,319	3.3%
3	0140	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	57	\$ 524,568	5.8%	204	\$ 1,554,694	4.6%
4	0662	SICKLE CELL ANEMIA CRISIS	46	\$ 277,956	4.7%	319	\$ 2,104,270	7.3%
5	0775	ALCOHOL ABUSE & DEPENDENCE	44	\$ 182,499	4.5%	179	\$ 806,994	4.1%
6	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	39	\$ 578,652	4.0%	163	\$ 2,320,159	3.7%
7	0383	CELLULITIS & OTHER SKIN INFECTIONS	29	\$ 218,975	3.0%	128	\$ 929,670	2.9%
8	0194	HEART FAILURE	28	\$ 328,208	2.9%	162	\$ 1,948,076	3.7%
9	0469	ACUTE KIDNEY INJURY	22	\$ 216,288	2.3%	95	\$ 1,023,679	2.2%
10	0280	ALCOHOLIC LIVER DISEASE	21	\$ 230,817	2.2%	69	\$ 761,028	1.6%
All Else			548	\$ 5,917,694	56.2%	2,606	\$ 26,480,957	59.3%
<b>Total</b>			<b>975</b>	<b>\$ 9,361,658</b>	<b>100.0%</b>	<b>4,396</b>	<b>\$ 40,913,360</b>	<b>100.0%</b>



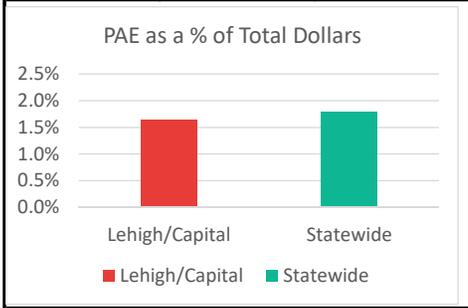
Appendix A

**PAE Analysis:** Potentially Avoidable Readmissions  
**Program Type:** Physical Health HealthChoices  
**Service Dates:** January 1, 2017 - December 31, 2017  
**Zone:** Lehigh/Capital

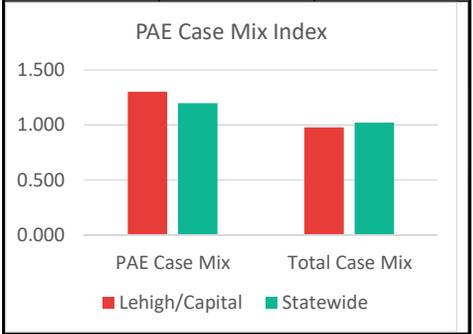
1. Total Events		
	Lehigh/Capital	Statewide
PAE	683	4,396
Total	50,945	252,457
PAE %	1.3%	1.7%



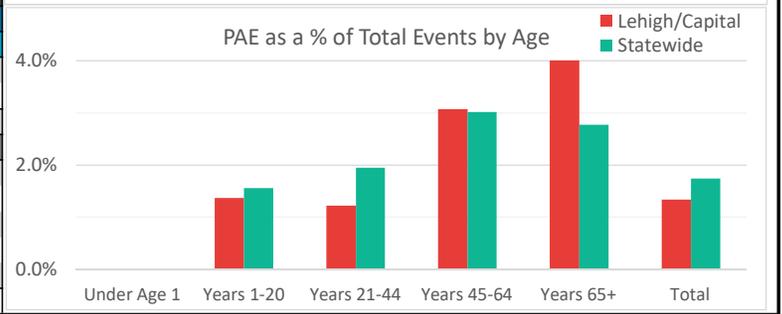
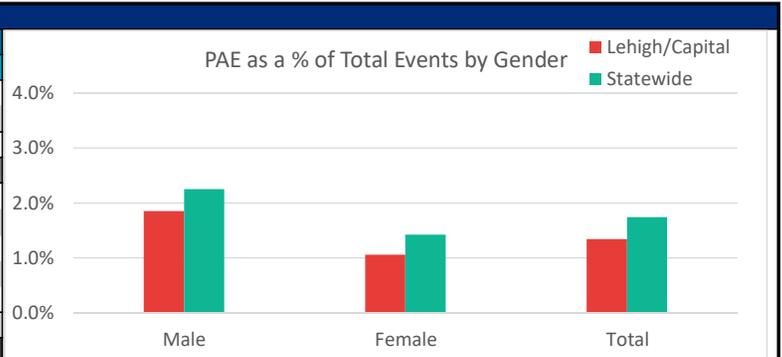
2. Total Dollars		
	Lehigh/Capital	Statewide
PAE	\$ 6,841,147	\$ 40,913,360
Total	\$ 415,359,720	\$ 2,287,428,422
PAE %	1.6%	1.8%



3. APR-DRG Case Mix Index		
	Lehigh/Capital	Statewide
PAE Case Mix	1.304	1.197
Total Case Mix	0.978	1.021



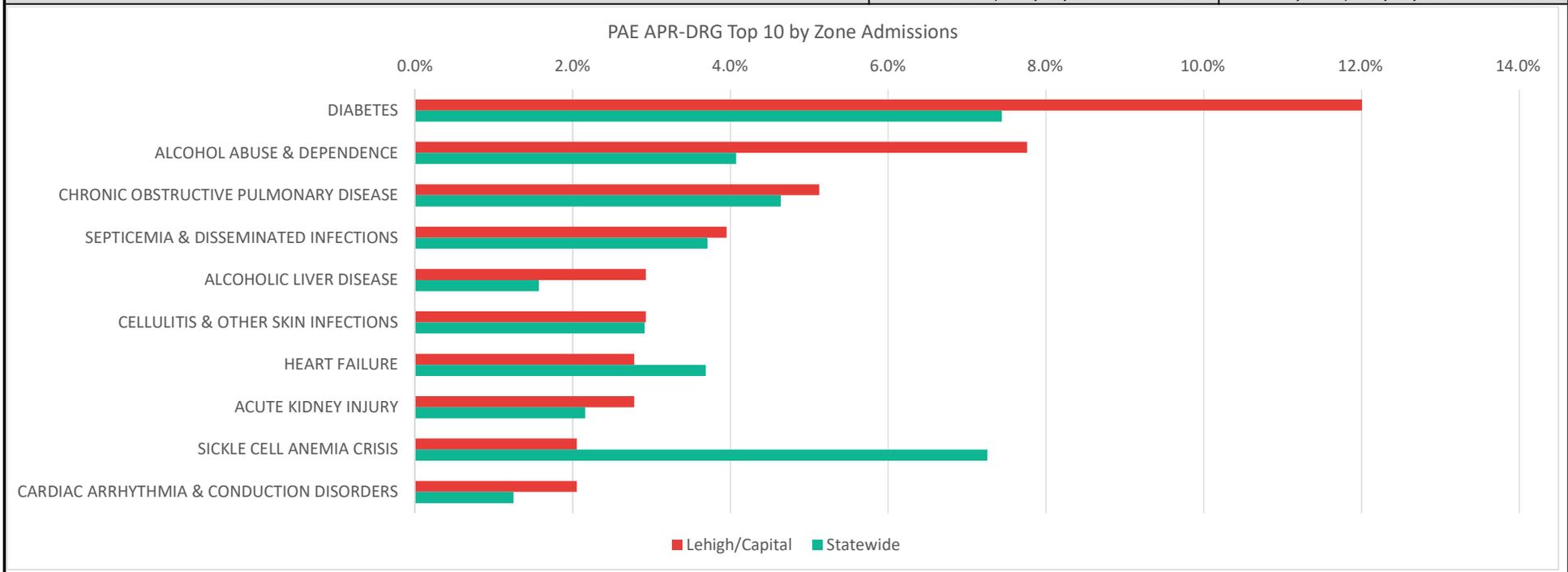
4. Events and Dollars by Age Band and Gender							
Lehigh/Capital		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	18,275	338	1.8%	\$ 183,910,117	\$ 3,433,189	1.9%
All Ages	F	32,670	345	1.1%	\$ 231,449,603	\$ 3,407,958	1.5%
<b>Total</b>		<b>50,945</b>	<b>683</b>	<b>1.3%</b>	<b>\$ 415,359,720</b>	<b>\$ 6,841,147</b>	<b>1.6%</b>
Under Age 1		13,533	-	0.0%	\$ 77,396,937	\$ -	0.0%
Years 1-20		6,077	83	1.4%	\$ 55,330,942	\$ 886,335	1.6%
Years 21-44		19,790	242	1.2%	\$ 135,126,751	\$ 2,596,792	1.9%
Years 45-64		11,264	346	3.1%	\$ 144,096,731	\$ 3,272,403	2.3%
Years 65+		281	12	4.3%	\$ 3,408,359	\$ 85,617	2.5%
<b>Total</b>		<b>50,945</b>	<b>683</b>	<b>1.3%</b>	<b>\$ 415,359,720</b>	<b>\$ 6,841,147</b>	<b>1.6%</b>
Statewide		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	97,005	2,185	2.3%	\$ 1,072,556,025	\$ 20,314,144	1.9%
All Ages	F	155,452	2,211	1.4%	\$ 1,214,872,397	\$ 20,599,217	1.7%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>
Under Age 1		56,621	-	0.0%	\$ 422,565,208	\$ -	0.0%
Years 1-20		33,279	520	1.6%	\$ 357,373,860	\$ 6,088,653	1.7%
Years 21-44		95,780	1,865	1.9%	\$ 697,131,523	\$ 15,303,996	2.2%
Years 45-64		65,624	1,979	3.0%	\$ 795,335,345	\$ 19,231,009	2.4%
Years 65+		1,153	32	2.8%	\$ 15,022,486	\$ 289,703	1.9%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>



## Appendix A

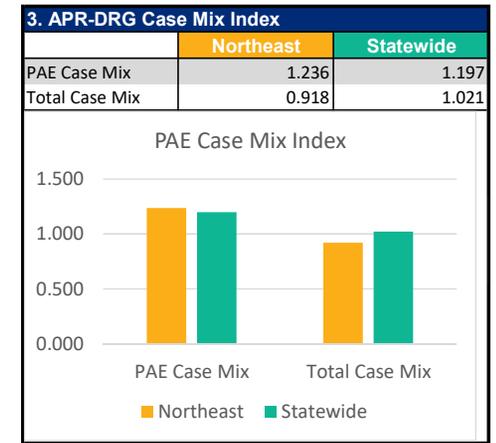
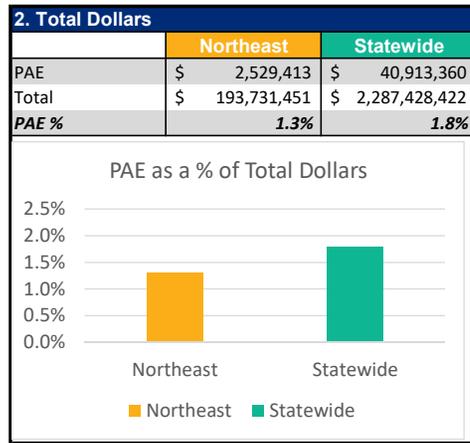
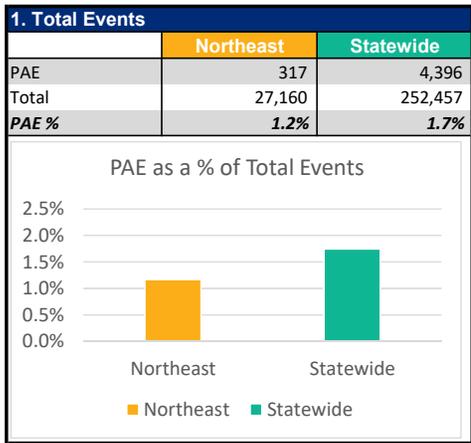
<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Lehigh/Capital

Top 10 PAE by Zone			Lehigh/Capital			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0420	DIABETES	82	\$ 482,669	12.0%	327	\$ 1,954,514	7.4%
2	0775	ALCOHOL ABUSE & DEPENDENCE	53	\$ 220,990	7.8%	179	\$ 806,994	4.1%
3	0140	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	35	\$ 260,120	5.1%	204	\$ 1,554,694	4.6%
4	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	27	\$ 489,550	4.0%	163	\$ 2,320,159	3.7%
5	0280	ALCOHOLIC LIVER DISEASE	20	\$ 237,076	2.9%	69	\$ 761,028	1.6%
6	0383	CELLULITIS & OTHER SKIN INFECTIONS	20	\$ 168,338	2.9%	128	\$ 929,670	2.9%
7	0194	HEART FAILURE	19	\$ 322,944	2.8%	162	\$ 1,948,076	3.7%
8	0469	ACUTE KIDNEY INJURY	19	\$ 233,382	2.8%	95	\$ 1,023,679	2.2%
9	0662	SICKLE CELL ANEMIA CRISIS	14	\$ 251,807	2.0%	319	\$ 2,104,270	7.3%
10	0201	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS	14	\$ 112,748	2.0%	55	\$ 357,868	1.3%
All Else			380	\$ 4,061,522	55.6%	2,695	\$ 27,152,408	61.3%
<b>Total</b>			<b>683</b>	<b>\$ 6,841,147</b>	<b>100.0%</b>	<b>4,396</b>	<b>\$ 40,913,360</b>	<b>100.0%</b>

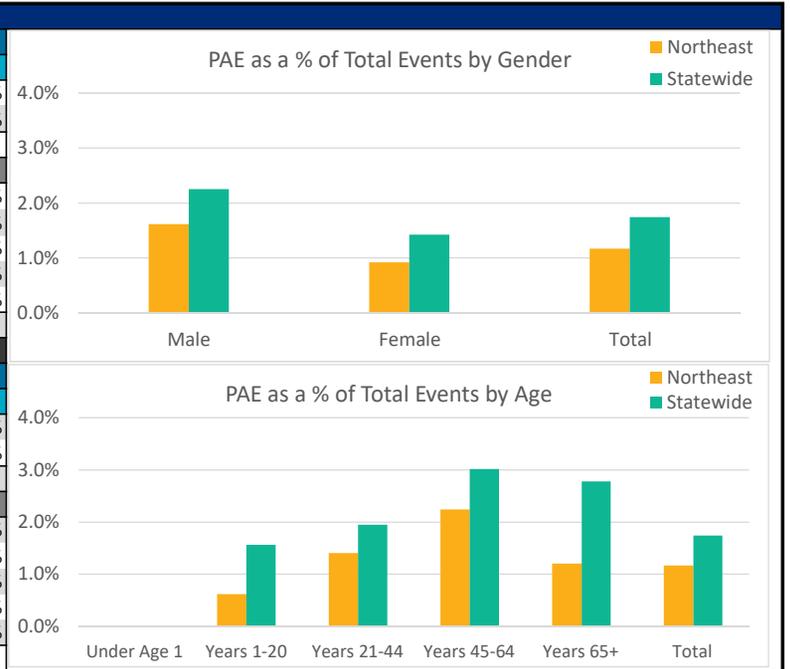


Appendix A

**PAE Analysis:** Potentially Avoidable Readmissions  
**Program Type:** Physical Health HealthChoices  
**Service Dates:** January 1, 2017 - December 31, 2017  
**Zone:** Northeast



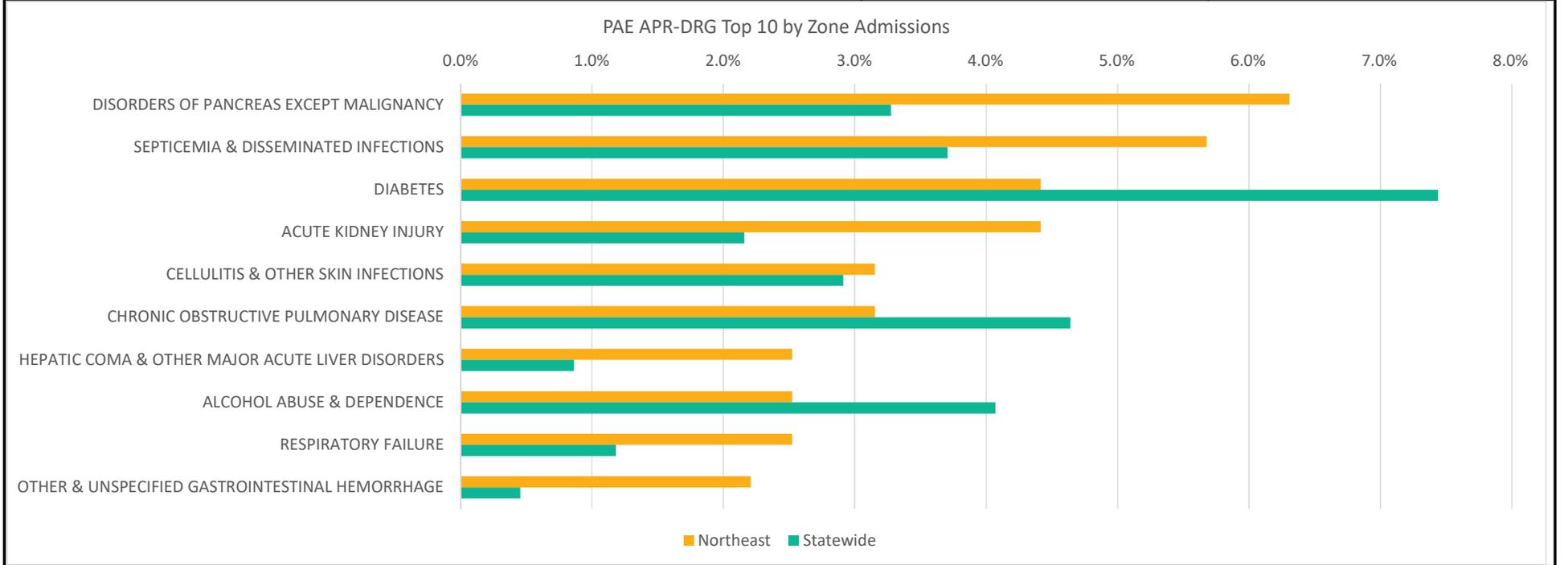
4. Events and Dollars by Age Band and Gender							
Northeast		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	9,867	159	1.6%	\$ 81,915,942	\$ 1,151,711	1.4%
All Ages	F	17,293	158	0.9%	\$ 111,815,509	\$ 1,377,701	1.2%
<b>Total</b>		<b>27,160</b>	<b>317</b>	<b>1.2%</b>	<b>\$ 193,731,451</b>	<b>\$ 2,529,413</b>	<b>1.3%</b>
Under Age 1		6,966	-	0.0%	\$ 27,257,334	\$ -	0.0%
Years 1-20		2,925	18	0.6%	\$ 19,789,990	\$ 181,258	0.9%
Years 21-44		10,450	147	1.4%	\$ 66,876,454	\$ 1,142,587	1.7%
Years 45-64		6,736	151	2.2%	\$ 78,663,261	\$ 1,201,415	1.5%
Years 65+		83	1	1.2%	\$ 1,144,412	\$ 4,152	0.4%
<b>Total</b>		<b>27,160</b>	<b>317</b>	<b>1.2%</b>	<b>\$ 193,731,451</b>	<b>\$ 2,529,413</b>	<b>1.3%</b>
Statewide		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	97,005	2,185	2.3%	\$ 1,072,556,025	\$ 20,314,144	1.9%
All Ages	F	155,452	2,211	1.4%	\$ 1,214,872,397	\$ 20,599,217	1.7%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>
Under Age 1		56,621	-	0.0%	\$ 422,565,208	\$ -	0.0%
Years 1-20		33,279	520	1.6%	\$ 357,373,860	\$ 6,088,653	1.7%
Years 21-44		95,780	1,865	1.9%	\$ 697,131,523	\$ 15,303,996	2.2%
Years 45-64		65,624	1,979	3.0%	\$ 795,335,345	\$ 19,231,009	2.4%
Years 65+		1,153	32	2.8%	\$ 15,022,486	\$ 289,703	1.9%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>



