

# QUARTERLY EDIE ANALYTICS DASHBOARDS

Presented: June 19, 2020  
For the Period: Q1 2019 - Q4 2019

The reports contained within are a companion to the annual EDIE Report produced by Apprise Health Insights for the Oregon Health Leadership Council. Please refer to that report for more detail on some of the metrics used in these dashboards (e.g. High Utilizers, Joiners, Leavers, Stayers, etc.).

These reports combine two sources of data: real-time emergency department data from Collective Medical Technologies (EDIE) with more detailed emergency department discharge data from Apprise Health Insights (INFOH).

A “High Utilizer” is defined as a patient who seeks medical attention specifically at an emergency department five or more times a year.

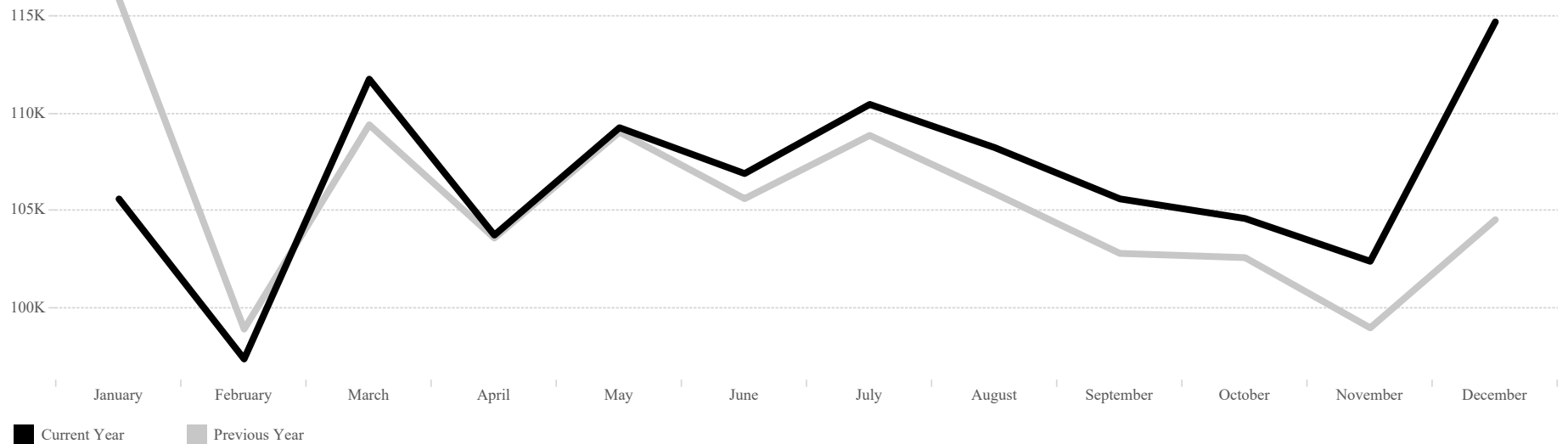
## Quick Facts

- The total number of ED visits **increased by 1.1%**
- The number of High Utilizer visits **increased by 2.5%**
- Co-morbid Mental Health related visits **increased by 16.2%**
- Co-morbid Substance Use Disorder related visits **increased by 4.2%**
- Potentially Avoidable visits from High Utilizers **decreased by 7.1%**
- **Visits decreased by 30%** in the 90 days following an initial care guideline

