



**VISION**

ALASKA INDIVIDUALS, FAMILIES AND COMMUNITIES ARE SAFE AND HEALTHY

**MISSION**

TO PROMOTE AND PROTECT THE HEALTH AND WELL-BEING OF ALASKANS

House Health & Social Services | Division of Public Health Overview

Jay C. Butler, M.D. | Chief Medical Officer & Director

Jill Lewis | Deputy Director

February 16, 2017

# FY2018 Public Health Overview

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**Mission:** To protect and promote the health of Alaskans

- 425 Positions
- \$117,372.1 (\$43,015.3 UGF)

Two Foundational Concepts:

- Total FY2016 service population: All Alaskans
- Local public health

# Budget Reductions and Impacts

<b>Since FY2015</b>	<b>UGF Reduction</b>	<b>-\$10,545.8 ↓</b>	<b>-20% ↓</b>
	<b>FTE Decrease</b>	<b>-63 ↓</b>	<b>-13% ↓</b>



Decreased from 22 staffed public health centers to 16. Seward, Cordova, Ft. Yukon, Galena, Haines and Wrangell now served by itinerant nurses.



Limited public health services for immunizations, reproductive health and sexually transmitted diseases to persons aged 29 years and younger.



Stopped contact investigations for sexually transmitted diseases unless pregnant.



Stopped well-child examinations to children aged 7 years and older.



Stopped laboratory testing for virus cultures, fungal cultures and anaerobic bacteria cultures.



Eliminated tuberculosis screening supplies for low-risk schools.



Three of seven school districts lost their wellness coordinators.



Delays in certifying Emergency Medical Service instructors make it more difficult for EMS providers to become or remain certified.



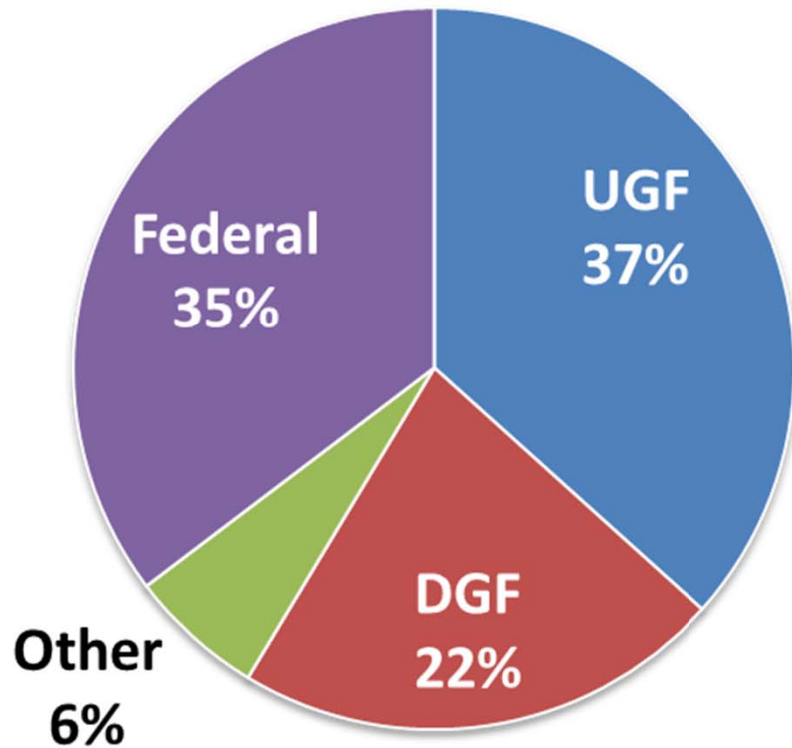
Fairbanks Vital Statistics field office closed.