## Appendix A

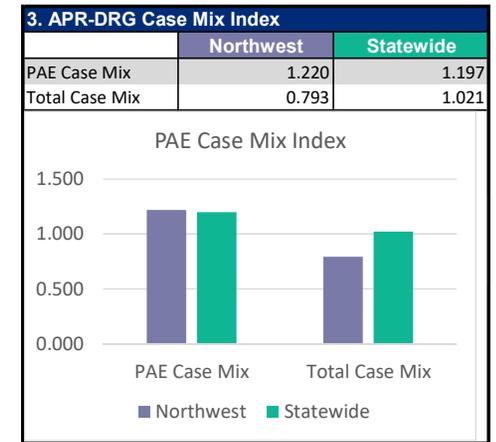
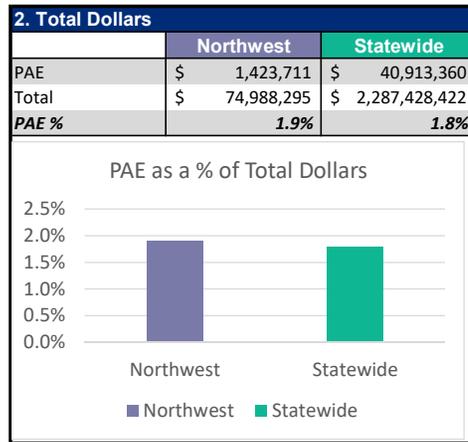
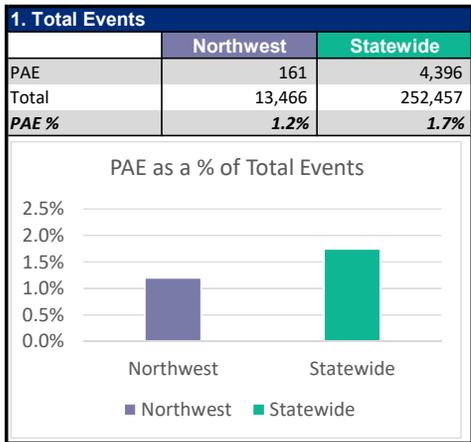
<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Northeast

Top 10 PAE by Zone			Northeast			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0282	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	20	\$ 118,376	6.3%	144	\$ 1,029,319	3.3%
2	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	18	\$ 171,114	5.7%	163	\$ 2,320,159	3.7%
3	0420	DIABETES	14	\$ 79,586	4.4%	327	\$ 1,954,514	7.4%
4	0469	ACUTE KIDNEY INJURY	14	\$ 53,780	4.4%	95	\$ 1,023,679	2.2%
5	0383	CELLULITIS & OTHER SKIN INFECTIONS	10	\$ 61,989	3.2%	128	\$ 929,670	2.9%
6	0140	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	10	\$ 41,646	3.2%	204	\$ 1,554,694	4.6%
7	0279	HEPATIC COMA & OTHER MAJOR ACUTE LIVER DISORDERS	8	\$ 63,490	2.5%	38	\$ 363,716	0.9%
8	0775	ALCOHOL ABUSE & DEPENDENCE	8	\$ 38,958	2.5%	179	\$ 806,994	4.1%
9	0133	RESPIRATORY FAILURE	8	\$ 32,143	2.5%	52	\$ 760,848	1.2%
10	0253	OTHER & UNSPECIFIED GASTROINTESTINAL HEMORRHAGE	7	\$ 132,781	2.2%	20	\$ 247,613	0.5%
All Else			200	\$ 1,735,550	63.1%	3,046	\$ 29,922,154	69.3%
<b>Total</b>			<b>317</b>	<b>\$ 2,529,413</b>	<b>100.0%</b>	<b>4,396</b>	<b>\$ 40,913,360</b>	<b>100.0%</b>



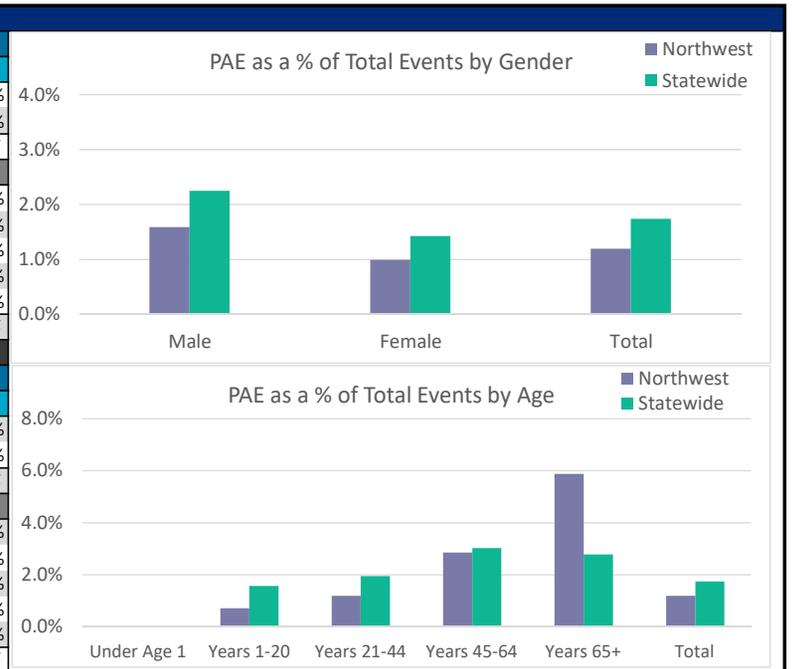
## Appendix A

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Northwest



### 4. Events and Dollars by Age Band and Gender

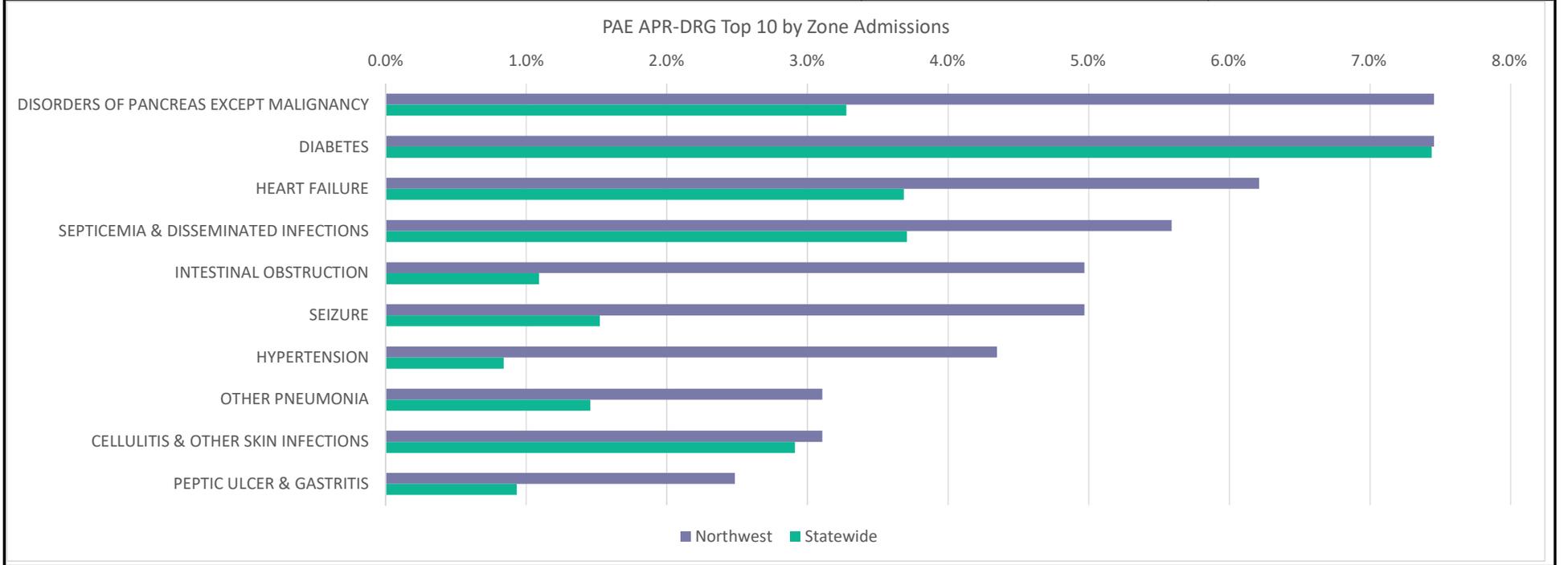
Northwest		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	4,600	73	1.6%	\$ 30,147,591	\$ 530,249	1.8%
All Ages	F	8,866	88	1.0%	\$ 44,840,704	\$ 893,462	2.0%
<b>Total</b>		<b>13,466</b>	<b>161</b>	<b>1.2%</b>	<b>\$ 74,988,295</b>	<b>\$ 1,423,711</b>	<b>1.9%</b>
Under Age 1		3,911	-	0.0%	\$ 11,387,360	\$ -	0.0%
Years 1-20		1,130	8	0.7%	\$ 4,543,716	\$ 51,708	1.1%
Years 21-44		5,285	63	1.2%	\$ 27,760,619	\$ 496,674	1.8%
Years 45-64		3,123	89	2.8%	\$ 31,114,253	\$ 861,751	2.8%
Years 65+		17	1	5.9%	\$ 182,347	\$ 13,578	7.4%
<b>Total</b>		<b>13,466</b>	<b>161</b>	<b>1.2%</b>	<b>\$ 74,988,295</b>	<b>\$ 1,423,711</b>	<b>1.9%</b>
Statewide		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	97,005	2,185	2.3%	\$ 1,072,556,025	\$ 20,314,144	1.9%
All Ages	F	155,452	2,211	1.4%	\$ 1,214,872,397	\$ 20,599,217	1.7%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>
Under Age 1		56,621	-	0.0%	\$ 422,565,208	\$ -	0.0%
Years 1-20		33,279	520	1.6%	\$ 357,373,860	\$ 6,088,653	1.7%
Years 21-44		95,780	1,865	1.9%	\$ 697,131,523	\$ 15,303,996	2.2%
Years 45-64		65,624	1,979	3.0%	\$ 795,335,345	\$ 19,231,009	2.4%
Years 65+		1,153	32	2.8%	\$ 15,022,486	\$ 289,703	1.9%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>



## Appendix A

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Northwest

Top 10 PAE by Zone			Northwest			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0282	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	12	\$ 83,739	7.5%	144	\$ 1,029,319	3.3%
2	0420	DIABETES	12	\$ 54,695	7.5%	327	\$ 1,954,514	7.4%
3	0194	HEART FAILURE	10	\$ 78,909	6.2%	162	\$ 1,948,076	3.7%
4	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	9	\$ 76,395	5.6%	163	\$ 2,320,159	3.7%
5	0247	INTESTINAL OBSTRUCTION	8	\$ 57,084	5.0%	48	\$ 445,747	1.1%
6	0053	SEIZURE	8	\$ 17,357	5.0%	67	\$ 387,280	1.5%
7	0199	HYPERTENSION	7	\$ 33,622	4.3%	37	\$ 264,340	0.8%
8	0139	OTHER PNEUMONIA	5	\$ 48,211	3.1%	64	\$ 668,655	1.5%
9	0383	CELLULITIS & OTHER SKIN INFECTIONS	5	\$ 45,253	3.1%	128	\$ 929,670	2.9%
10	0241	PEPTIC ULCER & GASTRITIS	4	\$ 40,100	2.5%	41	\$ 261,798	0.9%
All Else			81	\$ 888,344	50.3%	3,215	\$ 30,703,802	73.1%
<b>Total</b>			<b>161</b>	<b>\$ 1,423,711</b>	<b>100.0%</b>	<b>4,396</b>	<b>\$ 40,913,360</b>	<b>100.0%</b>



# 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.

#### Detailed Description of Tables

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

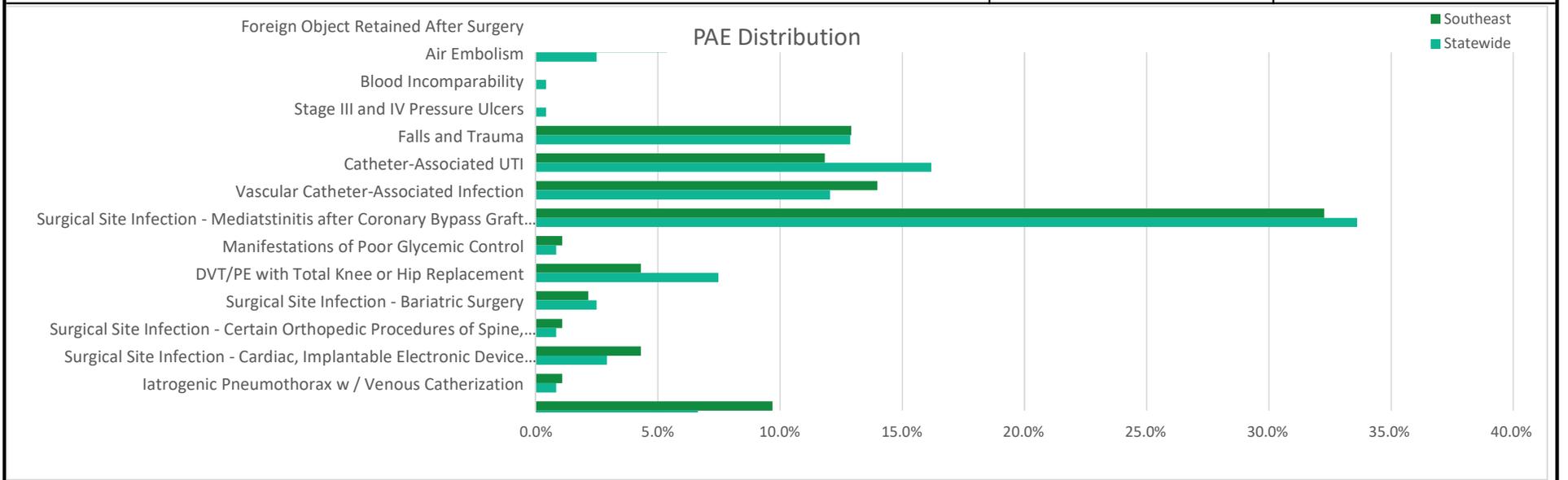
#### Additional Notes Regarding Data

1. Admits and Dollars for CY 2017 service dates are based on PH-MCO encounter data submitted through September 30, 2018.
2. Inpatient is defined as admits with a claim type of "I" or "A".
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

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Southeast

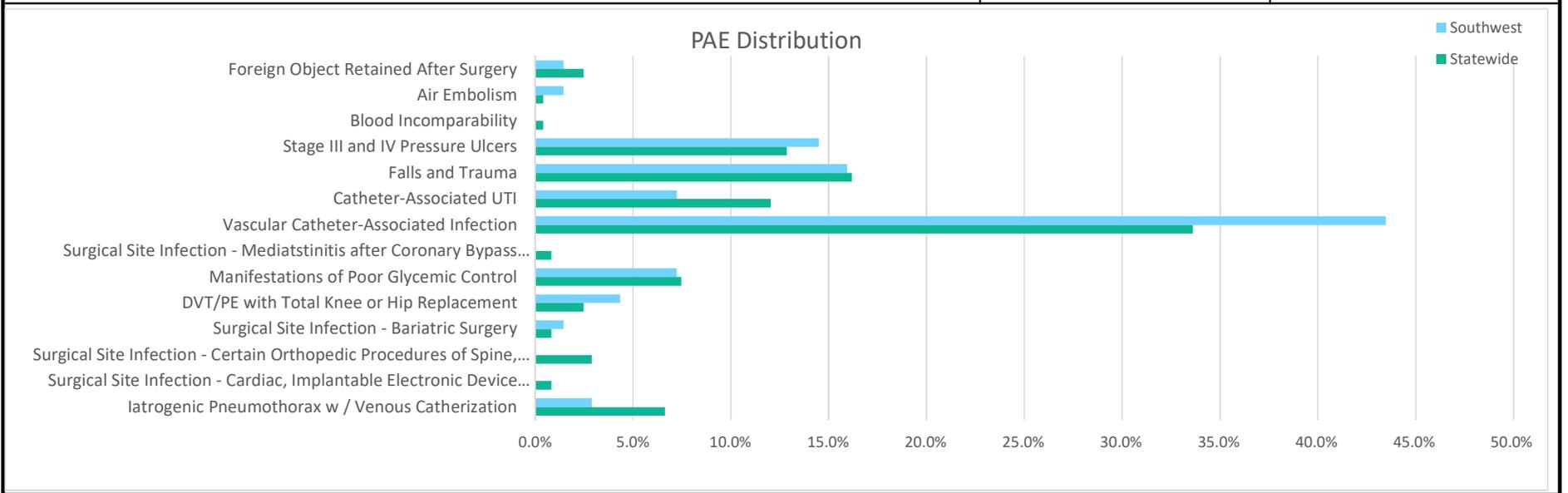
1. Events by Potentially Avoidable Complications		Southeast		Statewide	
		PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	5	5.4%	6	2.5%
2	Air Embolism	-	0.0%	1	0.4%
3	Blood Incomparability	-	0.0%	1	0.4%
4	Stage III and IV Pressure Ulcers	12	12.9%	31	12.9%
5	Falls and Trauma	11	11.8%	39	16.2%
6	Catheter-Associated UTI	13	14.0%	29	12.0%
7	Vascular Catheter-Associated Infection	30	32.3%	81	33.6%
8	Surgical Site Infection - Mediatstinitis after Coronary Bypass Graft (CABG)	1	1.1%	2	0.8%
9	Manifestations of Poor Glycemic Control	4	4.3%	18	7.5%
10	DVT/PE with Total Knee or Hip Replacement	2	2.2%	6	2.5%
11	Surgical Site Infection - Bariatric Surgery	1	1.1%	2	0.8%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	4	4.3%	7	2.9%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	1	1.1%	2	0.8%
14	Iatrogenic Pneumothorax w / Venous Catherization	9	9.7%	16	6.6%
<b>Total</b>		<b>93</b>	<b>100.0%</b>	<b>241</b>	<b>100.0%</b>