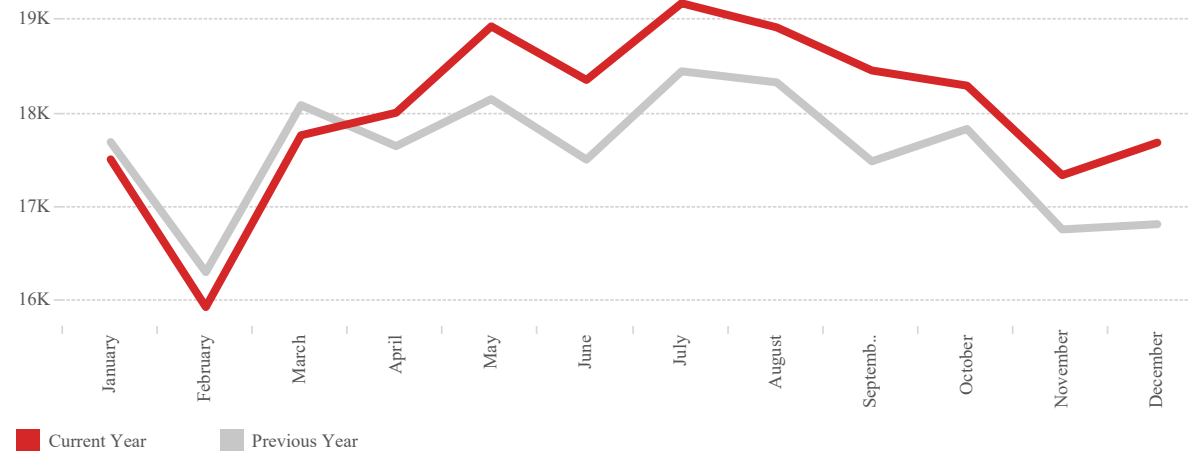
# Q1 2019 - Q4 2019 EDIE DASHBOARD

## UTILIZATION AND MOVEMENT

**Number of Emergency Department Visits in Oregon**  
(Current Year vs Previous Year)



**High Utilization Group Visits**  
(Current Year vs Previous Year)



**Noteworthy Trends:**

The number of total ED visits increased by 1.1% compared to the same time period last year.

**1,266,469** - Total ED visits in 2018

**1,280,986** - Total ED visits in 2019

The number of high utilizer visits increased by 2.5% compared to the same time period last year.

**211,134** - Total high utilizer ED visits in 2018

**216,436** - Total high utilizer ED visits in 2019

The average high utilizer patient visited an ED 7.7 times in 2019.

# Q1 2019 - Q4 2019 EDIE DASHBOARD

## HIGH UTILIZER COMORBIDITY, MENTAL HEALTH, AND SUBSTANCE USE DISORDER

### Insights:

- Both Mental Health and Substance Use Disorder related visits have increased over the past year.
- Mental Health visits with Comorbidity **increased by 16.2%** from 2018-2019.
- Substance Use Disorder visits with Comorbidity **increased by 4.2%** from 2018-2019.