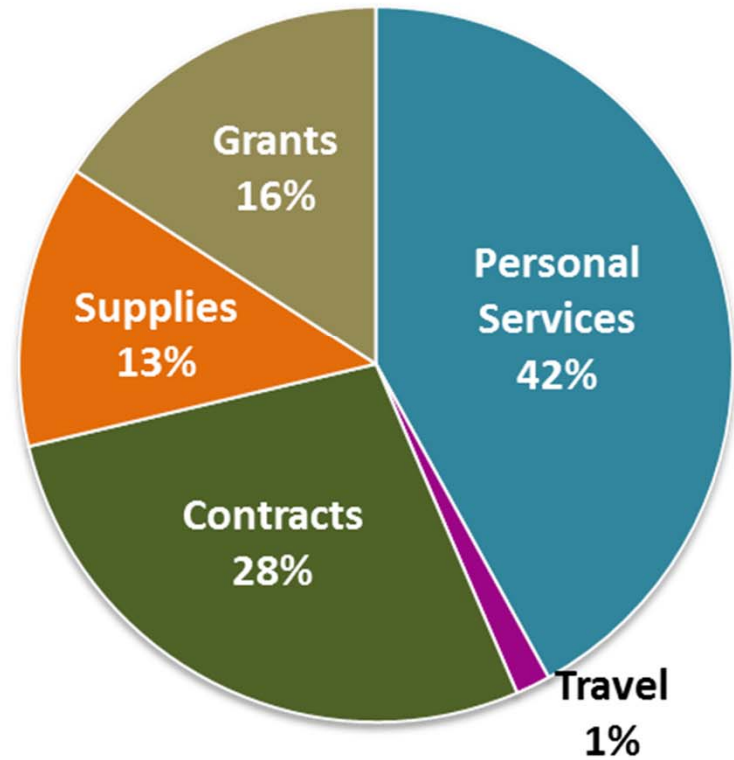
No new healthcare practitioner loan repayment contracts that require state UGF.