## Appendix B

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Southwest

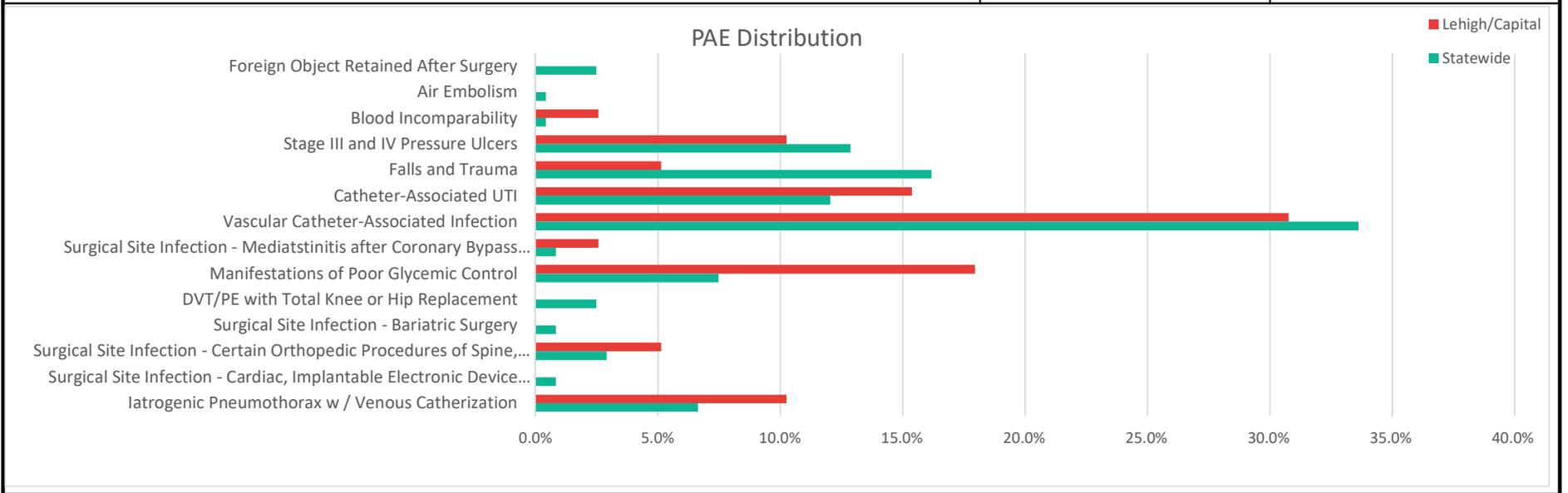
1. Events by Potentially Avoidable Complication		Southwest		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	1	1.4%	6	2.5%
2	Air Embolism	1	1.4%	1	0.4%
3	Blood Incomparability	-	0.0%	1	0.4%
4	Stage III and IV Pressure Ulcers	10	14.5%	31	12.9%
5	Falls and Trauma	11	15.9%	39	16.2%
6	Catheter-Associated UTI	5	7.2%	29	12.0%
7	Vascular Catheter-Associated Infection	30	43.5%	81	33.6%
8	Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG)	-	0.0%	2	0.8%
9	Manifestations of Poor Glycemic Control	5	7.2%	18	7.5%
10	DVT/PE with Total Knee or Hip Replacement	3	4.3%	6	2.5%
11	Surgical Site Infection - Bariatric Surgery	1	1.4%	2	0.8%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	7	2.9%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	2	0.8%
14	Iatrogenic Pneumothorax w / Venous Catherization	2	2.9%	16	6.6%
<b>Total</b>		<b>69</b>	<b>100.0%</b>	<b>241</b>	<b>100.0%</b>



## Appendix B

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Lehigh/Capital

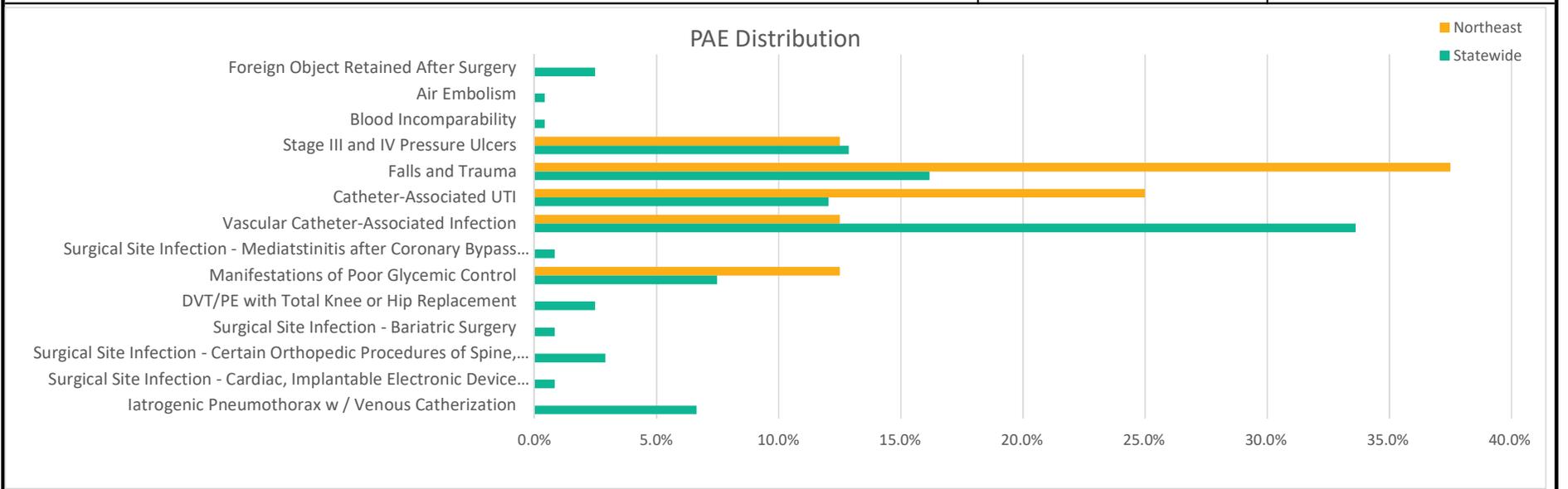
1. Events by Potentially Avoidable Complication		Lehigh/Capital		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	-	0.0%	6	2.5%
2	Air Embolism	-	0.0%	1	0.4%
3	Blood Incomparability	1	2.6%	1	0.4%
4	Stage III and IV Pressure Ulcers	4	10.3%	31	12.9%
5	Falls and Trauma	2	5.1%	39	16.2%
6	Catheter-Associated UTI	6	15.4%	29	12.0%
7	Vascular Catheter-Associated Infection	12	30.8%	81	33.6%
8	Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG)	1	2.6%	2	0.8%
9	Manifestations of Poor Glycemic Control	7	17.9%	18	7.5%
10	DVT/PE with Total Knee or Hip Replacement	-	0.0%	6	2.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	2	0.8%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	2	5.1%	7	2.9%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	2	0.8%
14	Iatrogenic Pneumothorax w / Venous Catherization	4	10.3%	16	6.6%
<b>Total</b>		<b>39</b>	<b>100.0%</b>	<b>241</b>	<b>100.0%</b>



## Appendix B

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Northeast

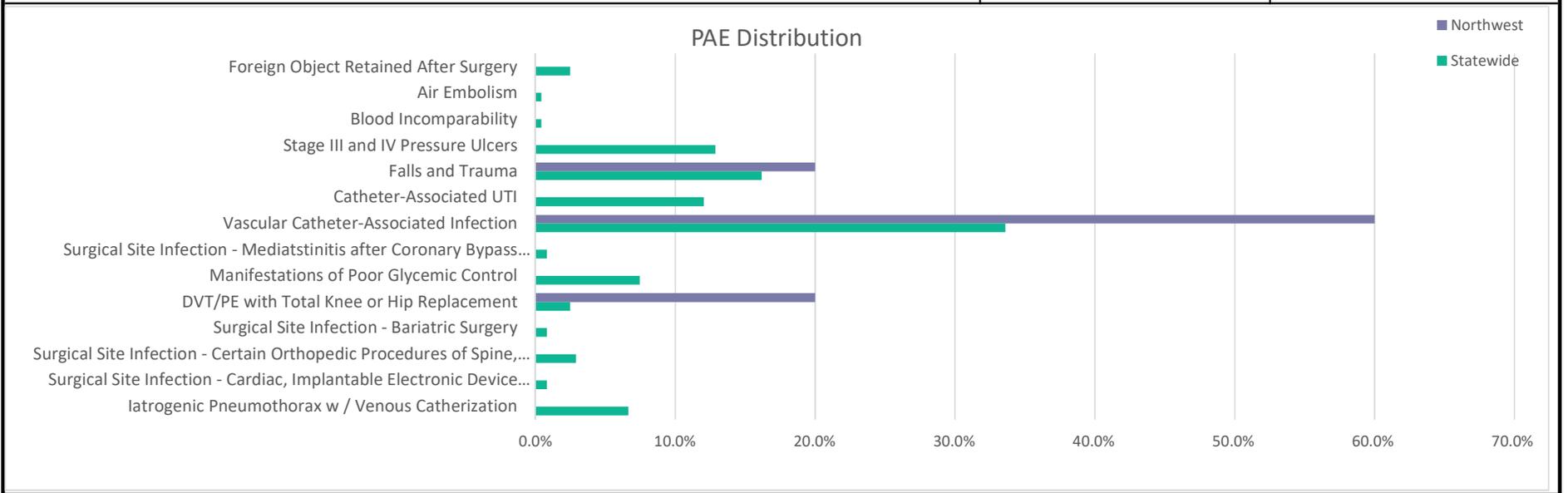
1. Events by Potentially Avoidable Complication		Northeast		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	-	0.0%	6	2.5%
2	Air Embolism	-	0.0%	1	0.4%
3	Blood Incomparability	-	0.0%	1	0.4%
4	Stage III and IV Pressure Ulcers	1	12.5%	31	12.9%
5	Falls and Trauma	3	37.5%	39	16.2%
6	Catheter-Associated UTI	2	25.0%	29	12.0%
7	Vascular Catheter-Associated Infection	1	12.5%	81	33.6%
8	Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG)	-	0.0%	2	0.8%
9	Manifestations of Poor Glycemic Control	1	12.5%	18	7.5%
10	DVT/PE with Total Knee or Hip Replacement	-	0.0%	6	2.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	2	0.8%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	7	2.9%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	2	0.8%
14	Iatrogenic Pneumothorax w / Venous Catherization	-	0.0%	16	6.6%
<b>Total</b>		<b>8</b>	<b>100.0%</b>	<b>241</b>	<b>100.0%</b>



## Appendix B

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Northwest

1. Events by Potentially Avoidable Complication		Northwest		Statewide	
		PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	-	0.0%	6	2.5%
2	Air Embolism	-	0.0%	1	0.4%
3	Blood Incomparability	-	0.0%	1	0.4%
4	Stage III and IV Pressure Ulcers	-	0.0%	31	12.9%
5	Falls and Trauma	1	20.0%	39	16.2%
6	Catheter-Associated UTI	-	0.0%	29	12.0%
7	Vascular Catheter-Associated Infection	3	60.0%	81	33.6%
8	Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG)	-	0.0%	2	0.8%
9	Manifestations of Poor Glycemic Control	-	0.0%	18	7.5%
10	DVT/PE with Total Knee or Hip Replacement	1	20.0%	6	2.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	2	0.8%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	7	2.9%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	2	0.8%
14	Iatrogenic Pneumothorax w / Venous Catherization	-	0.0%	16	6.6%
<b>Total</b>		<b>5</b>	<b>100.0%</b>	<b>241</b>	<b>100.0%</b>



# 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.

#### 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 potentially avoidable readmissions 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 potentially avoidable readmissions within the zone. These values are displayed at both the zone and statewide level.

#### Additional Notes Regarding Data

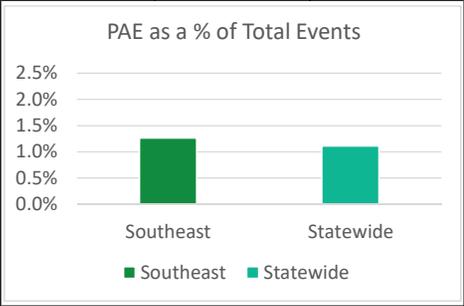
1. Admits and dollars for CY 2017 service dates are based on FFS claims data submitted through September 30, 2018.

2. Inpatient is defined as admits with a claim type of "I".
3. APR-DRGs are assigned by PROMISE system and represent a mix of APR-DRG versions 34 and 35 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 PROMISE eligibility.
7. Claims with revenue code 0762 and no room and board code, indicating an observation stay, were excluded from PAR.
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.

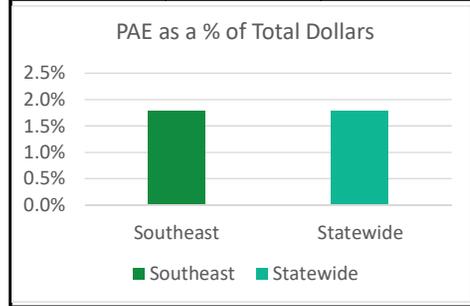
Appendix C

**PAE Analysis:** Potentially Avoidable Readmissions  
**Program Type:** Fee-For-Service  
**Service Dates:** January 1, 2017 - December 31, 2017  
**Zone:** Southeast

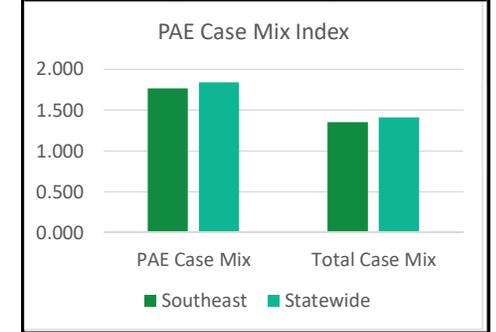
1. Total Events		
	Southeast	Statewide
PAE	192	402
Total	15,210	36,206
<b>PAE %</b>	<b>1.3%</b>	<b>1.1%</b>



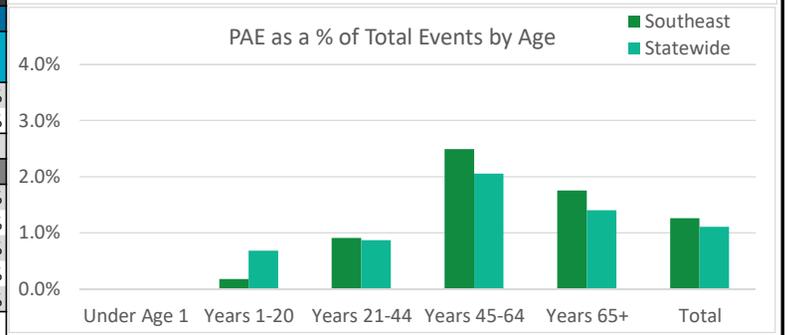
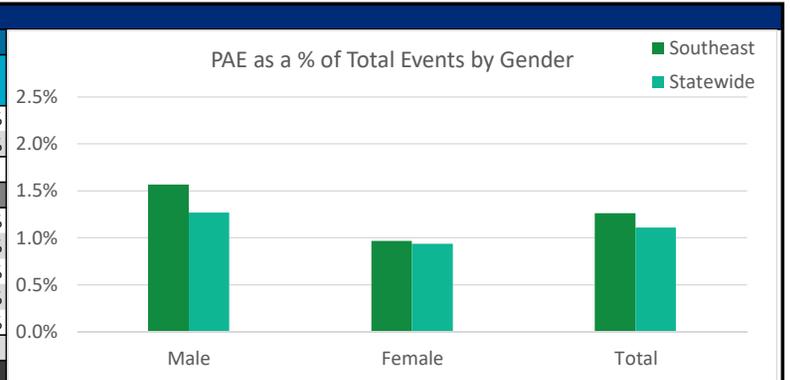
2. Total Dollars		
	Southeast	Statewide
PAE	\$ 3,325,492	\$ 7,671,409
Total	\$ 187,619,593	\$ 430,402,787
<b>PAE %</b>	<b>1.8%</b>	<b>1.8%</b>



3. APR-DRG Case Mix Index		
	Southeast	Statewide
PAE Case Mix	1.765	1.840
Total Case Mix	1.350	1.414



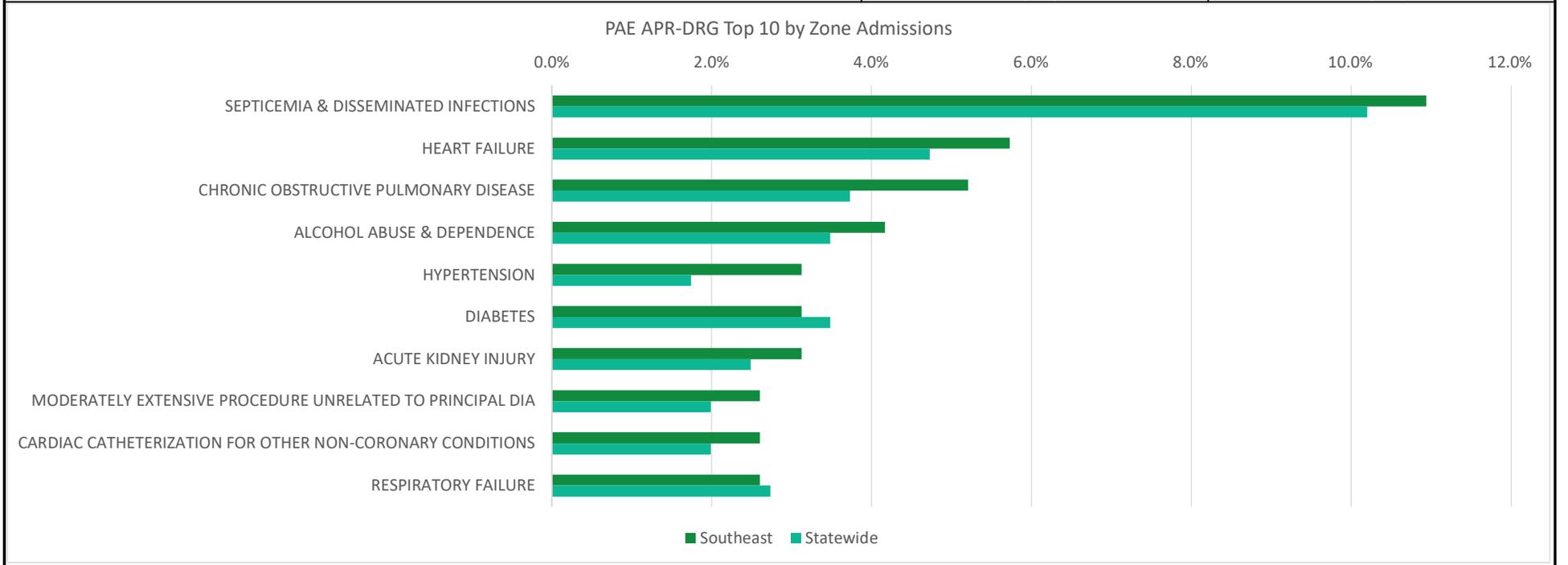
4. Events and Dollars by Age Band and Gender							
Southeast		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	7,457	117	1.6%	\$ 111,505,485	\$ 1,656,234	1.5%
All Ages	F	7,753	75	1.0%	\$ 76,114,108	\$ 1,669,258	2.2%
<b>Total</b>		<b>15,210</b>	<b>192</b>	<b>1.3%</b>	<b>\$ 187,619,593</b>	<b>\$ 3,325,492</b>	<b>1.8%</b>
Under Age 1		3,107	-	0.0%	\$ 28,190,114	\$ -	0.0%
Years 1-20		574	1	0.2%	\$ 6,743,169	\$ 4,009	0.1%
Years 21-44		5,616	51	0.9%	\$ 57,446,780	\$ 578,184	1.0%
Years 45-64		4,889	122	2.5%	\$ 78,681,625	\$ 2,397,226	3.0%
Years 65+		1,024	18	1.8%	\$ 16,557,904	\$ 346,074	2.1%
<b>Total</b>		<b>15,210</b>	<b>192</b>	<b>1.3%</b>	<b>\$ 187,619,593</b>	<b>\$ 3,325,492</b>	<b>1.8%</b>
Statewide		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	18,724	238	1.3%	\$ 267,094,886	\$ 4,696,798	1.8%
All Ages	F	17,482	164	0.9%	\$ 163,307,901	\$ 2,974,611	1.8%
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>	<b>1.8%</b>
Under Age 1		7,401	-	0.0%	\$ 58,239,184	\$ -	0.0%
Years 1-20		1,614	11	0.7%	\$ 14,588,336	\$ 78,338	0.5%
Years 21-44		13,020	113	0.9%	\$ 135,495,843	\$ 2,101,206	1.6%
Years 45-64		12,177	250	2.1%	\$ 190,820,620	\$ 4,878,146	2.6%
Years 65+		1,994	28	1.4%	\$ 31,258,803	\$ 613,719	2.0%
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>	<b>1.8%</b>



### Appendix C

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Fee-For-Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Southeast