### Total High Utilizer Visits

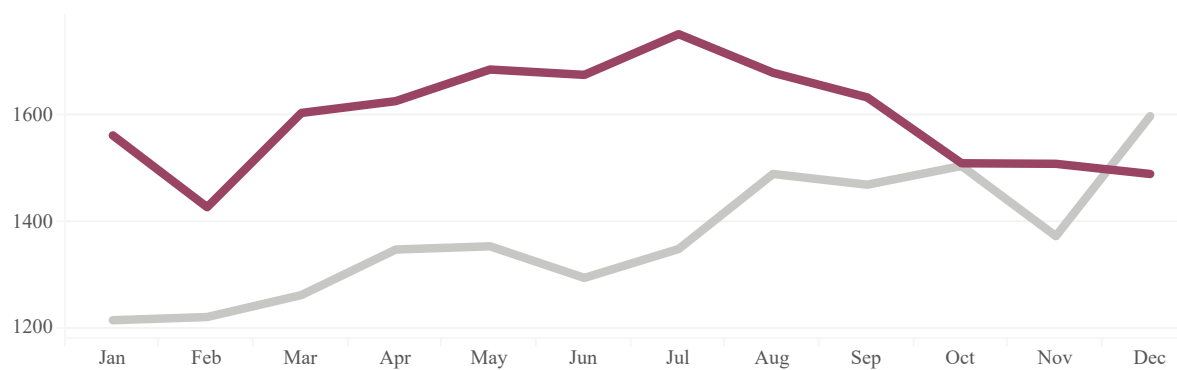
16,479

Previous Year

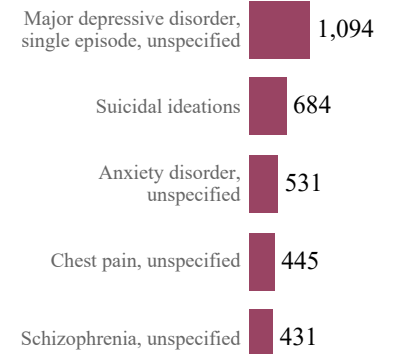
19,140

Current Year

### Comorbidity\* & Mental Health (High Utilizer Visits)



### High Utilizer Top Diagnoses



### Total High Utilizer Visits

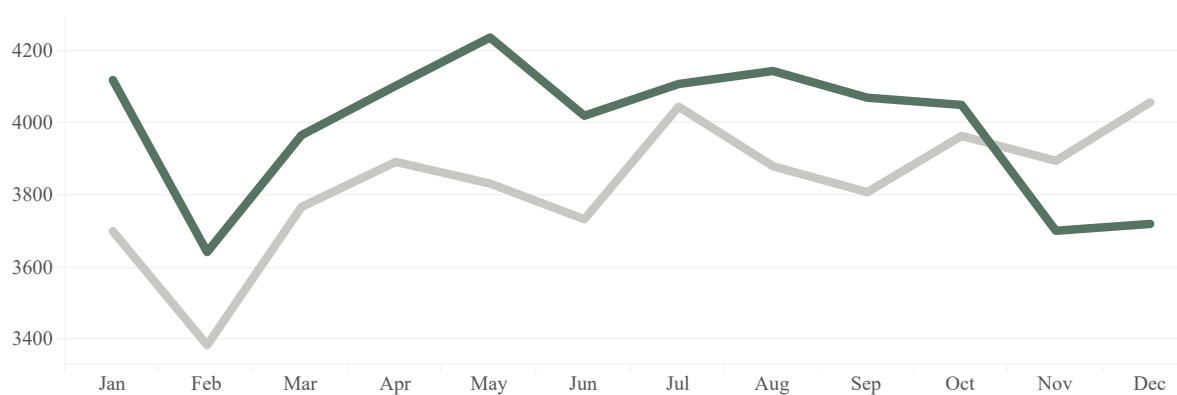
45,969

Previous Year

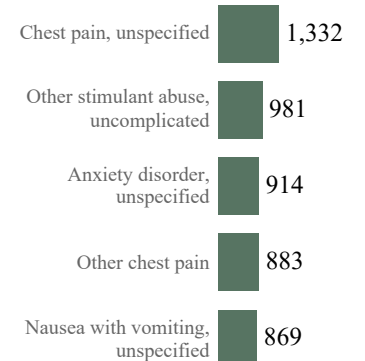
47,892

Current Year

### Comorbidity\* & Substance Use Disorder (High Utilizer Visits)



### High Utilizer Top Diagnoses



\*HCUP Clinical Classifications Software Refined (CCSR), and update to Clinical Classifications Software (CCS), may affect Comorbidity Q4 2019 onward.

# Q1 2019 - Q4 2019 EDIE DASHBOARD

## HIGH UTILIZER COMORBIDITY & MENTAL HEALTH BY REGION

### Insights:

- Southern Coast and Northwest Oregon were the only regions to see decreases in visits.

-The largest increases came from Central Oregon (63.5%) and Southern Oregon (13.7%).

-Major depressive disorder was a top diagnosis in all regions.

