In order to determine the leading cause of death of persons living within the city limits of Salem, data was taken from Death Certificates for ten months, September 2017 thru June 2018.

MONTH	LEADING CAUSE	2ND LEADING CAUSE	OTHERS
September 2017	Heart Related	Cancer	Respiratory, Drugs, Alzheimers, Pneumonia
October 2017	Heart Related	Cancer/Failure to Thrive/Respiratory/ Stroke	Respiratory, Alzheimers, Diabetes, Urosepsis
November 2017	Heart Related/ Cancer/Respiratory		Sepsis, Dementia, Pneumonia, Renal Fail., Hepatic Fail..
December 2017	Heart Related	Respiratory	Cancer, Malnutrition, Multisystem Fail.
January 2018	Cancer	Heart Related/ Respiratory	Hemorrhage,Pneumonia, Pulmonary, Alzheimers, Renal Fail.
February 2018	Heart Related	Cancer	Renal Failure, Respiratory, Malnutrition, Sepsis,
March 2018	Heart Related		Parkinsons, Drugs, Pneumonia, Hypotension
April 2018	Heart	Cancer, Stroke, Respiratory	Alzheimers, Sepsis, Parkinsons, Pneumonia
May 2018	Heart		Failure Thrive, Liver Disease, Respiratory
June 2018	Heart	Cancer	Sepsis

There was a total of 128 deaths of persons living and dying within the city limits of Salem between September 2017 through June 2018.

Heart related deaths were a total of 43 deaths for an average of 34%; Cancer deaths were a total of 22 for an average of 17%; Respiratory related deaths were a total of 18 for an average of 14%.

The Other category had 16 deaths, including Multisystem Failure, Diabetes, Liver Failure, Hepatic Failure, Renal Failure, Malnutrition, Gastrointestinal Hemorrhage, Pulmonary Embolism, Hypotension, and Liver Disease for an average of 12 ½% of the total cases.

The city of Salem was divided in four (4) sections with State Street dividing the north/south section and Hawley Ave. dividing the east/west.
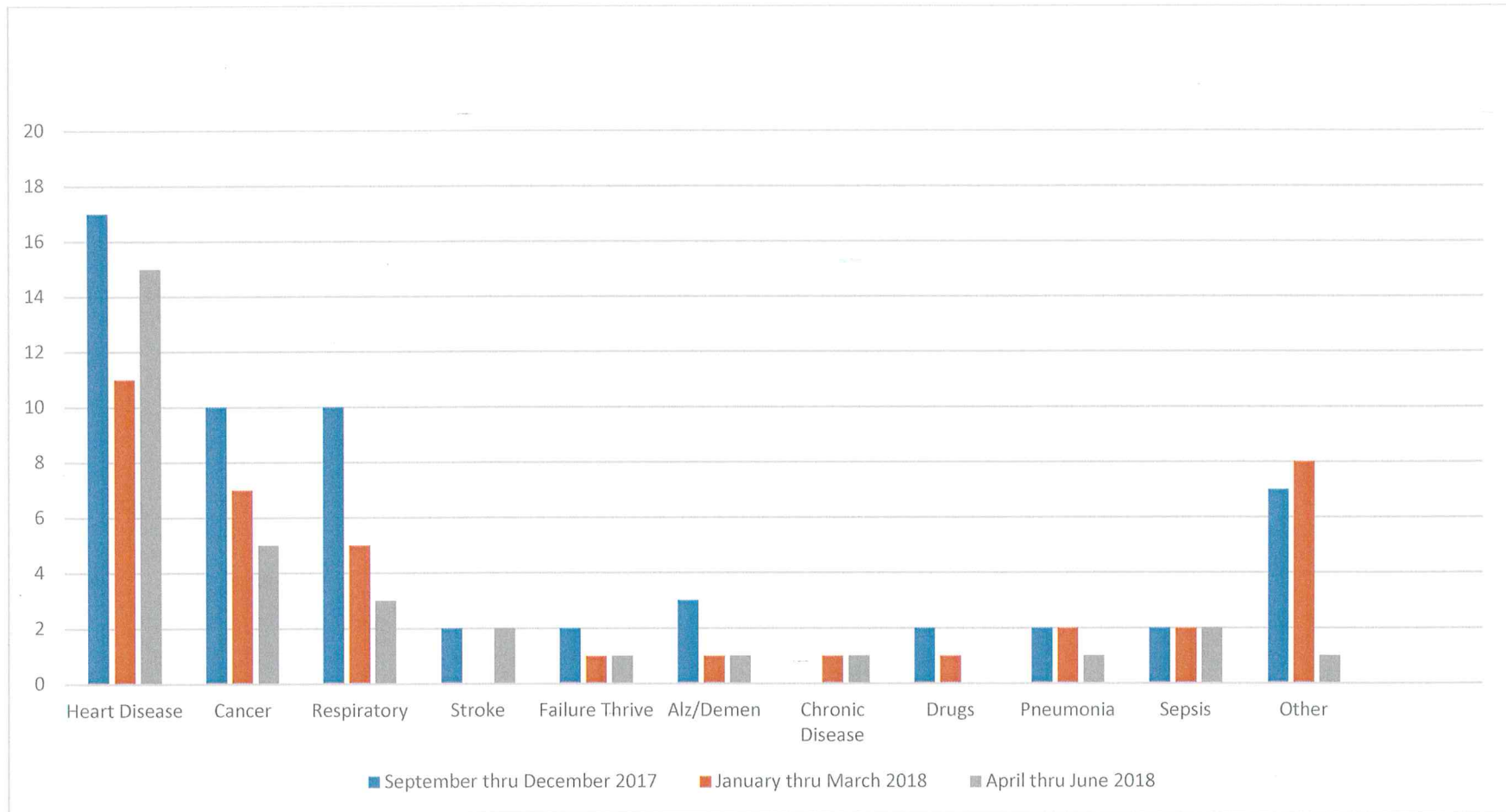
	Heart Related	Cancer	Respiratory Related
Section #1 Northwest Area	15 Deaths	4 Deaths	3 Deaths
Section #2 Northeast Area Includes 4 nursing homes & an assisted living Center	14 Deaths	10 Deaths	9 Deaths
Section #3 Southwest Area		2 Deaths	1 Death
Section #4 Southeast Area	10 Deaths	4 Deaths	5 Death