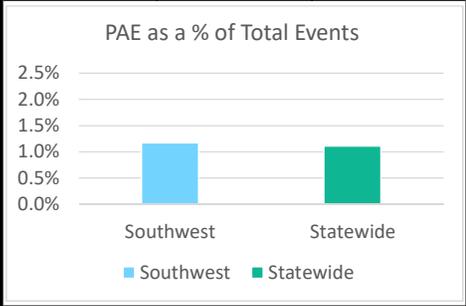
Top 10 PAE by Zone			Southeast			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	21	\$ 951,645	10.9%	41	\$ 1,280,378	10.2%
2	0194	HEART FAILURE	11	\$ 154,300	5.7%	19	\$ 242,449	4.7%
3	0140	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	10	\$ 97,480	5.2%	15	\$ 235,497	3.7%
4	0775	ALCOHOL ABUSE & DEPENDENCE	8	\$ 26,051	4.2%	14	\$ 53,955	3.5%
5	0199	HYPERTENSION	6	\$ 75,990	3.1%	7	\$ 84,577	1.7%
6	0420	DIABETES	6	\$ 74,604	3.1%	14	\$ 121,306	3.5%
7	0469	ACUTE KIDNEY INJURY	6	\$ 49,902	3.1%	10	\$ 73,694	2.5%
8	0951	MODERATELY EXTENSIVE PROCEDURE UNRELATED TO PRINCIPAL DIA	5	\$ 101,841	2.6%	8	\$ 123,008	2.0%
9	0192	CARDIAC CATHETERIZATION FOR OTHER NON-CORONARY CONDITIONS	5	\$ 98,652	2.6%	8	\$ 173,661	2.0%
10	0133	RESPIRATORY FAILURE	5	\$ 63,510	2.6%	11	\$ 119,712	2.7%
		All Else	109	\$ 1,631,516	56.8%	255	\$ 5,163,173	63.4%
		<b>Total</b>	<b>192</b>	<b>\$ 3,325,492</b>	<b>100.0%</b>	<b>402</b>	<b>\$ 7,671,409</b>	<b>100.0%</b>



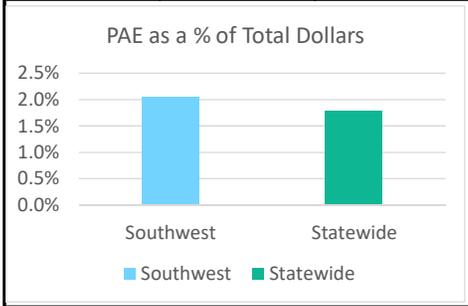
Appendix C

**PAE Analysis:** Potentially Avoidable Readmissions  
**Program Type:** Fee-For-Service  
**Service Dates:** January 1, 2017 - December 31, 2017  
**Zone:** Southwest

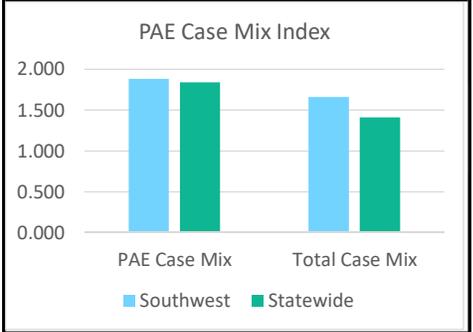
1. Total Events		
	Southwest	Statewide
PAE	80	402
Total	6,828	36,206
<b>PAE %</b>	<b>1.2%</b>	<b>1.1%</b>



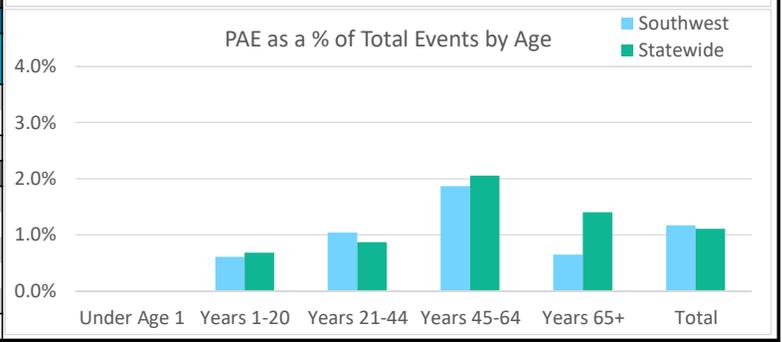
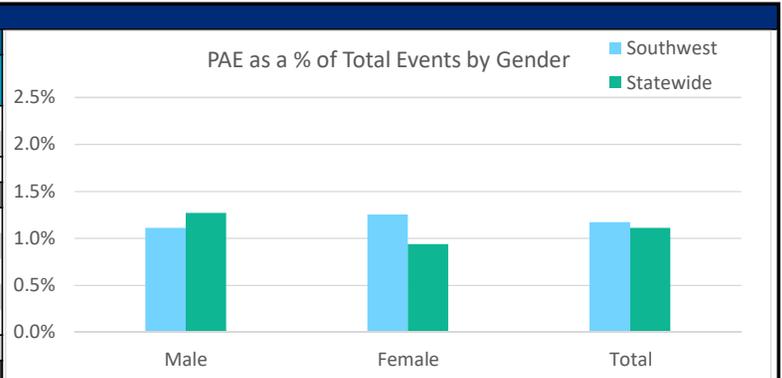
2. Total Dollars		
	Southwest	Statewide
PAE	\$ 1,832,943	\$ 7,671,409
Total	\$ 89,794,542	\$ 430,402,787
<b>PAE %</b>	<b>2.0%</b>	<b>1.8%</b>



3. APR-DRG Case Mix Index		
	Southwest	Statewide
PAE Case Mix	1.883	1.840
Total Case Mix	1.660	1.414



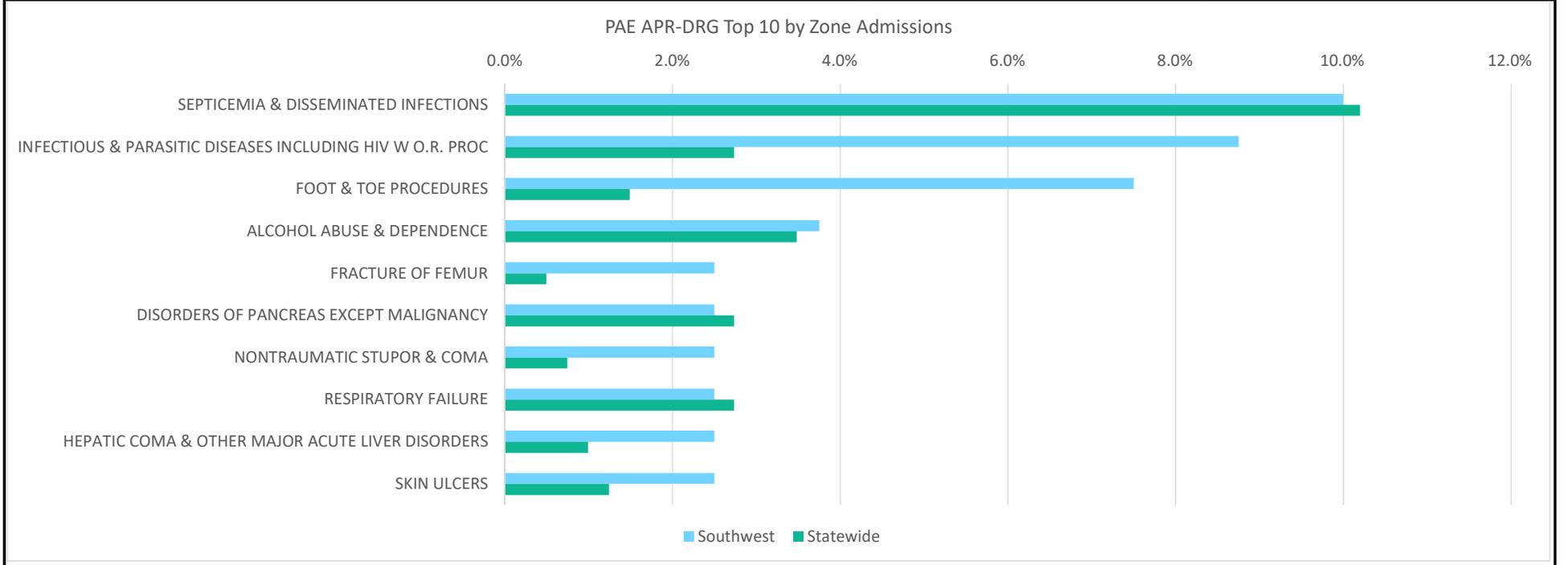
4. Events and Dollars by Age Band and Gender							
Southwest		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	3,958	44	1.1%	\$ 58,819,029	\$ 1,351,381	2.3%
All Ages	F	2,870	36	1.3%	\$ 30,975,514	\$ 481,562	1.6%
<b>Total</b>		<b>6,828</b>	<b>80</b>	<b>1.2%</b>	<b>\$ 89,794,542</b>	<b>\$ 1,832,943</b>	<b>2.0%</b>
Under Age 1		1,061	-	0.0%	\$ 10,763,648	\$ -	0.0%
Years 1-20		329	2	0.6%	\$ 2,701,081	\$ 12,594	0.5%
Years 21-44		2,400	25	1.0%	\$ 29,062,203	\$ 1,109,196	3.8%
Years 45-64		2,729	51	1.9%	\$ 42,763,675	\$ 681,216	1.6%
Years 65+		309	2	0.6%	\$ 4,503,936	\$ 29,937	0.7%
<b>Total</b>		<b>6,828</b>	<b>80</b>	<b>1.2%</b>	<b>\$ 89,794,542</b>	<b>\$ 1,832,943</b>	<b>2.0%</b>
Statewide		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	18,724	238	1.3%	\$ 267,094,886	\$ 4,696,798	1.8%
All Ages	F	17,482	164	0.9%	\$ 163,307,901	\$ 2,974,611	1.8%
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>	<b>1.8%</b>
Under Age 1		7,401	-	0.0%	\$ 58,239,184	\$ -	0.0%
Years 1-20		1,614	11	0.7%	\$ 14,588,336	\$ 78,338	0.5%
Years 21-44		13,020	113	0.9%	\$ 135,495,843	\$ 2,101,206	1.6%
Years 45-64		12,177	250	2.1%	\$ 190,820,620	\$ 4,878,146	2.6%
Years 65+		1,994	28	1.4%	\$ 31,258,803	\$ 613,719	2.0%
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>	<b>1.8%</b>



## Appendix C

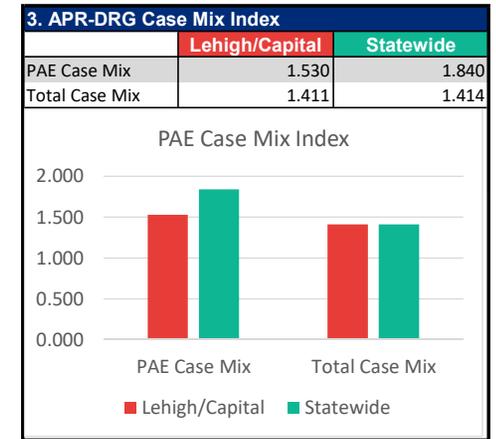
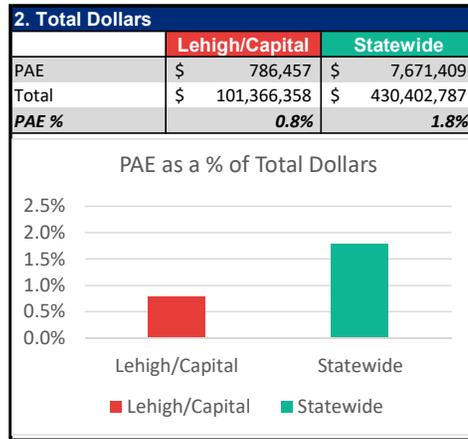
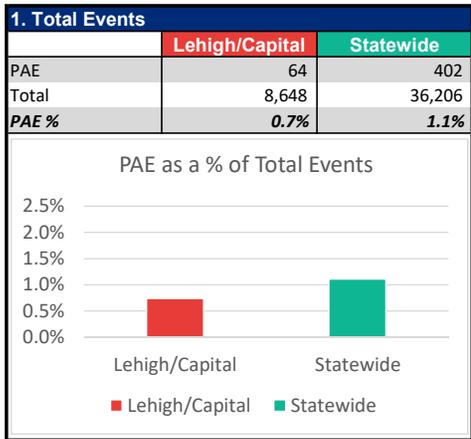
<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Fee-For-Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Southwest

Top 10 PAE by Zone			Southwest			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	8	\$ 144,397	10.0%	41	\$ 1,280,378	10.2%
2	0710	INFECTIOUS & PARASITIC DISEASES INCLUDING HIV W O.R. PROC	7	\$ 160,220	8.8%	11	\$ 223,973	2.7%
3	0314	FOOT & TOE PROCEDURES	6	\$ 72,025	7.5%	6	\$ 72,025	1.5%
4	0775	ALCOHOL ABUSE & DEPENDENCE	3	\$ 13,482	3.8%	14	\$ 53,955	3.5%
5	0340	FRACTURE OF FEMUR	2	\$ 51,733	2.5%	2	\$ 51,733	0.5%
6	0282	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	2	\$ 31,603	2.5%	11	\$ 92,618	2.7%
7	0052	NONTRAUMATIC STUPOR & COMA	2	\$ 27,893	2.5%	3	\$ 36,613	0.7%
8	0133	RESPIRATORY FAILURE	2	\$ 27,843	2.5%	11	\$ 119,712	2.7%
9	0279	HEPATIC COMA & OTHER MAJOR ACUTE LIVER DISORDERS	2	\$ 27,245	2.5%	4	\$ 39,243	1.0%
10	0380	SKIN ULCERS	2	\$ 26,547	2.5%	5	\$ 99,829	1.2%
		All Else	44	\$ 1,249,955	55.0%	294	\$ 5,601,331	73.1%
		<b>Total</b>	<b>80</b>	<b>\$ 1,832,943</b>	<b>100.0%</b>	<b>402</b>	<b>\$ 7,671,409</b>	<b>100.0%</b>

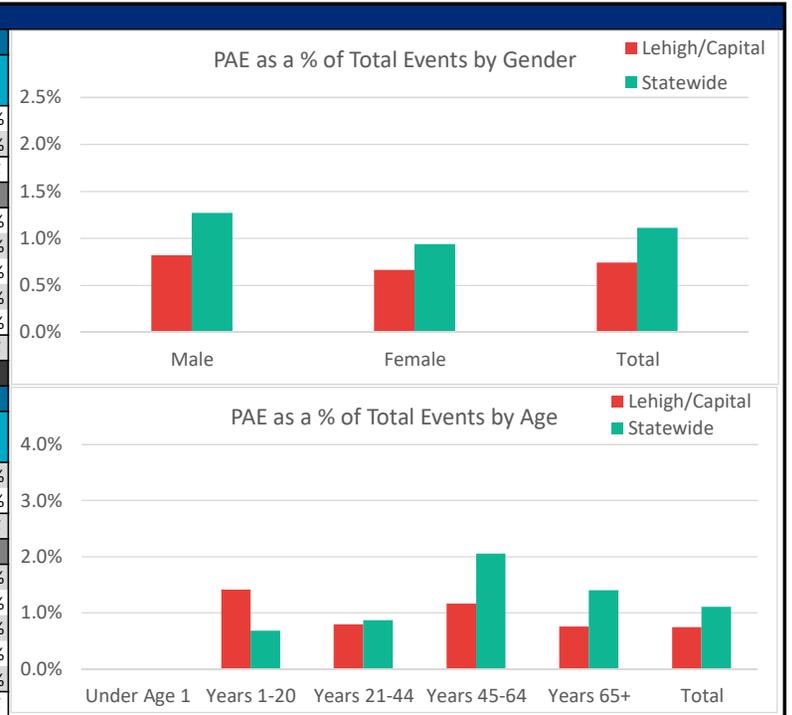


Appendix C

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Fee-For-Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Lehigh/Capital



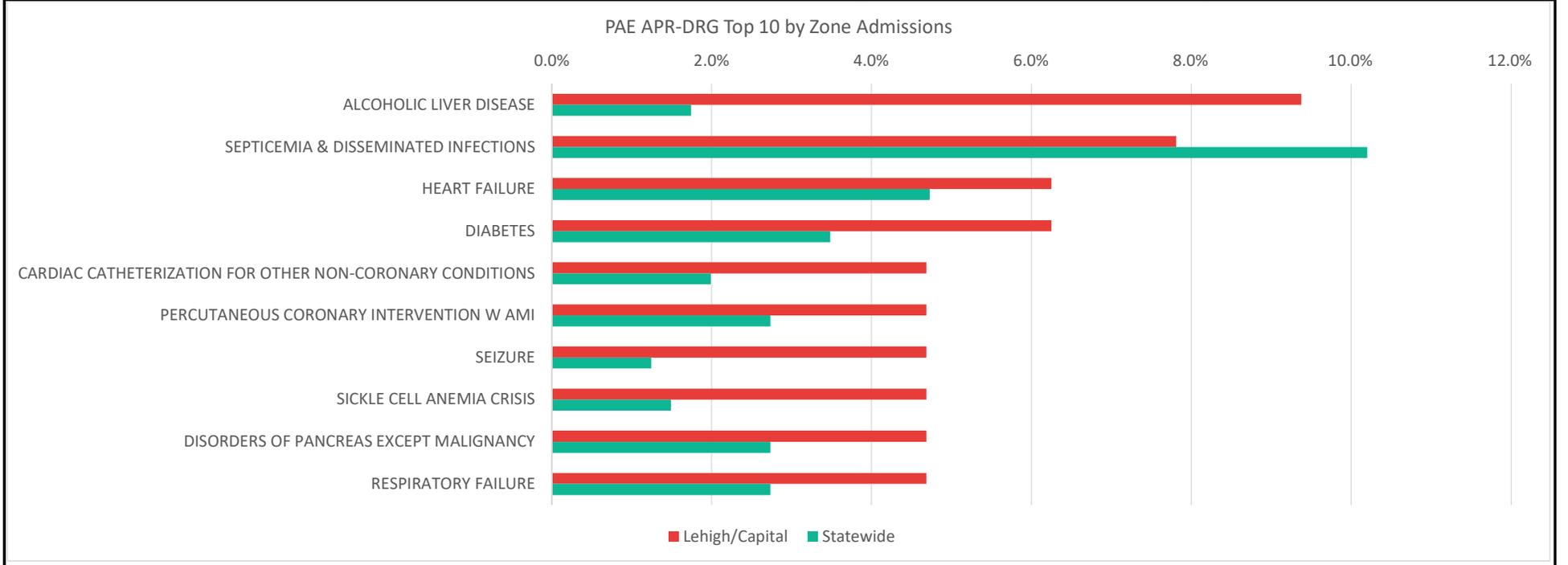
4. Events and Dollars by Age Band and Gender						
Lehigh/Capital		Events			Dollars	
Age Band	Gender	Total	PAE	% of Total	Total	PAE
All Ages	M	4,279	35	0.8%	\$ 63,418,886	\$ 394,344
All Ages	F	4,369	29	0.7%	\$ 37,947,471	\$ 392,114
<b>Total</b>		<b>8,648</b>	<b>64</b>	<b>0.7%</b>	<b>\$ 101,366,358</b>	<b>\$ 786,457</b>
Under Age 1		2,109	-	0.0%	\$ 15,203,116	\$ -
Years 1-20		494	7	1.4%	\$ 3,494,393	\$ 57,969
Years 21-44		3,155	25	0.8%	\$ 33,950,541	\$ 312,081
Years 45-64		2,494	29	1.2%	\$ 42,835,529	\$ 383,615
Years 65+		396	3	0.8%	\$ 5,882,779	\$ 32,793
<b>Total</b>		<b>8,648</b>	<b>64</b>	<b>0.7%</b>	<b>\$ 101,366,358</b>	<b>\$ 786,457</b>
Statewide		Events			Dollars	
Age Band	Gender	Total	PAE	% of Total	Total	PAE
All Ages	M	18,724	238	1.3%	\$ 267,094,886	\$ 4,696,798
All Ages	F	17,482	164	0.9%	\$ 163,307,901	\$ 2,974,611
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>
Under Age 1		7,401	-	0.0%	\$ 58,239,184	\$ -
Years 1-20		1,614	11	0.7%	\$ 14,588,336	\$ 78,338
Years 21-44		13,020	113	0.9%	\$ 135,495,843	\$ 2,101,206
Years 45-64		12,177	250	2.1%	\$ 190,820,620	\$ 4,878,146
Years 65+		1,994	28	1.4%	\$ 31,258,803	\$ 613,719
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>