-Central Oregon was the only region to have nausea with vomiting and headache among its top five diagnoses

*Please see the appendix page for region definitions*

### Portland Metropolitan Area

Previous Year 7,694

Current Year 8,521

Top Diagnoses, FY 2019	Major depressive disorder, single episode, unspecified	567
	Suicidal ideations	400
	Schizophrenia, unspecified	228
	Unsp psychosis not due to a substance or known physiol cond	224
	Anxiety disorder, unspecified	222

### Central Oregon

Previous Year 1,993

Current Year 3,259

Top Diagnoses, FY 2019	Chest pain, unspecified	135
	Unspecified abdominal pain	121
	Headache	67
	Major depressive disorder, single episode, unspecified	62
	Nausea with vomiting, unspecified	59

### Eastern Oregon

Previous Year 939

Current Year 1,040

Top Diagnoses, FY 2019	Anxiety disorder, unspecified	49
	Unspecified abdominal pain	35
	Major depressive disorder, single episode, unspecified	26
	Other chest pain	26
	Chest pain, unspecified	22

### Southern Coast

Previous Year 274

Current Year 201

Top Diagnoses, FY 2019	Major depressive disorder, single episode, unspecified	48
	Schizophrenia, unspecified	22
	Anxiety disorder, unspecified	12
	Suicidal ideations	7
	Dizziness and giddiness	5

### Valley

Previous Year 2,616

Current Year 2,842

Top Diagnoses, FY 2019	Major depressive disorder, single episode, unspecified	248
	Suicidal ideations	118
	Schizophrenia, unspecified	113
	Anxiety disorder, unspecified	88
	Bipolar disorder, unspecified	82

### Southern Oregon

Previous Year 2,590

Current Year 2,946

Top Diagnoses, FY 2019	Major depressive disorder, single episode, unspecified	99
	Chest pain, unspecified	86
	Anxiety disorder, unspecified	85
	Suicidal ideations	63
	Urinary tract infection, site not specified	56

### Northwest Oregon

Previous Year 373

Current Year 331

Top Diagnoses, FY 2019	Major depressive disorder, single episode, unspecified	44
	Suicidal ideations	42
	Anxiety disorder, unspecified	18
	Schizophrenia, unspecified	18
	Bipolar disorder, unspecified	12

# Q1 2019 - Q4 2019 EDIE DASHBOARD

## HIGH UTILIZER COMORBIDITY & SUBSTANCE USE DISORDER BY REGION

### Insights:

- Eastern Oregon, Southern Coast, and Northwest Oregon regions saw decreases in visits this year.

-The largest increases came from Central Oregon (17.5%) and Southern Oregon (8.5%).

-All regions had some form of chest pain among their top five diagnoses.

-Portland Metropolitan Area was the only region to have suicidal ideations among its top five diagnoses.

*Please see the appendix page for region definitions*

### Portland Metropolitan Area

Previous Year 16,030

Current Year 16,719

Top Diagnoses, FY 2019	Other stimulant abuse, uncomplicated	527
	Chest pain, unspecified	402
	Other chest pain	385
	Suicidal ideations	314
	Anxiety disorder, unspecified	290

### Central Oregon

Previous Year 3,578

Current Year 4,205

Top Diagnoses, FY 2019	Chest pain, unspecified	164
	Unspecified abdominal pain	152
	Nausea with vomiting, unspecified	86
	Low back pain	67
	Other chest pain	64

### Eastern Oregon

Previous Year 1,629

Current Year 1,510

Top Diagnoses, FY 2019	Unspecified abdominal pain	42
	Chest pain, unspecified	40
	Other chest pain	33
	Nausea with vomiting, unspecified	28
	Headache	26

### Southern Coast

Previous Year 775

Current Year 511

Top Diagnoses, FY 2019	Chronic obstructive pulmonary disease w (acute) exacerbation	29
	Anxiety disorder, unspecified	15
	Major depressive disorder, single episode, unspecified	14
	Other stimulant abuse, uncomplicated	14
	Other specified disorders of teeth and supporting structures	13

### Valley

Previous Year 14,263

Current Year 15,304

Top Diagnoses, FY 2019	Chest pain, unspecified	440
	Anxiety disorder, unspecified	382
	Nausea with vomiting, unspecified	289
	Low back pain	270
	Headache	249

### Southern Oregon

Previous Year 6,102

Current Year 6,633

Top Diagnoses, FY 2019	Chest pain, unspecified	218
	Unspecified abdominal pain	135
	Nausea with vomiting, unspecified	132
	Other stimulant abuse, uncomplicated	121
	Anxiety disorder, unspecified	114