Out of the 128 deaths, nine (9) had contributing factors of tobacco use, fifty-seven (57) had none, forty-nine (49) were unknown and in thirteen (13) cases tobacco probably contributed to their death.

The results of this data is that although heart, cancer and respiratory are the leading causes of death, it is not necessarily due to tobacco use. And, with drugs so prevalent in the Salem area, only three (3) persons died from drug overdose.

SALEM CITY HEALTH DISTRICT – VITAL STATISTICS
PERFORMANCE IMPROVEMENT DATA

CAUSES OF DEATH OF PERSONS LIVING WITHIN THE CITY LIMITS
September 2017 thru June 2018

Chart legend: ■ September thru December 2017   ■ January thru March 2018   ■ April thru June 2018

Categories: Heart Disease, Cancer, Respiratory, Stroke, Failure Thrive, Alz/Demen, Chronic Disease, Drugs, Pneumonia, Sepsis, Other

SCHD PERFORMANCE IMPROVEMENT DATA

Division	Performance Improvement	April 2018	May 2018	June 2018
Vital Statistics Terri Hunter Pat Howard	**Priority**: Decrease leading cause of death **Strategy**: Increase community awareness **Action**: Establish the leading cause of death in the city	Total Done: 16 **1st** 5 Heart Related – 31% **2nd** 3 Cancer– 19% **3rd** 2 Stroke Related- 12 ½% 2 Respiratory- 12 ½% **All others:** 4 – 25%	Total Done: 8 **1st** 5 Heart Related– 62 ½% **2nd** **All others** 3 – 37 ½%	Total Done: 8 **1st** 5 Heart Related– 62 ½% **2nd** 2 Cancer– 25% **All others** 1 – 12 ½%
	Percent:	Percent: 31%	Percent: 62 ½%	Percent: 62 ½%