### Appendix C

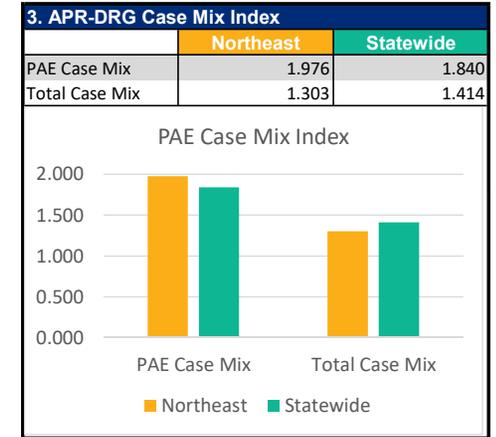
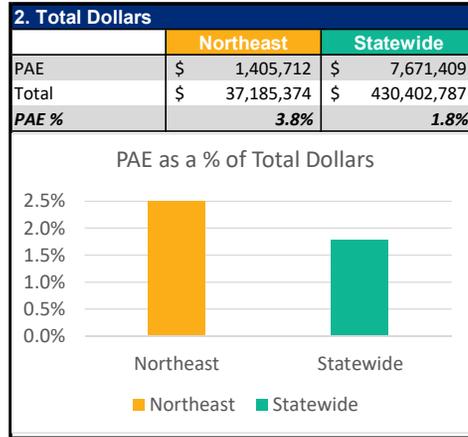
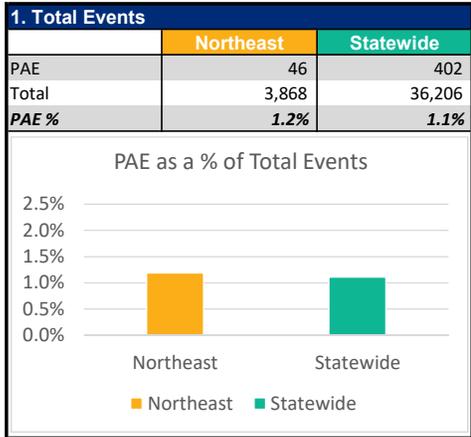
<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Fee-For-Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Lehigh/Capital

Top 10 PAE by Zone			Lehigh/Capital			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0280	ALCOHOLIC LIVER DISEASE	6	\$ 52,227	9.4%	7	\$ 58,190	1.7%
2	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	5	\$ 102,106	7.8%	41	\$ 1,280,378	10.2%
3	0194	HEART FAILURE	4	\$ 45,428	6.3%	19	\$ 242,449	4.7%
4	0420	DIABETES	4	\$ 25,894	6.3%	14	\$ 121,306	3.5%
5	0192	CARDIAC CATHETERIZATION FOR OTHER NON-CORONARY CONDITIONS	3	\$ 75,009	4.7%	8	\$ 173,661	2.0%
6	0174	PERCUTANEOUS CORONARY INTERVENTION W AMI	3	\$ 49,072	4.7%	11	\$ 405,055	2.7%
7	0053	SEIZURE	3	\$ 37,407	4.7%	5	\$ 53,830	1.2%
8	0662	SICKLE CELL ANEMIA CRISIS	3	\$ 27,541	4.7%	6	\$ 43,321	1.5%
9	0282	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	3	\$ 19,998	4.7%	11	\$ 92,618	2.7%
10	0133	RESPIRATORY FAILURE	3	\$ 14,567	4.7%	11	\$ 119,712	2.7%
		All Else	27	\$ 337,209	42.2%	269	\$ 5,080,890	66.9%
		<b>Total</b>	<b>64</b>	<b>\$ 786,457</b>	<b>100.0%</b>	<b>402</b>	<b>\$ 7,671,409</b>	<b>100.0%</b>

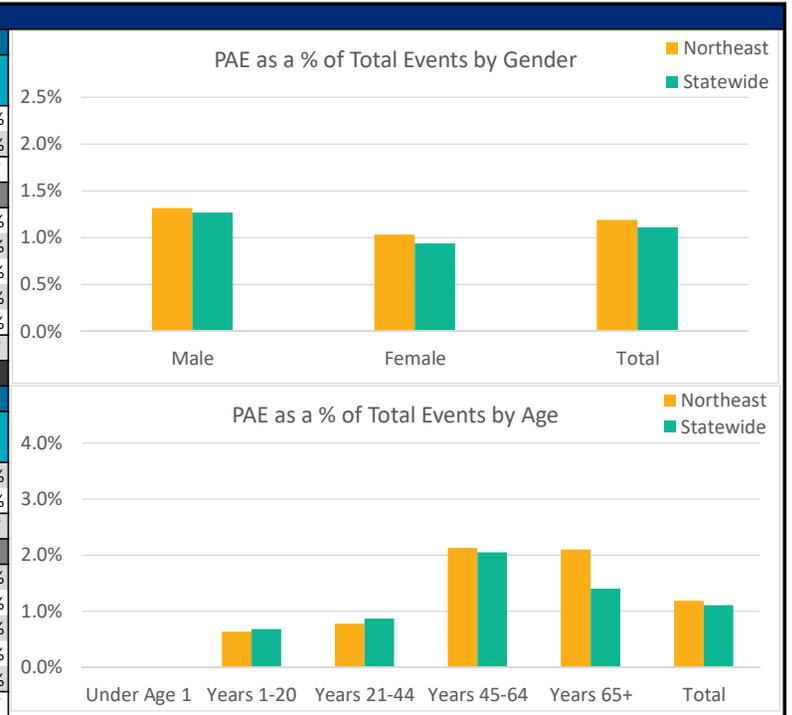


Appendix C

**PAE Analysis:** Potentially Avoidable Readmissions  
**Program Type:** Fee-For-Service  
**Service Dates:** January 1, 2017 - December 31, 2017  
**Zone:** Northeast



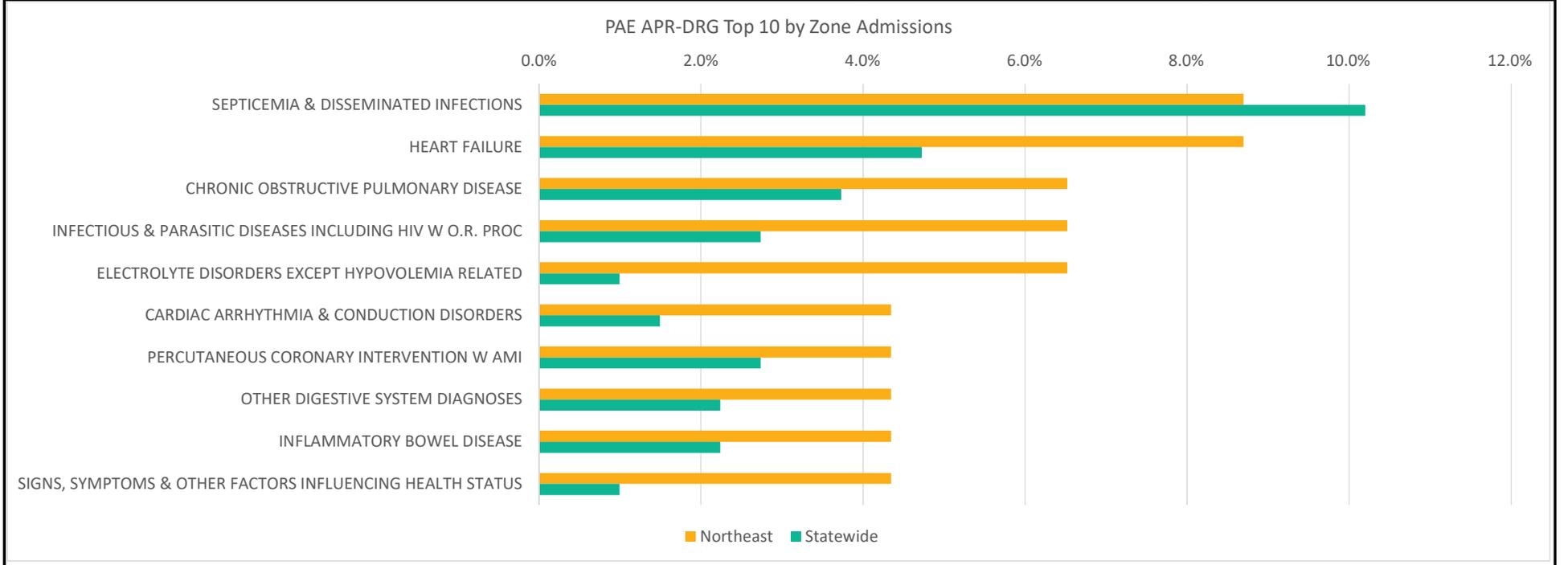
4. Events and Dollars by Age Band and Gender						
Northeast		Events			Dollars	
Age Band	Gender	Total	PAE	% of Total	Total	PAE
All Ages	M	2,129	28	1.3%	\$ 24,055,972	\$ 1,121,029
All Ages	F	1,739	18	1.0%	\$ 13,129,402	\$ 284,683
<b>Total</b>		<b>3,868</b>	<b>46</b>	<b>1.2%</b>	<b>\$ 37,185,374</b>	<b>\$ 1,405,712</b>
Under Age 1		792	-	0.0%	\$ 2,546,651	\$ -
Years 1-20		156	1	0.6%	\$ 1,423,714	\$ 3,767
Years 21-44		1,277	10	0.8%	\$ 11,315,433	\$ 90,087
Years 45-64		1,453	31	2.1%	\$ 18,752,155	\$ 1,181,397
Years 65+		190	4	2.1%	\$ 3,147,421	\$ 130,462
<b>Total</b>		<b>3,868</b>	<b>46</b>	<b>1.2%</b>	<b>\$ 37,185,374</b>	<b>\$ 1,405,712</b>
Statewide		Events			Dollars	
Age Band	Gender	Total	PAE	% of Total	Total	PAE
All Ages	M	18,724	238	1.3%	\$ 267,094,886	\$ 4,696,798
All Ages	F	17,482	164	0.9%	\$ 163,307,901	\$ 2,974,611
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>
Under Age 1		7,401	-	0.0%	\$ 58,239,184	\$ -
Years 1-20		1,614	11	0.7%	\$ 14,588,336	\$ 78,338
Years 21-44		13,020	113	0.9%	\$ 135,495,843	\$ 2,101,206
Years 45-64		12,177	250	2.1%	\$ 190,820,620	\$ 4,878,146
Years 65+		1,994	28	1.4%	\$ 31,258,803	\$ 613,719
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>



### Appendix C

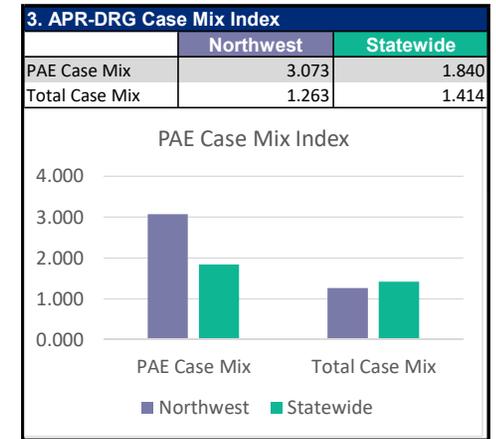
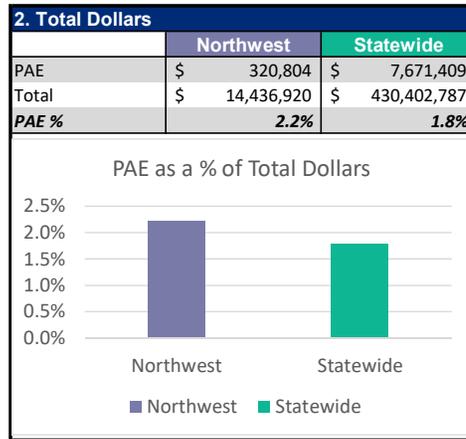
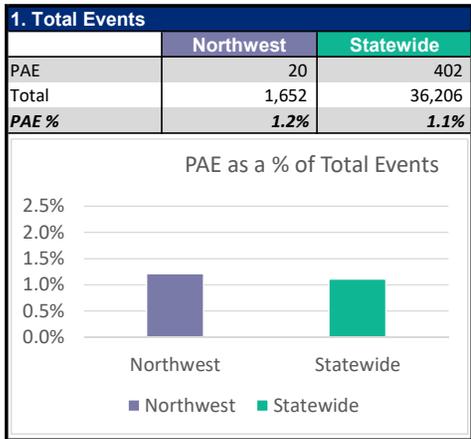
<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Fee-For-Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Northeast

Top 10 PAE by Zone			Northeast			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	4	\$ 54,127	8.7%	41	\$ 1,280,378	10.2%
2	0194	HEART FAILURE	4	\$ 42,721	8.7%	19	\$ 242,449	4.7%
3	0140	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	3	\$ 130,819	6.5%	15	\$ 235,497	3.7%
4	0710	INFECTIOUS & PARASITIC DISEASES INCLUDING HIV W O.R. PROC	3	\$ 38,174	6.5%	11	\$ 223,973	2.7%
5	0425	ELECTROLYTE DISORDERS EXCEPT HYPOVOLEMIA RELATED	3	\$ 17,902	6.5%	4	\$ 28,240	1.0%
6	0201	CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS	2	\$ 607,887	4.3%	6	\$ 644,342	1.5%
7	0174	PERCUTANEOUS CORONARY INTERVENTION W AMI	2	\$ 270,616	4.3%	11	\$ 405,055	2.7%
8	0254	OTHER DIGESTIVE SYSTEM DIAGNOSES	2	\$ 16,878	4.3%	9	\$ 88,436	2.2%
9	0245	INFLAMMATORY BOWEL DISEASE	2	\$ 15,602	4.3%	9	\$ 72,570	2.2%
10	0861	SIGNS, SYMPTOMS & OTHER FACTORS INFLUENCING HEALTH STATUS	2	\$ 14,927	4.3%	4	\$ 108,324	1.0%
		All Else	19	\$ 196,061	41.3%	273	\$ 4,342,145	67.9%
		<b>Total</b>	<b>46</b>	<b>\$ 1,405,712</b>	<b>100.0%</b>	<b>402</b>	<b>\$ 7,671,409</b>	<b>100.0%</b>

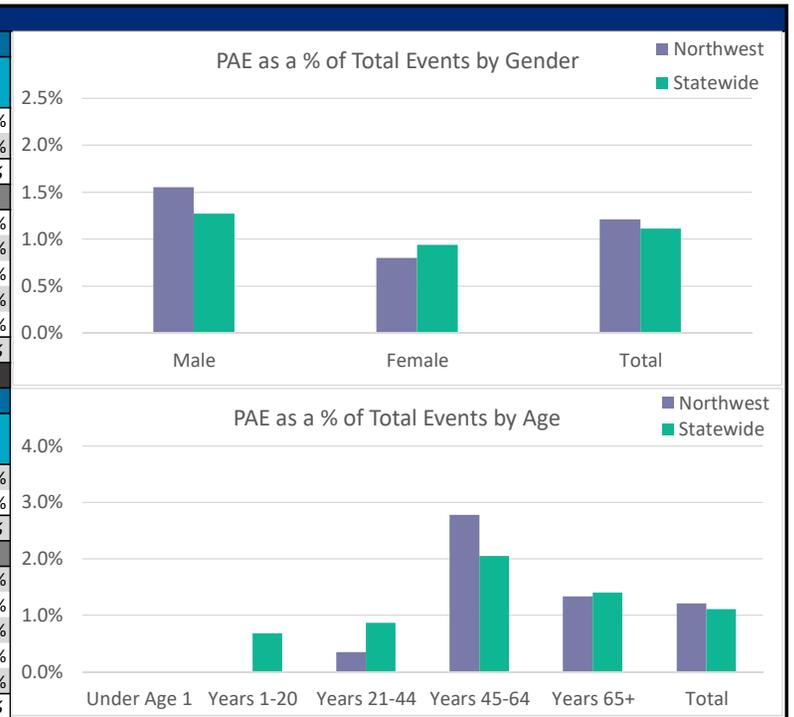


Appendix C

**PAE Analysis:** Potentially Avoidable Readmissions  
**Program Type:** Fee-For-Service  
**Service Dates:** January 1, 2017 - December 31, 2017  
**Zone:** Northwest



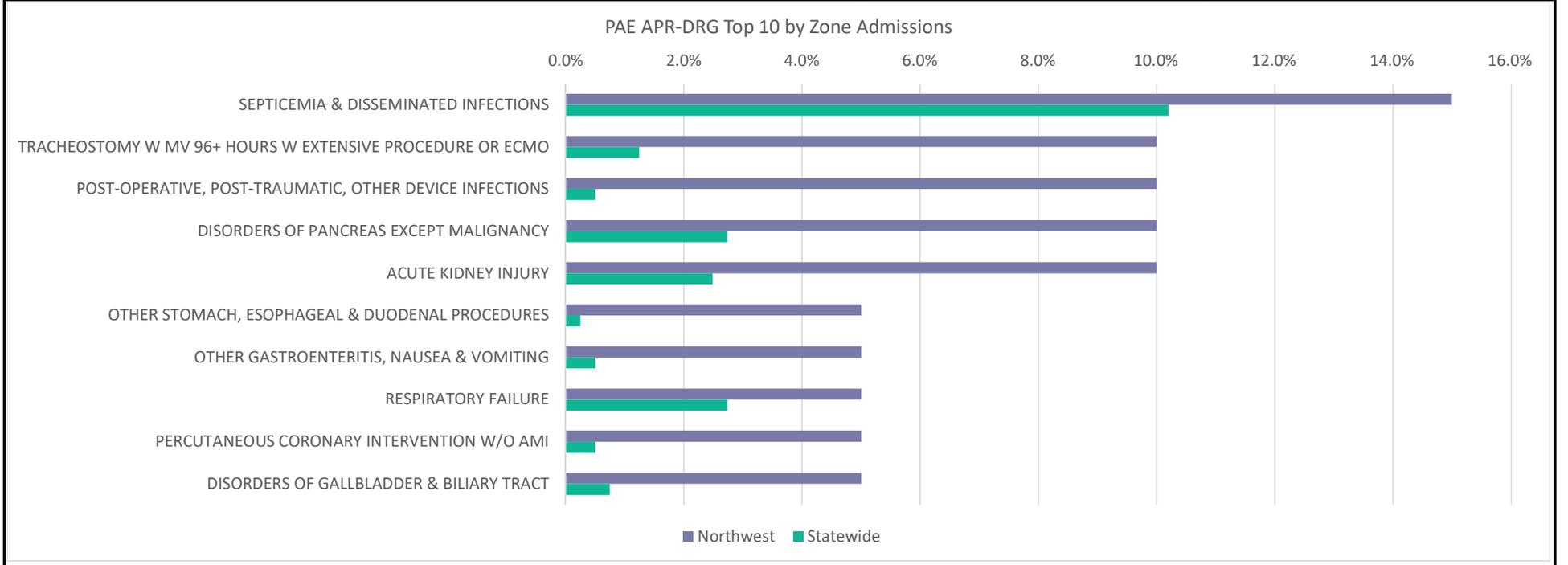
4. Events and Dollars by Age Band and Gender							
Northwest		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	901	14	1.6%	\$ 9,295,515	\$ 173,810	1.9%
All Ages	F	751	6	0.8%	\$ 5,141,405	\$ 146,993	2.9%
<b>Total</b>		<b>1,652</b>	<b>20</b>	<b>1.2%</b>	<b>\$ 14,436,920</b>	<b>\$ 320,804</b>	<b>2.2%</b>
Under Age 1		332	-	0.0%	\$ 1,535,655	\$ -	0.0%
Years 1-20		61	-	0.0%	\$ 225,979	\$ -	0.0%
Years 21-44		572	2	0.3%	\$ 3,720,888	\$ 11,658	0.3%
Years 45-64		612	17	2.8%	\$ 7,787,636	\$ 234,692	3.0%
Years 65+		75	1	1.3%	\$ 1,166,762	\$ 74,454	6.4%
<b>Total</b>		<b>1,652</b>	<b>20</b>	<b>1.2%</b>	<b>\$ 14,436,920</b>	<b>\$ 320,804</b>	<b>2.2%</b>
Statewide		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	18,724	238	1.3%	\$ 267,094,886	\$ 4,696,798	1.8%
All Ages	F	17,482	164	0.9%	\$ 163,307,901	\$ 2,974,611	1.8%
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>	<b>1.8%</b>
Under Age 1		7,401	-	0.0%	\$ 58,239,184	\$ -	0.0%
Years 1-20		1,614	11	0.7%	\$ 14,588,336	\$ 78,338	0.5%
Years 21-44		13,020	113	0.9%	\$ 135,495,843	\$ 2,101,206	1.6%
Years 45-64		12,177	250	2.1%	\$ 190,820,620	\$ 4,878,146	2.6%
Years 65+		1,994	28	1.4%	\$ 31,258,803	\$ 613,719	2.0%
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>	<b>1.8%</b>