### Northwest Oregon

Previous Year 3,592

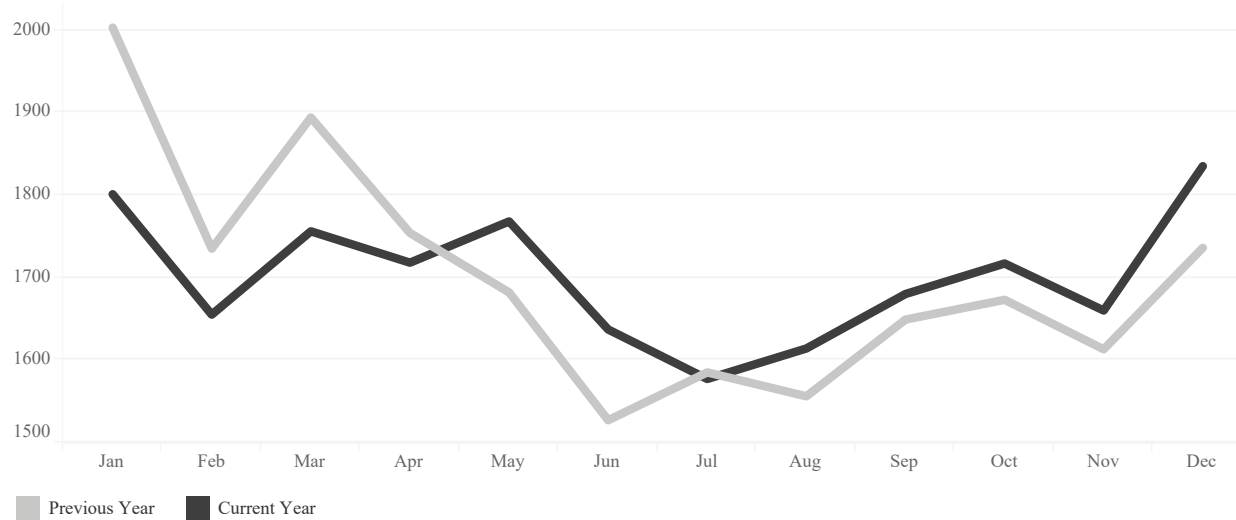
Current Year 3,010

Top Diagnoses, FY 2019	Nausea with vomiting, unspecified	71
	Other chest pain	71
	Chronic obstructive pulmonary disease w (acute) exacerbation	70
	Chest pain, unspecified	61
	Headache	49

# Q1 2019 - Q4 2019 EDIE DASHBOARD

## HIGH UTILIZER POTENTIALLY AVOIDABLE VISITS & CARE GUIDELINE IMPACT ANALYSIS

**Potentially Avoidable Visits**  
(High Utilizers)



**Potentially Avoidable Visits:**

When a patient uses an emergency department for any non-urgent health related issue that can be safely and effectively treated in a setting outside of an emergency room.

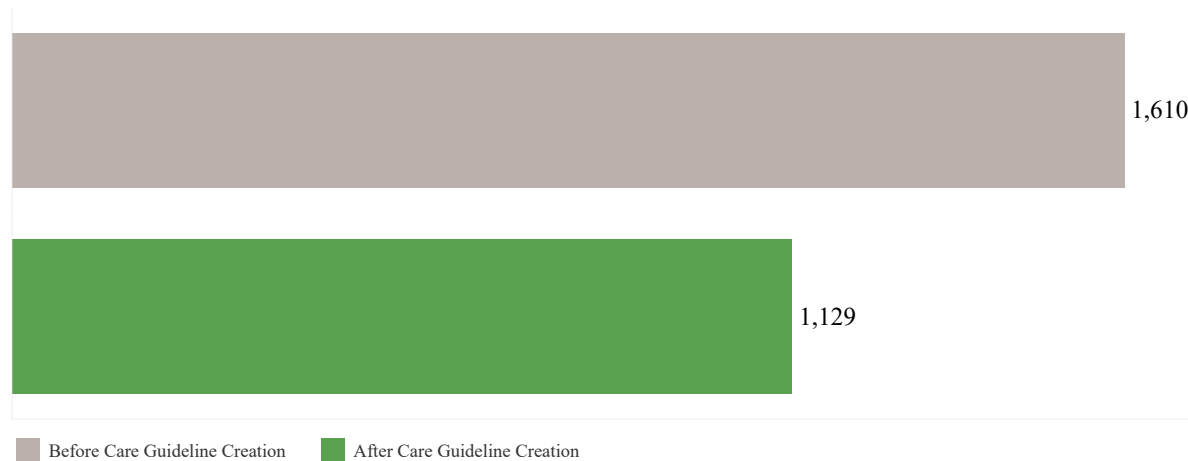
**Potentially Avoidable Visits Insights:**