APRIL 2018

#	CAUSE		TOBACCO	SECTION
1	Cerebral Infarction	Stroke	No	4
2	Myocardial Infarction	Heart	Unkn-Unkn	2-4
2	Respiratory Failure	Respiratory	Unkn-Unkn	2-2
1	Intracranial Hemorrhage	Stroke	No	2
2	Congestive Heart Failure	Heart	Nkn0No	1-2
1	Alzheimer's		Bi	2
1	Sepsis		No	2
1	Parkinson's		No	2
1	Pneumonia		Yes	3
1	Lymphoma	Cancer	No	4
1	Cardiac Arrest	Heart	Unkn	2
1	Prostate Cancer	Cancer	Unkn	1
1	Hypoxia/Carcinoma of Lung	Cancer	Unkn	4

16 Deaths- 5 Heart   #1 – 31%
            3 Cancer   #2 – 19%
            2 Stroke   #3 – 25% (stroke- 12 ½%; respiratory- 12 ½%)
            2 Respiratory
            4 Other   #4 – 25%

2 – Section 1   Tobacco Use -   7 - No
9 – Section 2   1 - Yes
1 – Section 3   8 - Unknown
4 – Section 4   0 - Probably

MAY 2018

#	CAUSE		TOBACCO	SECTION
1	Cardiac Arrhythmia	Heart	Unkn	1
2	Sudden Cardiac Death	Heart	Unkn- No	4 – 1
1	Failure to Thrive		No	2
1	End Stage Liver Disease		Unkn	1
1	Myocardial Infarction	Heart	Unkn	4
1	Cardiac Arrest	Heart	Unkn	2
1	Respiratory Failure		Yes	4

8 Deaths-   5 Heart   #1 – 62 ½ %
                3 Other   #2 – 37 ½ %

3 – Section 1   Tobacco Use -   2 - No
2 – Section 2   1 - Yes
0 – Section 3   5 - Unknown
3 – Section 4   0 - Probably

JUNE 2018

#	CAUSE		TOBACCO	SECTION
1	Cardiac Arrhythmia	Heart	No	1
3	Acute Cardio-Pulmonary Arrest	Heart	No–No-Unk	2 – 4 - 2
1	Sepsis		Unkn	4
1	Congestive Heart Failure	Heart	No	1
1	Malignant Neoplasm Cervix, metastatic	Cancer	No	1
1	Colon Cancer	Cancer	No	2

8 Deaths-   5 Heart   #1 – 62 ½ %
             2 Cancer   #2 – 25%
             1 Other   #3 - 12 ½ %

3 – Section 1   Tobacco Use -   6 - No
3 – Section 2   0 - Yes
0 – Section 3   2 - Unknown
2 – Section 4   0 - Probably

SCHD PERFORMANCE IMPROVEMENT DATA

Division	Performance Improvement	January 2018	February 2018	March 2018
Vital Statistics Terri Hunter Pat Howard	**Priority**: Decrease leading cause of death **Strategy**: Increase community awareness **Action**: Establish the leading cause of death in the city	Total Done: 17 **1st** 4 Cancer- 24% **2nd** 3 Heart Related- 17 ½ % 3 Respiratory- 17 ½% **All others:** 7 - 41%	Total Done: 15 **1st** 5 Heart Related- 33 1/3% **2nd** 3 Cancer– 20% **3rd** 2 Respiratory- 13 1/3% **All others** 5 – 33 1/3%	Total Done: 7 **1st** 3 Heart Related– 43% **2nd** **All others** 4 – 57%
	Percent:	Percent: 24%	Percent: 33 1/3%	Percent:43%

JANUARY 2018

#	CAUSE		TOBACCO	SECTION
1	COPD	Respiratory	Yes	2
1	Lower Gastrointestinal Hemorrhage		No	2
1	Glioblastoma Multiform	Cancer	No	2
1	Sepsis		No	1
1	Lung Cancer	Cancer	Prob	2
2	Acute Respiratory Failure	Respiratory	Unkn-Prob	2-2
2	Diffuse large B-cell lymphoma	Cancer	No-Unkn	2-3
2	Acute Myocardial Infarction	Heart	No – Yes	1-1
1	Acute Pulmonary Embolus		No	2
2	Pneumonia		Prob-Prob	2-4
1	Cardiac Arrest	Heart	No	3
1	Alzheimer's	Alz/Demen	Unkn	2
1	Renal Failure		Prob	4