Appendix C

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Fee-For-Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Northwest

Top 10 PAE by Zone			Northwest			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	3	\$ 28,102	15.0%	41	\$ 1,280,378	10.2%
2	0004	TRACHEOSTOMY W MV 96+ HOURS W EXTENSIVE PROCEDURE OR ECMO	2	\$ 63,044	10.0%	5	\$ 120,807	1.2%
3	0721	POST-OPERATIVE, POST-TRAUMATIC, OTHER DEVICE INFECTIONS	2	\$ 35,790	10.0%	2	\$ 35,790	0.5%
4	0282	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	2	\$ 15,364	10.0%	11	\$ 92,618	2.7%
5	0469	ACUTE KIDNEY INJURY	2	\$ 12,569	10.0%	10	\$ 73,694	2.5%
6	0222	OTHER STOMACH, ESOPHAGEAL & DUODENAL PROCEDURES	1	\$ 74,454	5.0%	1	\$ 74,454	0.2%
7	0249	OTHER GASTROENTERITIS, NAUSEA & VOMITING	1	\$ 16,867	5.0%	2	\$ 23,899	0.5%
8	0133	RESPIRATORY FAILURE	1	\$ 13,792	5.0%	11	\$ 119,712	2.7%
9	0175	PERCUTANEOUS CORONARY INTERVENTION W/O AMI	1	\$ 13,498	5.0%	2	\$ 31,455	0.5%
10	0284	DISORDERS OF GALLBLADDER & BILIARY TRACT	1	\$ 12,845	5.0%	3	\$ 27,421	0.7%
		All Else	4	\$ 34,478	20.0%	314	\$ 5,791,182	78.1%
		<b>Total</b>	<b>20</b>	<b>\$ 320,804</b>	<b>100.0%</b>	<b>402</b>	<b>\$ 7,671,409</b>	<b>100.0%</b>



# 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.

#### Detailed Description of Tables

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

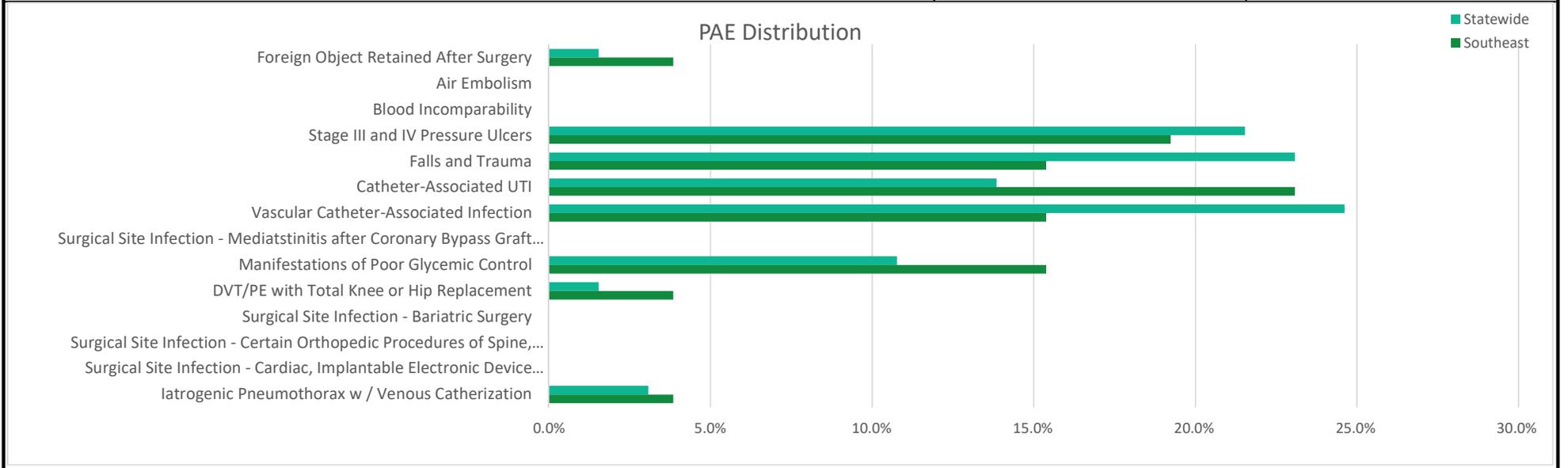
#### Additional Notes Regarding Data

1. Admits and Dollars for CY 2017 service dates are based on FFS claims data submitted through September 30, 2018.
2. Inpatient is defined as admits with a claim type of "I".
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 exclude 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

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Fee-For-Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Southeast

1. Events by Potentially Avoidable Complications		Southeast		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	1	3.8%	1	1.5%
2	Air Embolism	-	0.0%	-	0.0%
3	Blood Incomparability	-	0.0%	-	0.0%
4	Stage III and IV Pressure Ulcers	5	19.2%	14	21.5%
5	Falls and Trauma	4	15.4%	15	23.1%
6	Catheter-Associated UTI	6	23.1%	9	13.8%
7	Vascular Catheter-Associated Infection	4	15.4%	16	24.6%
8	Surgical Site Infection - Mediatstinitis after Coronary Bypass Graft (CABG)	-	0.0%	-	0.0%
9	Manifestations of Poor Glycemic Control	4	15.4%	7	10.8%
10	DVT/PE with Total Knee or Hip Replacement	1	3.8%	1	1.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	-	0.0%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	-	0.0%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	-	0.0%
14	Iatrogenic Pneumothorax w / Venous Catherization	1	3.8%	2	3.1%
<b>Total</b>		<b>26</b>	<b>100.0%</b>	<b>65</b>	<b>100.0%</b>



## Appendix D

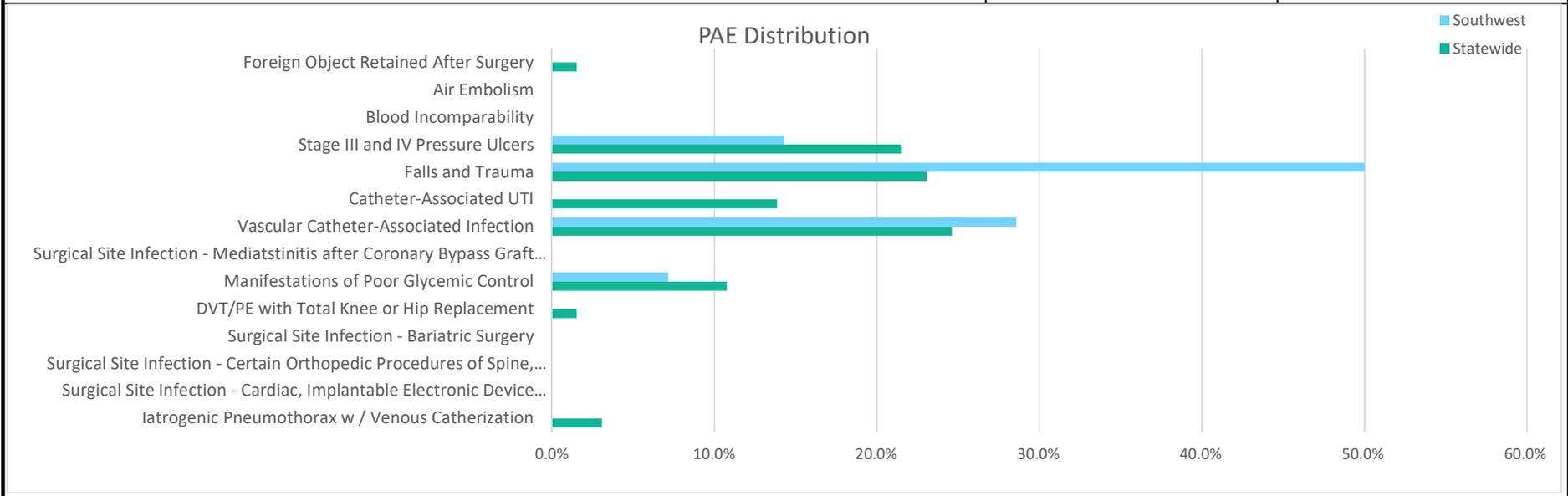
**PAE Analysis:** Potentially Avoidable Complications

**Program Type:** Fee-For-Service

**Service Dates:** January 1, 2017 - December 31, 2017

**Zone:** Southwest

1. Events by Potentially Avoidable Complications		Southwest		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	-	0.0%	1	1.5%
2	Air Embolism	-	0.0%	-	0.0%
3	Blood Incomparability	-	0.0%	-	0.0%
4	Stage III and IV Pressure Ulcers	2	14.3%	14	21.5%
5	Falls and Trauma	7	50.0%	15	23.1%
6	Catheter-Associated UTI	-	0.0%	9	13.8%
7	Vascular Catheter-Associated Infection	4	28.6%	16	24.6%
8	Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG)	-	0.0%	-	0.0%
9	Manifestations of Poor Glycemic Control	1	7.1%	7	10.8%
10	DVT/PE with Total Knee or Hip Replacement	-	0.0%	1	1.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	-	0.0%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	-	0.0%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	-	0.0%
14	Iatrogenic Pneumothorax w / Venous Catherization	-	0.0%	2	3.1%
<b>Total</b>		<b>14</b>	<b>100.0%</b>	<b>65</b>	<b>100.0%</b>



## Appendix D

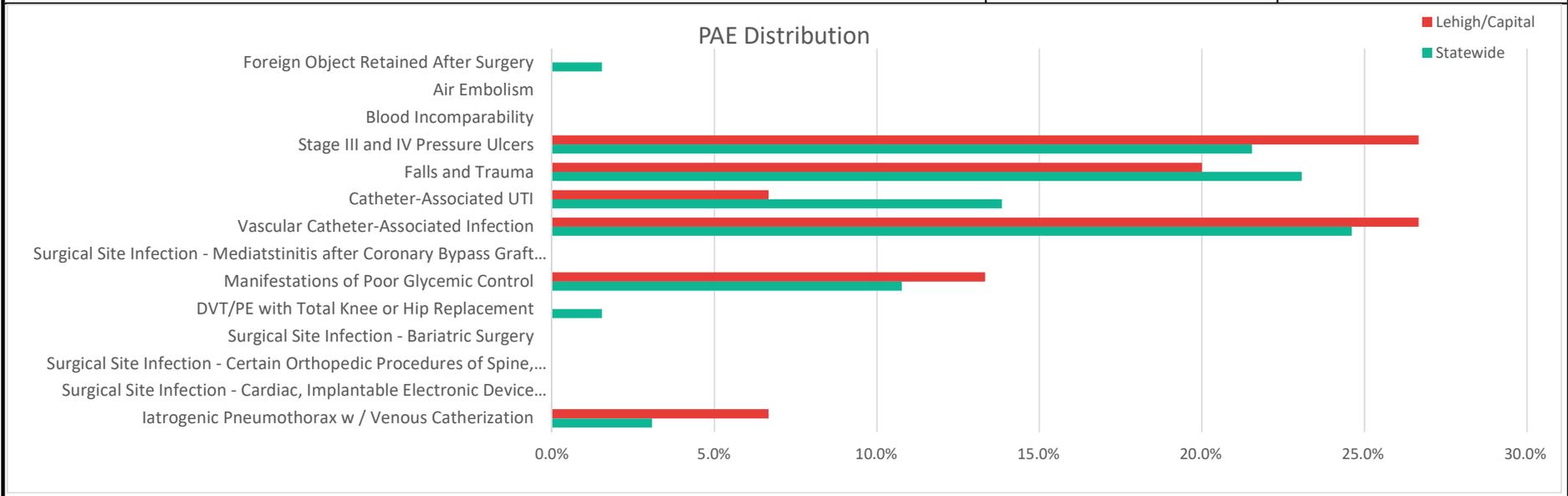
**PAE Analysis:** Potentially Avoidable Complications

**Program Type:** Fee-For-Service

**Service Dates:** January 1, 2017 - December 31, 2017

**Zone:** Lehigh/Capital

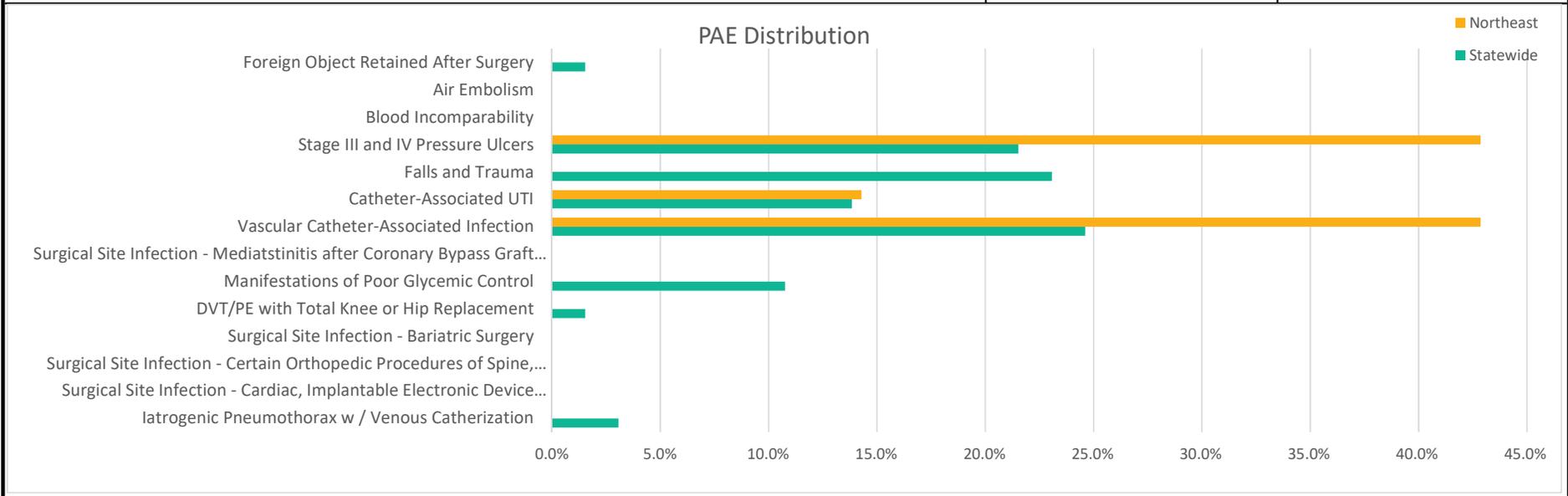
1. Events by Potentially Avoidable Complications		Lehigh/Capital		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	-	0.0%	1	1.5%
2	Air Embolism	-	0.0%	-	0.0%
3	Blood Incomparability	-	0.0%	-	0.0%
4	Stage III and IV Pressure Ulcers	4	26.7%	14	21.5%
5	Falls and Trauma	3	20.0%	15	23.1%
6	Catheter-Associated UTI	1	6.7%	9	13.8%
7	Vascular Catheter-Associated Infection	4	26.7%	16	24.6%
8	Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG)	-	0.0%	-	0.0%
9	Manifestations of Poor Glycemic Control	2	13.3%	7	10.8%
10	DVT/PE with Total Knee or Hip Replacement	-	0.0%	1	1.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	-	0.0%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	-	0.0%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	-	0.0%
14	Iatrogenic Pneumothorax w / Venous Catherization	1	6.7%	2	3.1%
<b>Total</b>		<b>15</b>	<b>100.0%</b>	<b>65</b>	<b>100.0%</b>



## Appendix D

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Fee-For-Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Northeast

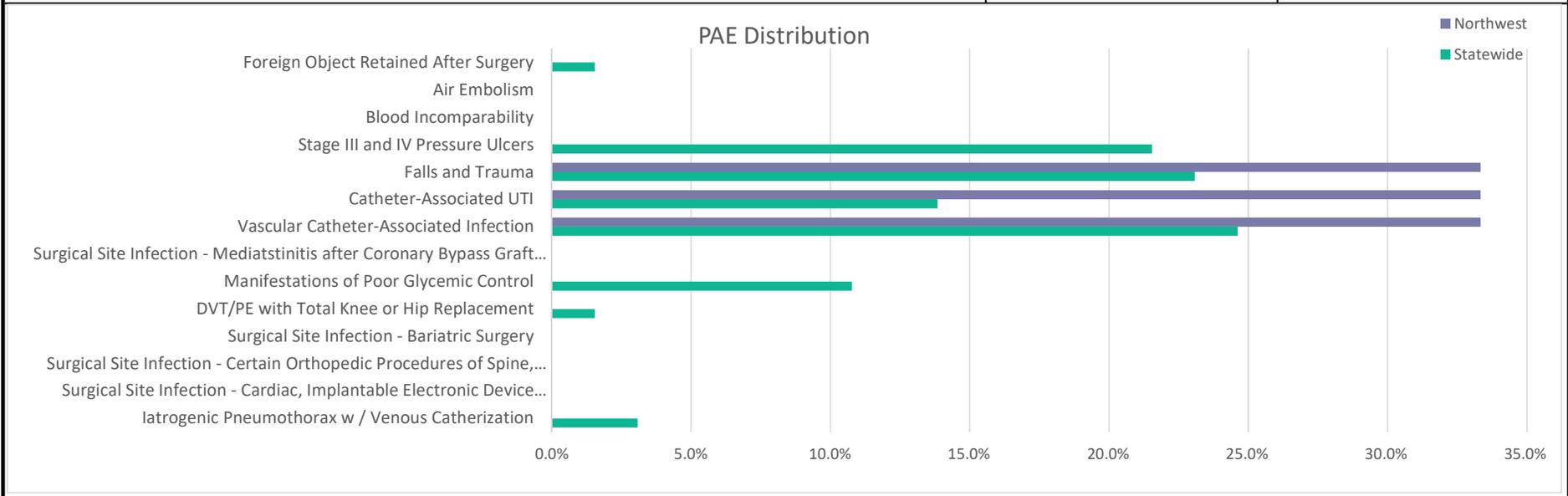
1. Events by Potentially Avoidable Complications		Northeast		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	-	0.0%	1	1.5%
2	Air Embolism	-	0.0%	-	0.0%
3	Blood Incomparability	-	0.0%	-	0.0%
4	Stage III and IV Pressure Ulcers	3	42.9%	14	21.5%
5	Falls and Trauma	-	0.0%	15	23.1%
6	Catheter-Associated UTI	1	14.3%	9	13.8%
7	Vascular Catheter-Associated Infection	3	42.9%	16	24.6%
8	Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG)	-	0.0%	-	0.0%
9	Manifestations of Poor Glycemic Control	-	0.0%	7	10.8%
10	DVT/PE with Total Knee or Hip Replacement	-	0.0%	1	1.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	-	0.0%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	-	0.0%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	-	0.0%
14	Iatrogenic Pneumothorax w / Venous Catherization	-	0.0%	2	3.1%
<b>Total</b>		<b>7</b>	<b>100.0%</b>	<b>65</b>	<b>100.0%</b>