Potentially Avoidable visits from High Utilizers has increased from 2018-2019 by **0.05%**

**20,407** - Potentially Avoidable visits from High Utilizers in 2018

**20,418** - Potentially Avoidable visits from High Utilizers in 2019

**Visits Before/After Care Guideline Creation**  
(90 days by High Utilizer Total Visits)



**Care Guideline Insights:**

Visits decreased by **30%** in the 90 days following an initial care guideline creation

**1,610** = Total number of visits by High Utilizers in the 90 days before a care guideline was implemented

**1,129** = Total number of visits by High Utilizers in the 90 days after a care guideline was implemented

# Appendix - Region Designations

<p style="text-align: center;"><b>Portland Metropolitan Area</b></p>	<p>Adventist Health Portland Kaiser Sunnyside Medical Center Kaiser Westside Medical Center Legacy Emanuel Medical Center Legacy Good Samaritan Medical Center Legacy Meridian Park Medical Center Legacy Mount Hood Medical Center OHSU Hospital Providence Milwaukie Hospital Providence Portland Medical Center Providence St Vincent Medical Ctr Providence Willamette Falls Medical Ctr Shriners Hospital for Children Tuality Healthcare Legacy Unity Behavioral Health</p>	<p style="text-align: center;"><b>Valley</b></p>	<p>Good Samaritan Regional Medical Center McKenzie-Willamette Medical Center PeaceHealth Cottage Grove Community Medical Center PeaceHealth Peace Harbor Medical Center PeaceHealth Sacred Heart Medical Center at RiverBend PeaceHealth Sacred Heart Medical Center University District Salem Hospital Samaritan Albany General Hospital Samaritan Lebanon Community Hospital Santiam Memorial Hospital Legacy Silverton Medical Center Salem Health West Valley</p>
<p style="text-align: center;"><b>Central Oregon</b></p>	<p>Mid-Columbia Medical Center Providence Hood River Memorial Hospital St Charles Bend St Charles Madras St Charles Prineville St. Charles Redmond</p>	<p style="text-align: center;"><b>Northwest Oregon</b></p>	<p>Columbia Memorial Hospital Providence Newberg Medical Center Providence Seaside Hospital Samaritan North Lincoln Hospital Samaritan Pacific Communities Hospital Adventist Health Tillamook Willamette Valley Medical Ctr</p>
		<p style="text-align: center;"><b>Southern Coast</b></p>	<p>Bay Area Hospital Coquille Valley Hospital Curry General Hospital Lower Umpqua Hospital Southern Coos Hospital &amp; Health Center</p>
<p style="text-align: center;"><b>Eastern Oregon</b></p>	<p>Blue Mountain Hospital District Good Shepherd Health Care System Grande Ronde Hospital Harney District Hospital Lake District Hospital Pioneer Memorial Hospital (H) Saint Alphonsus Medical Center - Baker City Saint Alphonsus Medical Center - Ontario CHI St Anthony Hospital Wallowa Memorial Hospital</p>	<p style="text-align: center;"><b>Southern Oregon</b></p>	<p>Asante Ashland Community Hospital Asante Rogue Regional Medical center Asante Three Rivers Medical Center Mercy Medical Center Providence Medford Medical Center Sky Lakes Medical Center</p>