17 Deaths -   4 Cancer   #1 – 24%
                 3 Heart   #2 – 35% (Heart – 17 ½%; Respiratory – 17 ½%)
                 3 Respiratory
                 7 Others   #3 – 41%

                 3 – Section 1
                10 – Section 2   Tobacco Use – 2 - yes
                2 – Section 3   7 - no
                2 – Section 4   3 – Unknown
                                            5 – Probably

FEBRUARY 2018

#	CAUSE		TOBACCO	SECTION
1	Metastatic Malignancy of unknow origin	Cancer	Prob	2
1	Metastatic Colon Cancer	Cancer	No	2
1	Lung Cancer w/Metastasis	Cancer	Prob	1
1	Acute Renal Failure		No	2
2	Myocardial Infarction	Heart	Unk-Unk	2-1
1	Respiratory Failure	Respiratory	Unk	1
1	Congestive Heart Failure	Heart	Unk	2
1	Acute Intracoronary Thrombus	Heart	Unk	1
1	Failure to Thrive		No	2
1	Malnutrition		Unk	2
1	Arrhythmia	Heart	No	3
1	Acute Hypoxic Respiratory Failure	Respiratory	Unk	2
1	Sepsis		No	2
1	Multisystem Failure		No	2

15 Deaths -   5 Heart   #1 – 33 1/3%
                 3 Cancer   #2 – 20%
                 2 Respiratory #3 - 13 1/3%
                 5 Others   #4 – 33 1/3%

         4 – Section 1   Tobacco Use – 0 - yes
        10 – Section 2   6 - no
         1 – Section 3   7 – Unknown
         0 – Section 4   2 – Probably

MARCH 2018

#	CAUSE		TOBACCO	SECTION
1	Cocaine Overdose	Drugs	Unkn	4
1	Failure to Thrive/Parkinson's		No	2
1	Cardiorespiratory	Heart	No	1
1	Pneumonia		Prob	3
2	Congestive Heart Failure	Heart	Unkn-No	1-3
1	Hypotension		Unkn	1

7 Deaths-   3 Heart   #1 – 43%
              4 Other   #2 – 57%

3 – Section 1   Tobacco Use -   3 - No
1 – Section 2   0 - Yes
2 – Section 3   3 - Unknown
1 – Section 4   1 - Probably

SCHD PERFORMANCE IMPROVEMENT DATA

Division	Performance Improvement	Trial Month September2017	October 2017	November 2017	December 2017
Vital Statistics Terri Hunter Pat Howard	**Priority**: Decrease leading cause of death **Strategy**: Increase community awareness **Action**: Establish the leading cause of death in the city	Total Done: 12 **1st** 5 Heart Related- 42% **2nd** 2 Cancer – 17% **All others:** 5 - 41%	Total Done: 15 **1st** 3 Heart Related- 20% **2nd** 2 Cancer - 6 2/3% 2 Failure to Thrive - 6 2/3% 2 Respiratory- 6 2/3% 2 Stroke- 6 2/3% **All others:** 4 – 26 2/3%	Total Done: 17 **1st** 4 Heart Related – 23 2/3% 4 Cancer- 23 2/3% 4 Respiratory- 23 2/3% **All others:** 5 - 29%	Total Done: 13 **1st** 5 Heart Related - 39% **2nd** 3 Respiratory Failure– 23% **3rd** 2 Cancer- 15% **All others** 3 - 23%
		Percent: 42%	Percent: 20%	Percent: 71%	Percent: 39%

SEPTEMBER 2017

#	CAUSE		TOBACCO	SECTION
2	Lung Cancer	Cancer	Yes – Unkn	1 - 2
2	Cardiac Arrest	Heart	No – Unkn	1 – 2
1	Multisystem Failure		Unkn	2
1	Congestive Heart Failure	Heart	No	2
1	Hypoxic Respiratory Failure	Respiratory	Unkn	4
2	Arrythmia	Heart	No – Unkn	4 – 4
1	Dementia/Alzheimer's	Alz/Demen	No	1
1	Aspiration Pneumonia Dysphagia		Unkn	1
1	Cocaine	Drugs	Unkn	1