## Appendix D

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Fee-For-Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Zone:</b>	Northwest

1. Events by Potentially Avoidable Complications		Northwest		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	-	0.0%	1	1.5%
2	Air Embolism	-	0.0%	-	0.0%
3	Blood Incomparability	-	0.0%	-	0.0%
4	Stage III and IV Pressure Ulcers	-	0.0%	14	21.5%
5	Falls and Trauma	1	33.3%	15	23.1%
6	Catheter-Associated UTI	1	33.3%	9	13.8%
7	Vascular Catheter-Associated Infection	1	33.3%	16	24.6%
8	Surgical Site Infection - Mediastinitis after Coronary Bypass Graft (CABG)	-	0.0%	-	0.0%
9	Manifestations of Poor Glycemic Control	-	0.0%	7	10.8%
10	DVT/PE with Total Knee or Hip Replacement	-	0.0%	1	1.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	-	0.0%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	-	0.0%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	-	0.0%
14	Iatrogenic Pneumothorax w / Venous Catherization	-	0.0%	2	3.1%
<b>Total</b>		<b>3</b>	<b>100.0%</b>	<b>65</b>	<b>100.0%</b>



# APPENDIX E

## GLOSSARY

<b>APR-DRGs</b>	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.
<b>Beneficiary</b>	A person eligible to receive services in the MA Program of the Commonwealth of Pennsylvania.
<b>CHC</b>	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.
<b>CMS</b>	Centers for Medicare & Medicaid Services. The federal agency within the Department of Health and Human Services responsible for oversight of Medicaid Programs.
<b>Department</b>	The Department of Human Services of the Commonwealth of Pennsylvania.
<b>Diagnostic Related Groups</b>	A classification system that uses patient discharge information to classify patients into clinically meaningful groups.
<b>FFS</b>	Fee-for-service. The delivery system in which the Department pays providers on a per-service basis for health care services provided to beneficiaries.
<b>Gender</b>	Gender identified within the Department's eligibility system.
<b>HCAC</b>	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.
<b>Hospital</b>	A public or private institution licensed as a hospital under the laws of the Commonwealth that participates in the MA program.
<b>Hospital Outcomes Program</b>	A program designed to provide a hospital with information to reduce PAEs and further increase efficiency in the delivery of MA hospital services.
<b>MA</b>	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.

<b>MCO</b>	Managed care organization. A licensed managed care organization with whom the Department has an agreement with to provide or arrange for services to a Medicaid beneficiary.
<b>Medicaid program</b>	The Commonwealth's MA program authorized under Article IV of the Public Welfare Code (62 P. S. §§ 401–488) and is administered in conformity with Title XIX of the Social Security Act (42 U.S.C.A. §§ 1396–1396q) and regulations issued under it. This program is titled Medical Assistance (MA).
<b>OPPC</b>	<p>Other Provider Preventable Conditions. A condition occurring in any health care setting that meets the following criteria:</p> <ul style="list-style-type: none"> <li>• Is identified in the State plan.</li> <li>• 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.</li> <li>• Has a negative consequence for the beneficiary.</li> <li>• Is auditable.</li> <li>• Includes, at a minimum, the following: <ul style="list-style-type: none"> <li>• Wrong surgical or other invasive procedure performed on a patient.</li> <li>• Surgical or other invasive procedures performed on the wrong body part.</li> <li>• Surgical or other invasive procedure performed on the wrong patient.</li> </ul> </li> </ul>
<b>PAC</b>	<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"> <li>• Occurs after the person's admission to a hospital or long-term care facility.</li> <li>• 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.</li> </ul>
<b>PAE</b>	<p>Potentially Avoidable Event. Any of the following:</p> <ul style="list-style-type: none"> <li>• A potentially avoidable admission.</li> <li>• A potentially avoidable complication.</li> <li>• A potentially avoidable emergency visit.</li> <li>• A potentially avoidable readmission.</li> <li>• A combination of the events listed under this definition.</li> </ul>
<b>PAR</b>	<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"> <li>• The same condition or procedure for which the individual was previously admitted.</li> <li>• An infection or other complication resulting from care previously provided.</li> <li>• A condition or procedure indicating that a surgical intervention performed during a previous admission was unsuccessful in achieving the anticipated outcome.</li> </ul>
<b>PH HealthChoices</b>	The mandatory managed care program that uses MA MCOs to coordinate and pay for physical health care services.
<b>POA</b>	Present on Admission. POA is a condition that is present at the time the order for inpatient admission occurs.
<b>PPC</b>	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).
<b>PROMISe</b>	Provider Reimbursement and Operations Management Information System. The Department's Medicaid Management Information System which is the CMS certified information system.

# APPENDIX F

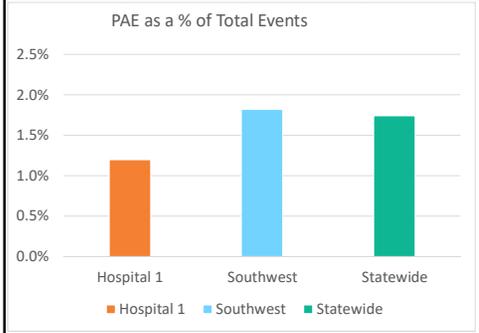
## HOSPITAL REPORT TEMPLATE — MCO BENEFICIARIES

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

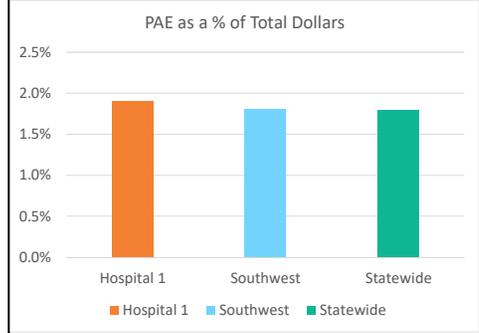
Template for Demonstration Only

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Hospital:</b>	Hospital 1

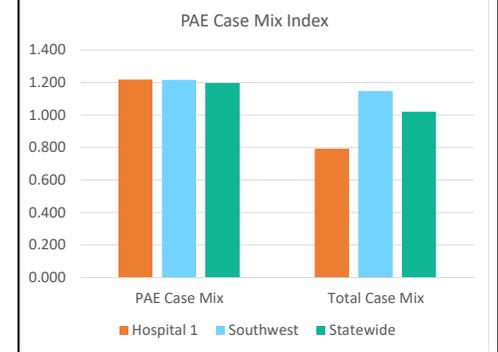
1. Total Events	Hospital 1	Southwest	Statewide
PAE	161	975	4,396
Total	13,466	53,551	252,457
PAE %	1.2%	1.8%	1.7%



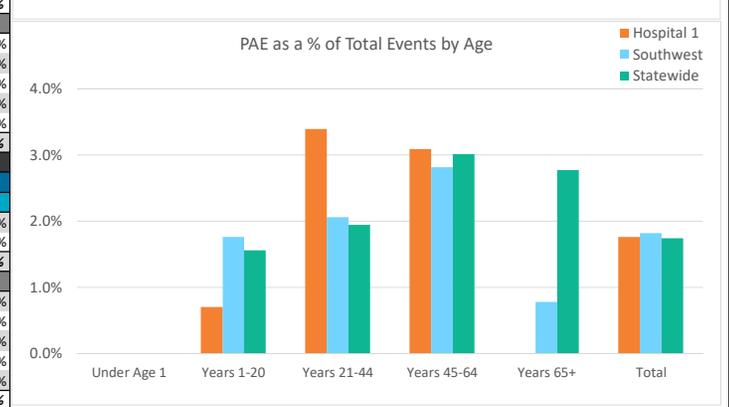
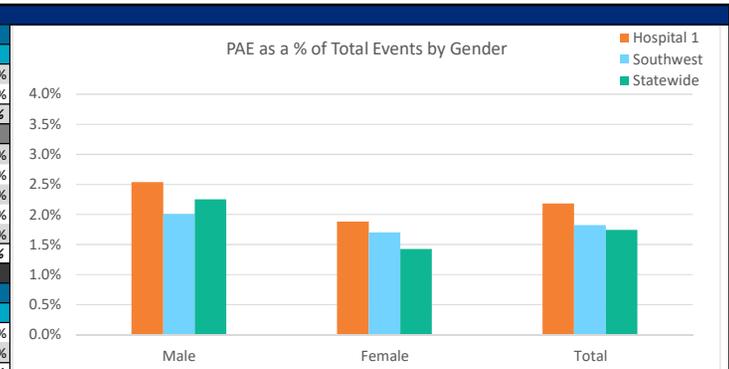
2. Total Dollars	Hospital 1	Southwest	Statewide
PAE	\$ 1,423,711	\$ 9,361,658	\$ 40,913,360
Total	\$ 74,988,295	\$ 518,049,621	\$ 2,287,428,422
PAE %	1.9%	1.8%	1.8%



3. APR-DRG Case Mix Index	Hospital 1	Southwest	Statewide
PAE Case Mix	1.220	1.216	1.197
Total Case Mix	0.793	1.147	1.021



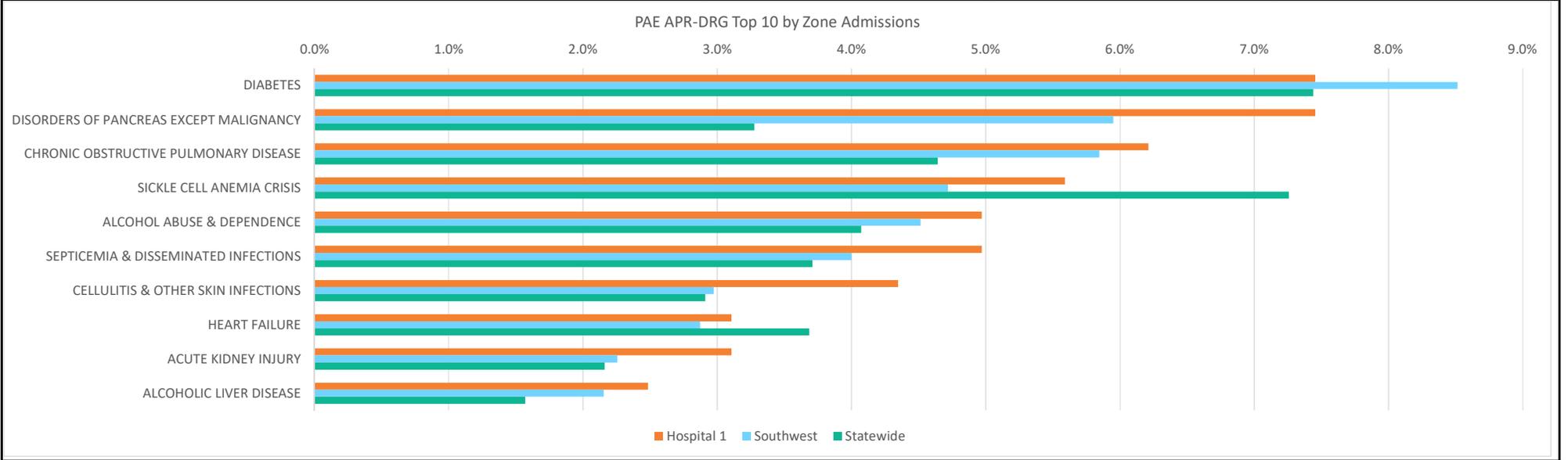
4. Events and Dollars by Age Band and Gender							
Hospital 1		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	7,440	189	2.5%	\$ 87,380,091	\$ 1,648,189	1.9%
All Ages	F	8,811	166	1.9%	\$ 71,309,750	\$ 1,146,697	1.6%
<b>Total</b>		<b>16,251</b>	<b>355</b>	<b>2.2%</b>	<b>\$ 158,689,841</b>	<b>\$ 2,794,886</b>	<b>1.8%</b>
Under Age 1		2,470	-	0.0%	\$ 36,193,528	\$ -	0.0%
Years 1-20		2,994	45	1.5%	\$ 44,954,698	\$ 316,278	0.7%
Years 21-44		5,520	151	2.7%	\$ 32,824,221	\$ 1,114,759	3.4%
Years 45-64		5,180	158	3.1%	\$ 44,105,309	\$ 1,363,849	3.1%
Years 65+		87	1	1.1%	\$ 612,085	\$ -	0.0%
<b>Total</b>		<b>16,251</b>	<b>355</b>	<b>2.2%</b>	<b>\$ 158,689,841</b>	<b>\$ 2,794,886</b>	<b>1.8%</b>
Southwest		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	20,655	415	2.0%	\$ 241,418,458	\$ 4,141,846	1.7%
All Ages	F	32,896	560	1.7%	\$ 276,631,163	\$ 5,219,812	1.9%
<b>Total</b>		<b>53,551</b>	<b>975</b>	<b>1.8%</b>	<b>\$ 518,049,621</b>	<b>\$ 9,361,658</b>	<b>1.8%</b>
Under Age 1		11,096	-	0.0%	\$ 87,936,041	\$ -	0.0%
Years 1-20		6,418	113	1.8%	\$ 78,461,794	\$ 1,368,985	1.7%
Years 21-44		19,965	412	2.1%	\$ 154,456,230	\$ 3,576,254	2.3%
Years 45-64		15,944	449	2.8%	\$ 195,557,484	\$ 4,406,676	2.3%
Years 65+		128	1	0.8%	\$ 1,638,072	\$ 9,743	0.6%
<b>Total</b>		<b>53,551</b>	<b>975</b>	<b>1.8%</b>	<b>\$ 518,049,621</b>	<b>\$ 9,361,658</b>	<b>1.8%</b>
Statewide		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	97,005	2,185	2.3%	\$ 1,072,556,025	\$ 20,314,144	1.9%
All Ages	F	155,452	2,211	1.4%	\$ 1,214,872,397	\$ 20,599,217	1.7%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>
Under Age 1		56,621	-	0.0%	\$ 422,565,208	\$ -	0.0%
Years 1-20		33,279	520	1.6%	\$ 357,373,860	\$ 6,088,653	1.7%
Years 21-44		95,780	1,865	1.9%	\$ 697,131,523	\$ 15,303,996	2.2%
Years 45-64		65,624	1,979	3.0%	\$ 795,335,345	\$ 19,231,009	2.4%
Years 65+		1,153	32	2.8%	\$ 15,022,486	\$ 289,703	1.9%
<b>Total</b>		<b>252,457</b>	<b>4,396</b>	<b>1.7%</b>	<b>\$ 2,287,428,422</b>	<b>\$ 40,913,360</b>	<b>1.8%</b>



Template for Demonstration Only

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Facility:</b>	Hospital 1

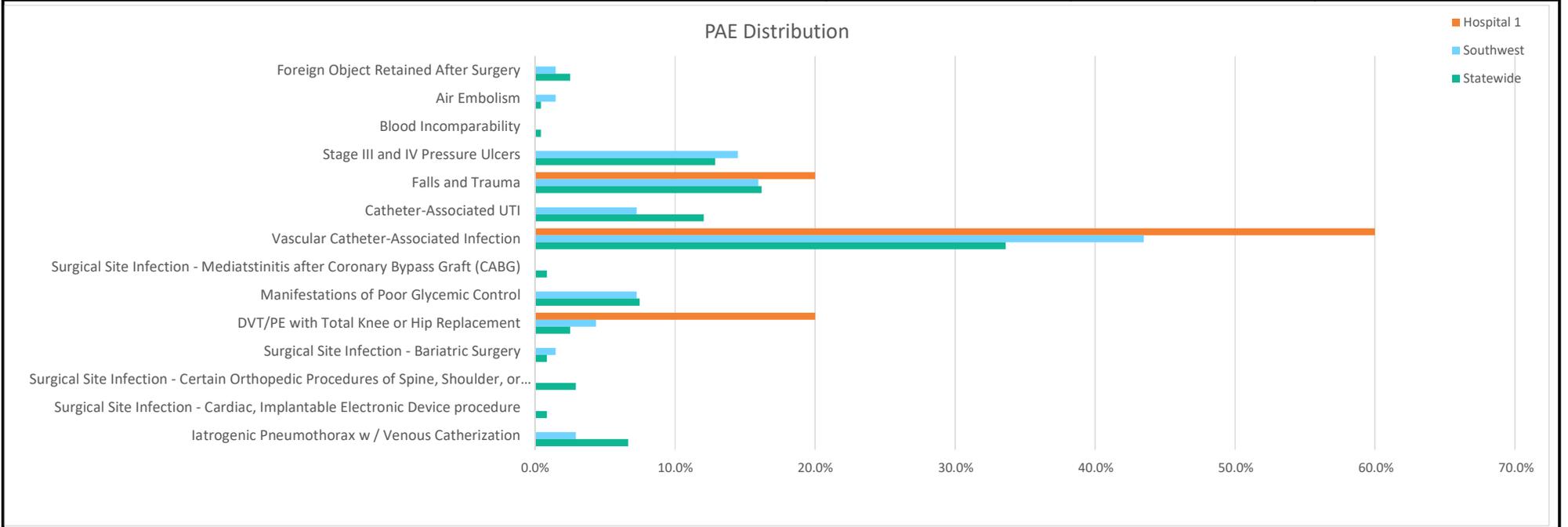
Top 10 PAE by Zone			Hospital 1			Southwest			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0420	DIABETES	12	\$ 83,739	7.5%	83	\$ 494,121	8.5%	327	\$ 1,954,514	7.4%
2	0282	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	12	\$ 54,695	7.5%	58	\$ 391,879	5.9%	144	\$ 1,029,319	3.3%
3	0140	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	10	\$ 78,909	6.2%	57	\$ 524,568	5.8%	204	\$ 1,554,694	4.6%
4	0662	SICKLE CELL ANEMIA CRISIS	9	\$ 76,395	5.6%	46	\$ 277,956	4.7%	319	\$ 2,104,270	7.3%
5	0775	ALCOHOL ABUSE & DEPENDENCE	8	\$ 57,084	5.0%	44	\$ 182,499	4.5%	179	\$ 806,994	4.1%
6	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	8	\$ 17,357	5.0%	39	\$ 578,652	4.0%	163	\$ 2,320,159	3.7%
7	0383	CELLULITIS & OTHER SKIN INFECTIONS	7	\$ 33,622	4.3%	29	\$ 218,975	3.0%	128	\$ 929,670	2.9%
8	0194	HEART FAILURE	5	\$ 48,211	3.1%	28	\$ 328,208	2.9%	162	\$ 1,948,076	3.7%
9	0469	ACUTE KIDNEY INJURY	5	\$ 45,253	3.1%	22	\$ 216,288	2.3%	95	\$ 1,023,679	2.2%
10	0280	ALCOHOLIC LIVER DISEASE	4	\$ 40,100	2.5%	21	\$ 230,817	2.2%	69	\$ 761,028	1.6%
		All Else	81	\$ 888,344	50.3%	548	\$ 5,917,694	56.2%	2,606	\$ 26,480,957	59.3%
		<b>Total</b>	<b>161</b>	<b>\$ 1,423,711</b>	<b>100.0%</b>	<b>975</b>	<b>\$ 9,361,658</b>	<b>100.0%</b>	<b>4,396</b>	<b>\$ 40,913,360</b>	<b>100.0%</b>