# FY2018 Governor's Budget

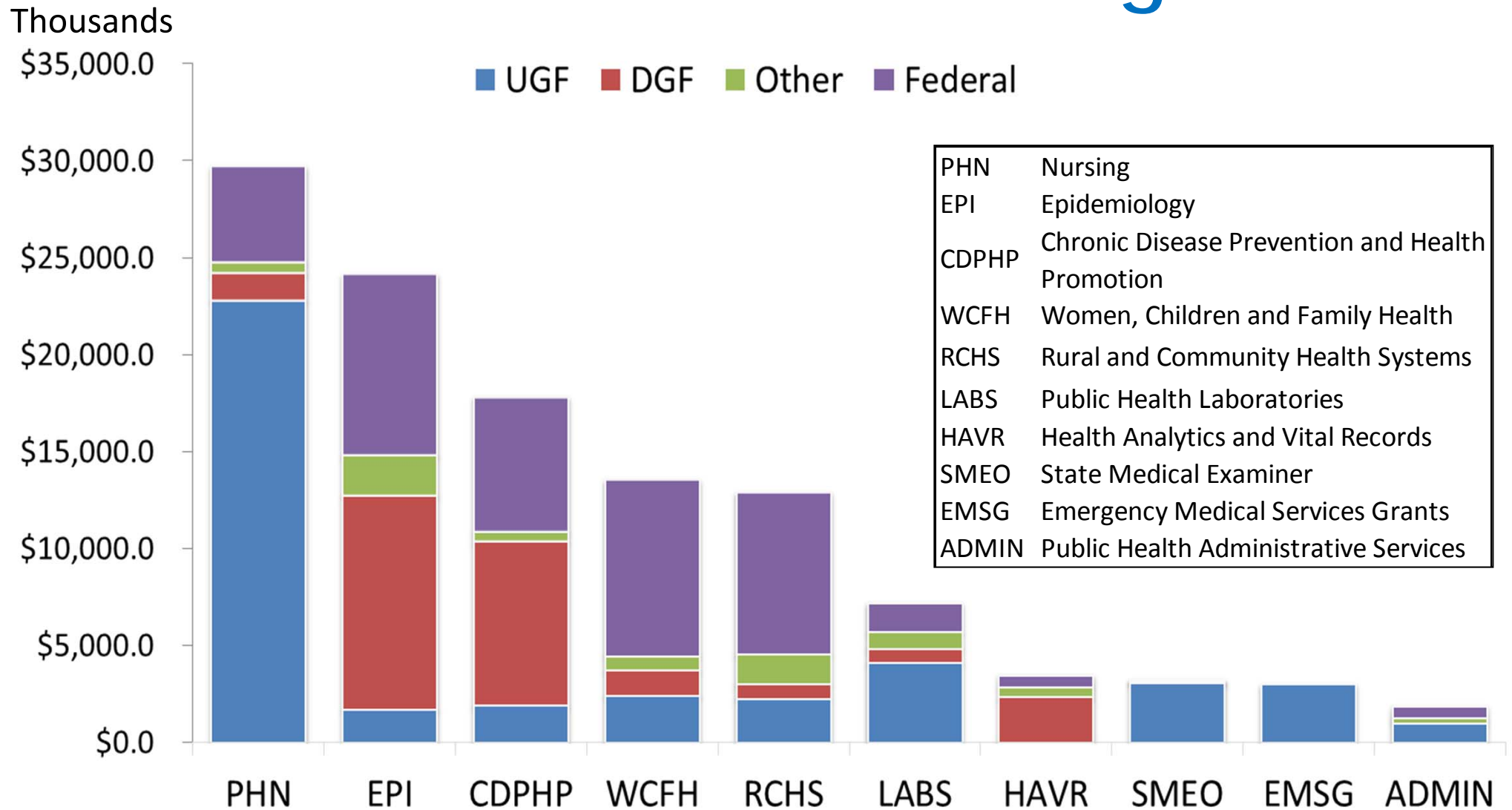
**Revenues**



**Expenditures**



# FY2018 Governor's Budget



# FY2018 Governor's Operating Budget

## GF Decrements

(-\$1,592.1 UGF/-\$11,989.6 DGF)

Rural and Community Health Systems (Health Planning & Systems Development)	-\$22.7	UGF	Reduce Strengthening Healthcare Access through Loan Repayment (SHARP)
Rural and Community Health Systems (Emergency Programs)	-\$50.0	UGF	Emergency Medical Services study expiration
Rural and Community Health Systems (Emergency Medical Services Grants)	-\$160.0	UGF	Reduce grants to EMS regions
Rural and Community Health Systems (Community Health Grants)	-\$1,164.1	UGF	Transition community health aide grants to 100% federal Medicaid
Chronic Disease Prevention and Health Promotion	-\$103.8	UGF	Reduce staff costs due to retirements
Epidemiology	-\$91.5	UGF	Reduce unused authority for Alaska Vaccine Assessment
	-\$11,989.6	DGF	