12 Deaths -   5 Heart   #1 – 42%
               2 Cancer   #2 – 17%
               5 Others   #3 – 41%

               5 – Section 1   Tobacco Use – 1 - yes
               4 – Section 2   4 - no
               3 – Section 4   7 – Unknown

OCTOBER 2017

#	CAUSE		TOBACCO	SECTION
2	Cardio Pulmonary Arrest	Heart	No- No	3 - 3
1	Hypoxic Respiratory Failure	Respiratory	Prob	4
1	Dementia/Alzheimer's	Alz/Demen	No	2
1	Diabetes		Unkn	3
2	Failure to Thrive	Thrive	No – No	2 - 2
1	Leukemia	Cancer	Unkn	2
1	Hemorrhagic Stroke	Stroke	Unkn	4
1	Liver Failure		Unkn	2
1	Urosepsis		No	3
1	Coronary Artery Disease	Heart	Unkn	4
1	Malignant Neoplasm Lung	Cancer	Unkn	2
1	Cerebral Infarction	Stroke	Unkn	4
1	COPD	Respiratory	Yes	4

15 Deaths -

3 Heart   #1 – 20%
2 Cancer/2 Thrive/   #2 – 53 1/3% (cancer-6 2/3%; failure to thrive- 6 2/3%;
2 Respiratory/2 Stroke   Respiratory– 6 2/3%; stroke- 6 2/3%)
4 Others   #3 – 26 2/3%

5 – Section 2   Tobacco Use – 1 - yes
3 – Section 3   6 - no
5 – Section 4   7 – Unknown
                                          1 – Probably

NOVEMBER 2017

#	CAUSE		TOBACCO	SECTION
1	Squamous Cell Carcinoma	Cancer	Prob	4
1	COPD	Respiratory	Yes	3
1	Sepsis		No	2
2	Cardio Pulmonary Arrest	Heart	No- No	2- 4
1	Vascular Dementia		No	2
3	Respiratory Arrest	Respiratory	Prob-No-Unk	4-2-1
1	Hepatic Failure		No	1
2	Lung Cancer	Cancer	Yes – Yes	1 – 2
1	Pneumonia		No	2
1	Renal Failure		Unkn	1
1	Liver Cancer	Cancer	Unkn	2
1	Cardiac Dysrhythmia	Heart	Prob	1
1	Congestive Heart Failure	Heart	No	4

17 Deaths -   4 Heart   #1 – 71% (heart $23\frac{2}{3}$% ; cancer $23\frac{2}{3}$%;
                4 Cancer   respiratory $23\frac{2}{3}$%)
                4 Respiratory
                5 Others   #2 – 29%

                5 – Section 1   Tobacco Use – 3 - yes
                7 – Section 2   8 - no
                1 – Section 3   3 – Unknown
                4 – Section 4   3 – Probably

DECEMBER 2017

#	CAUSE		TOBACCO	SECTION
1	Cardio Pulmonary Arrest	Heart	No	2
1	Cocaine	Drugs	Unkn	3
1	Metastatic Neoplasm of Jejunum	Cancer	No	3
1	Pancreatic Cancer	Cancer	No	4
1	Cardiac Arrhythmia	Heart	No	4
1	Acute Myocardial	Heart	Unkn	1
1	Respiratory Infection	Respiratory	Unkn	1
1	Protein Calorie Malnutrition		No	1
2	Congestive Heart Failure	Heart	Prob-No	3-2
2	Respiratory Failure	Respiratory	No-No	2-2
1	Multisystem Failure		Unkn	4

13 Deaths - 5 Heart   #1 – 39%
             3 Respiratory   #2 – 23%
             2 Cancer   #3 – 15%
             3 Others   #4 – 23%

             3 – Section 1   Tobacco Use – 0 - yes
             4 – Section 2   8 - no
             3 – Section 3   4 – Unknown
             3 – Section 4   1 – Probably

Respectfully Submitted:
Terri Hunter, Registar
Pat Howard, Deputy Registrar