# Template for Demonstration Only

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Physical Health HealthChoices
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Facility:</b>	Hospital 1

1. Events by Potentially Avoidable Complication		Hospital 1		Southwest		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	-	0.0%	1	1.4%	6	2.5%
2	Air Embolism	-	0.0%	1	1.4%	1	0.4%
3	Blood Incomparability	-	0.0%	-	0.0%	1	0.4%
4	Stage III and IV Pressure Ulcers	-	0.0%	10	14.5%	31	12.9%
5	Falls and Trauma	1	20.0%	11	15.9%	39	16.2%
6	Catheter-Associated UTI	-	0.0%	5	7.2%	29	12.0%
7	Vascular Catheter-Associated Infection	3	60.0%	30	43.5%	81	33.6%
8	Surgical Site Infection - Mediatstinitis after Coronary Bypass Graft (CABG)	-	0.0%	-	0.0%	2	0.8%
9	Manifestations of Poor Glycemic Control	-	0.0%	5	7.2%	18	7.5%
10	DVT/PE with Total Knee or Hip Replacement	1	20.0%	3	4.3%	6	2.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	1	1.4%	2	0.8%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	-	0.0%	7	2.9%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	-	0.0%	2	0.8%
14	Iatrogenic Pneumothorax w / Venous Catherization	-	0.0%	2	2.9%	16	6.6%
<b>Total</b>		<b>5</b>	<b>100.0%</b>	<b>69</b>	<b>100.0%</b>	<b>241</b>	<b>100.0%</b>



# APPENDIX G

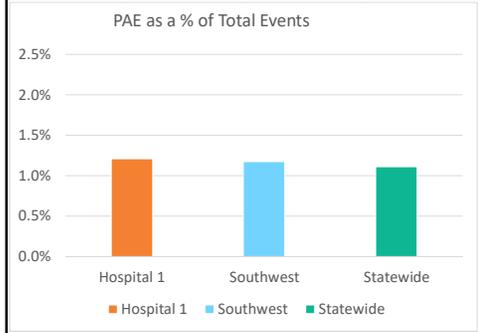
## HOSPITAL REPORT TEMPLATE — FFS BENEFICIARIES

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

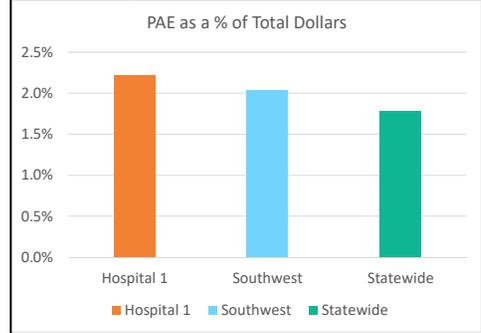
**Appendix G**  
**Template for Demonstration Only**

<b>PAE Analysis:</b> Potentially Avoidable Readmissions
<b>Program Type:</b> Fee For Service
<b>Service Dates:</b> January 1, 2017 - December 31, 2017
<b>Hospital:</b> Hospital 1

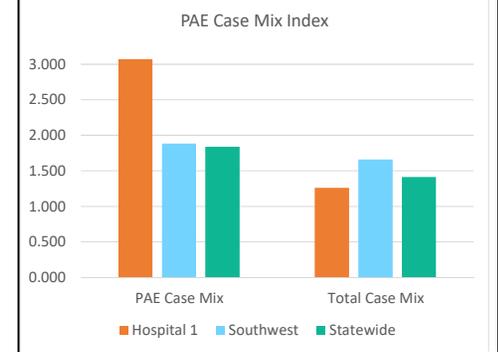
1. Total Events	Hospital 1	Southwest	Statewide
PAE	20	80	402
Total	1,652	6,828	36,206
PAE %	1.2%	1.2%	1.1%



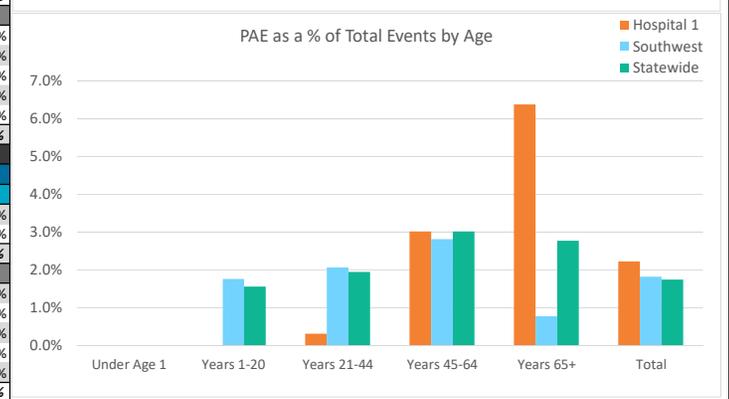
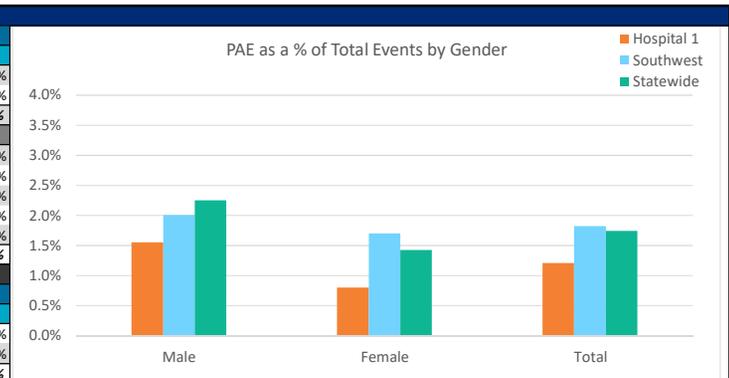
2. Total Dollars	Hospital 1	Southwest	Statewide
PAE	\$ 320,804	\$ 1,832,943	\$ 7,671,409
Total	\$ 14,436,920	\$ 89,794,542	\$ 430,402,787
PAE %	2.2%	2.0%	1.8%



3. APR-DRG Case Mix Index	Hospital 1	Southwest	Statewide
PAE Case Mix	3.073	1.883	1.840
Total Case Mix	1.263	1.660	1.414



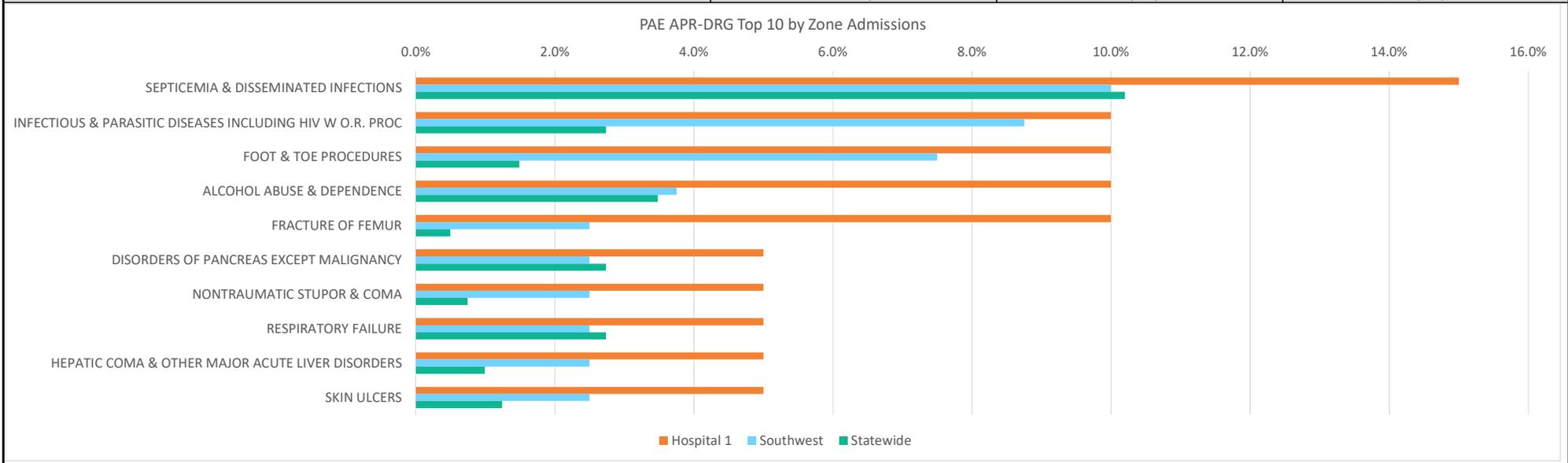
4. Events and Dollars by Age Band and Gender							
Hospital 1		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	901	14	1.6%	\$ 9,295,515	\$ 173,810	1.9%
All Ages	F	751	6	0.8%	\$ 5,141,405	\$ 146,993	2.9%
<b>Total</b>		<b>1,652</b>	<b>20</b>	<b>1.2%</b>	<b>\$ 14,436,920</b>	<b>\$ 320,804</b>	<b>2.2%</b>
Under Age 1		332	-	0.0%	\$ 1,535,655	\$ -	0.0%
Years 1-20		61	-	0.0%	\$ 225,979	\$ -	0.0%
Years 21-44		572	2	0.3%	\$ 3,720,888	\$ 11,658	0.3%
Years 45-64		612	17	2.8%	\$ 7,787,636	\$ 234,692	3.0%
Years 65+		75	1	1.3%	\$ 1,166,762	\$ 74,454	6.4%
<b>Total</b>		<b>1,652</b>	<b>20</b>	<b>1.2%</b>	<b>\$ 14,436,920</b>	<b>\$ 320,804</b>	<b>2.2%</b>
Southwest		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	3,958	44	1.1%	\$ 58,819,029	\$ 1,351,381	2.3%
All Ages	F	2,870	36	1.3%	\$ 30,975,514	\$ 481,562	1.6%
<b>Total</b>		<b>6,828</b>	<b>80</b>	<b>1.2%</b>	<b>\$ 89,794,542</b>	<b>\$ 1,832,943</b>	<b>2.0%</b>
Under Age 1		1,061	-	0.0%	\$ 10,763,648	\$ -	0.0%
Years 1-20		329	2	0.6%	\$ 2,701,081	\$ 12,594	0.5%
Years 21-44		2,400	25	1.0%	\$ 29,062,203	\$ 1,109,196	3.8%
Years 45-64		2,729	51	1.9%	\$ 42,763,675	\$ 681,216	1.6%
Years 65+		309	2	0.6%	\$ 4,503,936	\$ 29,937	0.7%
<b>Total</b>		<b>6,828</b>	<b>80</b>	<b>1.2%</b>	<b>\$ 89,794,542</b>	<b>\$ 1,832,943</b>	<b>2.0%</b>
Statewide		Events			Dollars		
Age Band	Gender	Total	PAE	% of Total	Total	PAE	% of Total
All Ages	M	18,724	238	1.3%	\$ 267,094,886	\$ 4,696,798	1.8%
All Ages	F	17,482	164	0.9%	\$ 163,307,901	\$ 2,974,611	1.8%
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>	<b>1.8%</b>
Under Age 1		7,401	-	0.0%	\$ 58,239,184	\$ -	0.0%
Years 1-20		1,614	11	0.7%	\$ 14,588,336	\$ 78,338	0.5%
Years 21-44		13,020	113	0.9%	\$ 135,495,843	\$ 2,101,206	1.6%
Years 45-64		12,177	250	2.1%	\$ 190,820,620	\$ 4,878,146	2.6%
Years 65+		1,994	28	1.4%	\$ 31,258,803	\$ 613,719	2.0%
<b>Total</b>		<b>36,206</b>	<b>402</b>	<b>1.1%</b>	<b>\$ 430,402,787</b>	<b>\$ 7,671,409</b>	<b>1.8%</b>



Template for Demonstration Only

<b>PAE Analysis:</b>	Potentially Avoidable Readmissions
<b>Program Type:</b>	Fee For Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Facility:</b>	Hospital 1

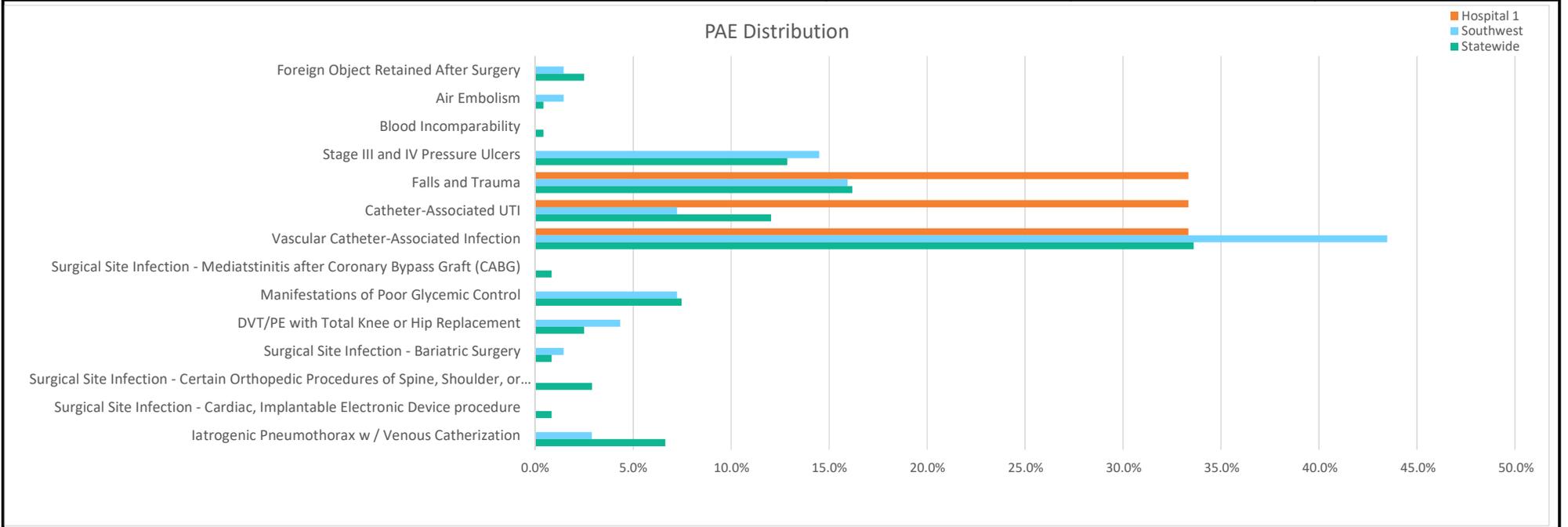
Top 10 PAE by Zone			Hospital 1			Southwest			Statewide		
Zone Rank	APR DRG	Description	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE	PAE	PAE Dollars	% of Total PAE
1	0720	SEPTICEMIA & DISSEMINATED INFECTIONS	3	\$ 28,102	15.0%	8	\$ 144,397	10.0%	41	\$ 1,280,378	10.2%
2	0710	INFECTIOUS & PARASITIC DISEASES INCLUDING HIV W O.R. PROC	2	\$ 63,044	10.0%	7	\$ 160,220	8.8%	11	\$ 223,973	2.7%
3	0314	FOOT & TOE PROCEDURES	2	\$ 35,790	10.0%	6	\$ 72,025	7.5%	6	\$ 72,025	1.5%
4	0775	ALCOHOL ABUSE & DEPENDENCE	2	\$ 15,364	10.0%	3	\$ 13,482	3.8%	14	\$ 53,955	3.5%
5	0340	FRACTURE OF FEMUR	2	\$ 12,569	10.0%	2	\$ 51,733	2.5%	2	\$ 51,733	0.5%
6	0282	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	1	\$ 74,454	5.0%	2	\$ 31,603	2.5%	11	\$ 92,618	2.7%
7	0052	NONTRAUMATIC STUPOR & COMA	1	\$ 16,867	5.0%	2	\$ 27,893	2.5%	3	\$ 36,613	0.7%
8	0133	RESPIRATORY FAILURE	1	\$ 13,792	5.0%	2	\$ 27,843	2.5%	11	\$ 119,712	2.7%
9	0279	HEPATIC COMA & OTHER MAJOR ACUTE LIVER DISORDERS	1	\$ 13,498	5.0%	2	\$ 27,245	2.5%	4	\$ 39,243	1.0%
10	0380	SKIN ULCERS	1	\$ 12,845	5.0%	2	\$ 26,547	2.5%	5	\$ 99,829	1.2%
		All Else	4	\$ 34,478	20.0%	44	\$ 1,249,955	55.0%	294	\$ 5,601,331	73.1%
		<b>Total</b>	<b>20</b>	<b>\$ 320,804</b>	<b>100.0%</b>	<b>80</b>	<b>\$ 1,832,943</b>	<b>100.0%</b>	<b>402</b>	<b>\$ 7,671,409</b>	<b>100.0%</b>



# Template for Demonstration Only

<b>PAE Analysis:</b>	Potentially Avoidable Complications
<b>Program Type:</b>	Fee for Service
<b>Service Dates:</b>	January 1, 2017 - December 31, 2017
<b>Facility:</b>	Hospital 1

1. Events by Potentially Avoidable Complication		Hospital 1		Southwest		Statewide	
PAC #	PAC Description	PAE	% of Total	PAE	% of Total	PAE	% of Total
1	Foreign Object Retained After Surgery	-	0.0%	-	0.0%	1	1.5%
2	Air Embolism	-	0.0%	-	0.0%	-	0.0%
3	Blood Incomparability	-	0.0%	-	0.0%	-	0.0%
4	Stage III and IV Pressure Ulcers	-	0.0%	2	14.3%	14	21.5%
5	Falls and Trauma	1	33.3%	7	50.0%	15	23.1%
6	Catheter-Associated UTI	1	33.3%	-	0.0%	9	13.8%
7	Vascular Catheter-Associated Infection	1	33.3%	4	28.6%	16	24.6%
8	Surgical Site Infection - Mediatstinitis after Coronary Bypass Graft (CABG)	-	0.0%	-	0.0%	-	0.0%
9	Manifestations of Poor Glycemic Control	-	0.0%	1	7.1%	7	10.8%
10	DVT/PE with Total Knee or Hip Replacement	-	0.0%	-	0.0%	1	1.5%
11	Surgical Site Infection - Bariatric Surgery	-	0.0%	-	0.0%	-	0.0%
12	Surgical Site Infection - Certain Orthopedic Procedures of Spine, Shoulder, or Elbow	-	0.0%	-	0.0%	-	0.0%
13	Surgical Site Infection - Cardiac, Implantable Electronic Device procedure	-	0.0%	-	0.0%	-	0.0%
14	Iatrogenic Pneumothorax w / Venous Catherization	-	0.0%	-	0.0%	2	3.1%
<b>Total</b>		<b>3</b>	<b>100.0%</b>	<b>14</b>	<b>100.0%</b>	<b>65</b>	<b>100.0%</b>



**MERCER (US) INC.**  
2325 East Camelback Road, Suite 600  
Phoenix, AZ 85016  
[www.mercer.com](http://www.mercer.com)