# FY2018 Governor's Budget

	Allocation and/or Program	Funding (in thousands)	# of Employees	# of Alaskans Served	% Cost through Fees	Rating of Importance to Mission	Rating of Effectiveness	Constitution Requirement	Federally Required	Required by Statute
	<b>Public Health (502)</b>	<b>\$117,372.1:</b> <b>\$43,015.3 UGF</b> <b>\$25,804.7 DGF</b> <b>\$41,436.3 Fed</b> <b>\$7,115.8 Other</b>	<b>425</b>	<b>All Alaskans</b>	<b>13.80%</b>	<b>Critical</b>	<b>1</b>	<b>Yes</b>	<b>No</b>	<b>Yes</b>
<b>1</b>	Health Planning and Systems Development (2765)	** In FY2018 this component will be combined with Emergency Programs.								
<b>2</b>	Nursing (288)	\$29,727.0: \$22,834.0 UGF \$1,379.1 DGF \$4,949.5 Fed \$564.4 Other	<b>160</b>	All Alaskans	8.0%	Critical	2	Yes	No	18.05, Administration of Public Health and Related Laws 18.15, Disease Control and Threats to Public Health/Public Health Authority and Powers 44.29.020, Duties of the Department of Health and Social Services 47.05.010 - 050, Federal classifications for disease and Federal rates, ability to set policy for records, cooperation with Feds
<b>3</b>	Women, Children and Family Health (2788)	\$13,573.3: \$2,465.6 UGF \$1,272.0 DGF \$9,077.4 Fed \$758.3 Other	<b>45</b>	All Alaskans	10.0%	Critical	1	Yes	No	14.30.065, 127, Physical Examinations and Screening Examinations 18.05.010, Administration of Public Health and Related Laws 18.05.032, Information Relating to Pregnancy and Pregnancy Alternatives 18.15.200, Screening for Metabolic Disorders 44.29.020, Duties of the Department of Health and Social Services 47.05.010, Administration of Welfare, Social Services, and Institutions 47.18.010, Development of Statewide Plan for Programs and Services Related to Adolescents 47.20.300, Newborn and Infant Hearing Screening, Tracking and Intervention Program
<b>4</b>	Public Health Administrative Services (292)	\$1,896.0: \$1,024.9 UGF \$586.1 Fed \$285.0 Other	<b>12</b>	All Alaskans	0.00%	Critical	1	No	No	18.05.010, Administration of Public Health and Related Laws 44.29.020, Duties of the Department of Health and Social Services
<b>5</b>	Emergency Programs (2877)	\$12,928.8: \$2,297.5 UGF \$746.8 DGF \$8,353.5 Fed \$1,531.0 Other	<b>23</b>	All Alaskans	5.9%	Critical	1	Yes	No	18.05.010, Administration of Public Health and Related Laws 18.08, Emergency Medical Services and Trauma Care Fund 18.28.010, Community Health Aide Grants 18.29, Health Care Professions Loan Repayment and Incentive Program 44.29.020, Duties of the Department of Health and Social Services

# FY2018 Governor's Budget

	Allocation and/or Program	Funding (in thousands)	# of Employees	# of Alaskans Served	% Cost through Fees	Rating of Importance to Mission	Rating of Effectiveness	Constitution Requirement	Federally Required	Required by Statute
6	Chronic Disease Prevention and Health Promotion (2818)	\$17,836.1: \$1,959.6 UGF \$8,434.0 DGF \$6,956.0 Fed \$486.5 Other	41	All Alaskans	1.1%	Critical	1	Yes	No	18.05.010, Administration of Public Health and Related Laws 44.29.020, Duties of the Department of Health and Social Services
7	Epidemiology (296)	\$24,169.1: \$1,751.6 UGF \$11,000.0 DGF \$9,332.5 Fed \$2,085.0 Other	59	All Alaskans	40.3%	Critical	1	Yes	No	18.05.010, Administration of Public Health and Related Laws 18.09.200, State Immunization Program 18.15.160, Test for Syphilis 18.15.200, Screening for Metabolic Disorders 18.15.250, Vaccination Program for Volunteer Emergency Personnel 18.15.270, Testing Procedures for Gonorrhea and Chlamydia 18.15.370, Reportable Disease List 44.29.020, Duties of the Department of Health and Social Services
8	Bureau of Vital Statistics (961)	\$3,500.7: \$143.4 UGF \$2,227.8 DGF \$644.6 Fed \$484.9 Other	27	All Alaskans	74.9%	Critical	1	Yes	No	09.55.050-.060, Presumptive Death Certificates 17.37.010-.070, Registry of Patients Relating to Medical Marijuana 18.05.010, Administration of Public Health and Related Laws 18.50, Vital Statistics Act 25.05.071-.391, Marriage Licenses 25.20.050-.055, Legitimation of Children and the Paternity Program 25.23.150-.170, Adoption Proceedings
9	Emergency Medical Services Grants (2309)	\$3,033.7: \$3,033.7 UGF	-	All Alaskans	0.0%	Critical	1	Yes	No	18.05.010, Administration of Public Health and Related Laws 18.08, Emergency Medical Services and Trauma Care Fund
10	State Medical Examiner (293)	\$3,217.6: \$3,112.6 UGF \$20.0 DGF \$10.0 Fed \$75.0 Other	19	All Alaskans	0.6%	Critical	1	Yes	No	12.65, Death Investigations and Medical Examiners 18.05.010, Administration of Public Health and Related Laws
11	Public Health Laboratories (2252)	\$7,239.8: \$4,142.4 UGF \$725.0 DGF \$1,526.7 Fed \$845.7 Other	39	All Alaskans	23.4%	Critical	1	Yes	No	18.05.010, Administration of Public Health and Related Laws 18.15.160, Test for Syphilis 18.60.475 - 545, Radiation Protection 44.29.020, Duties of the Department of Health and Social Services
12	Community Health Grants (2308)	\$250.0: \$250.0 UGF	-	All Alaskans	0.0%	Critical	1	No	No	18.05.010, Administration of Public Health and Related Laws 18.28.010 - 100, State Assistance for Community Health Aide Programs



# Public Health Services



## Women's, Children's, and Family Health | Stephanie Wrightsman-Birch

Promote healthy behaviors; reduce chronic diseases and injuries along with their risk factors



## Chronic Disease Prevention and Health Promotion | Tari O'Connor

Promote healthy behaviors; reduce chronic diseases and injuries along with their risk factors



## Epidemiology | Joe McLaughlin, MD

Keep Alaskans safe from communicable diseases; injuries; and environmental, occupational, and other health hazards

# Public Health Services



## **Nursing** | Linda Worman, RN

Deliver public health nursing services to individuals and families, groups, communities, and systems



## **Public Health Laboratories** | Bernd Jilly

Analyze human, environmental, and forensic samples to identify, treat, and control communicable diseases, toxic substances, and radiation



## **State Medical Examiner** | Gary Zientek, MD

Conduct medico-legal investigations of unanticipated, sudden, and violent deaths in Alaska

# Public Health Services

## Rural and Community Health Systems



### Emergency Programs | Andy Jones

Sustain the emergency medical services & trauma systems & ensure that public health & medical entities prepare for disasters



### Health Planning & Systems Development

Ensure access to quality preventive, primary, and acute health care services

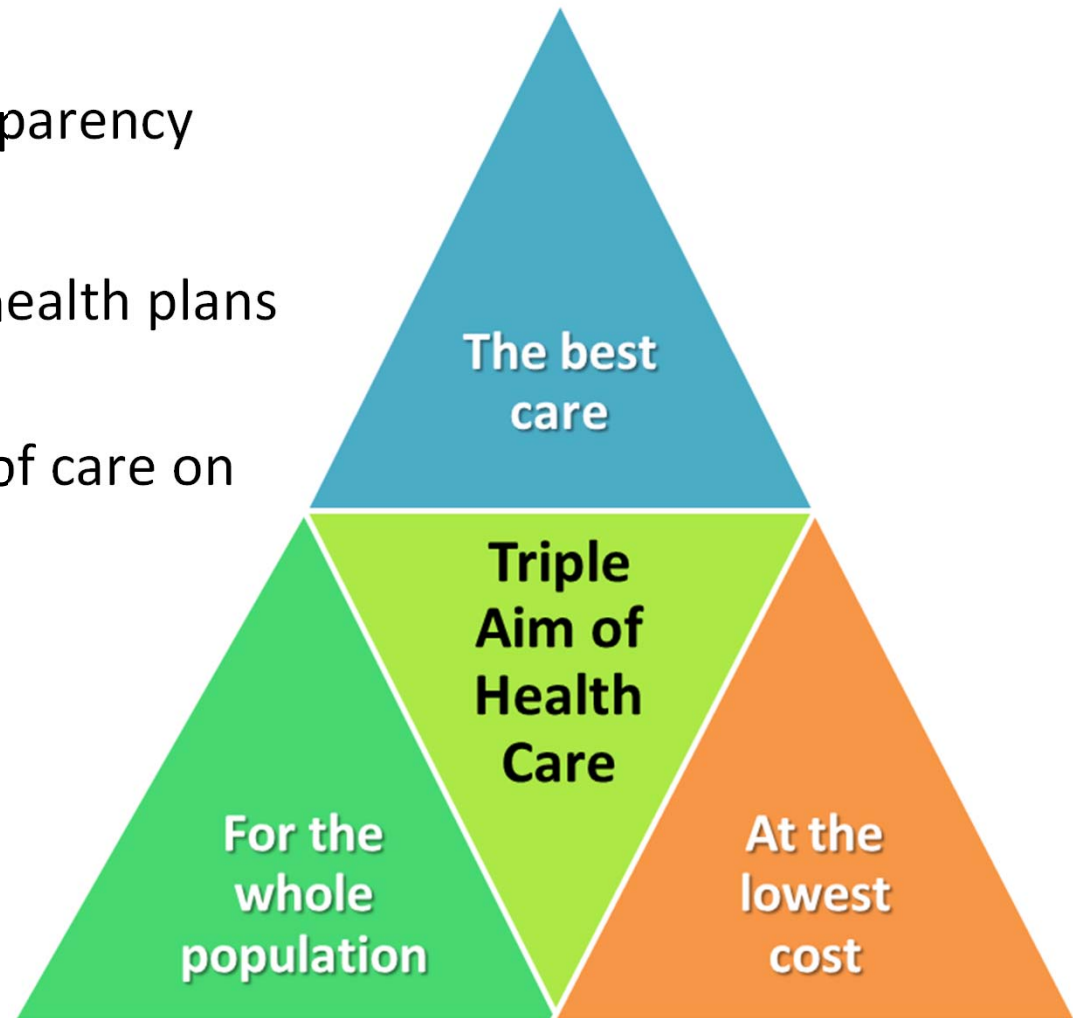


### Health Analytics and Vital Records | Heidi Lengdorfer

Manage vital records and report statistics on the health of Alaskans (Bureau of Vital Statistics)

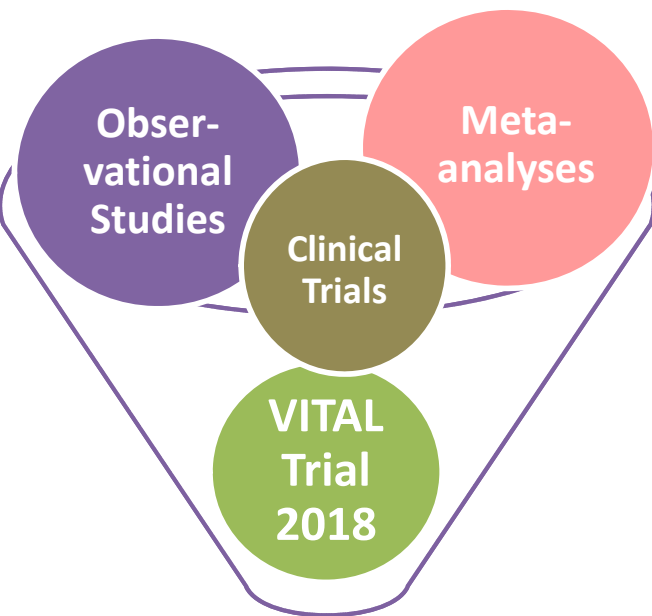
# Public Health Approaches to Reducing Health Care Cost

1. Ensure the best available evidence is used for making decisions
2. Increase price and quality transparency
3. Pay for value
4. Engage employers to improve health plans and employee wellness
5. Enhance quality and efficiency of care on the front-end
6. Increase dignity and quality of care for seriously ill patients
7. Build the foundation of a sustainable health care system
8. Focus on prevention

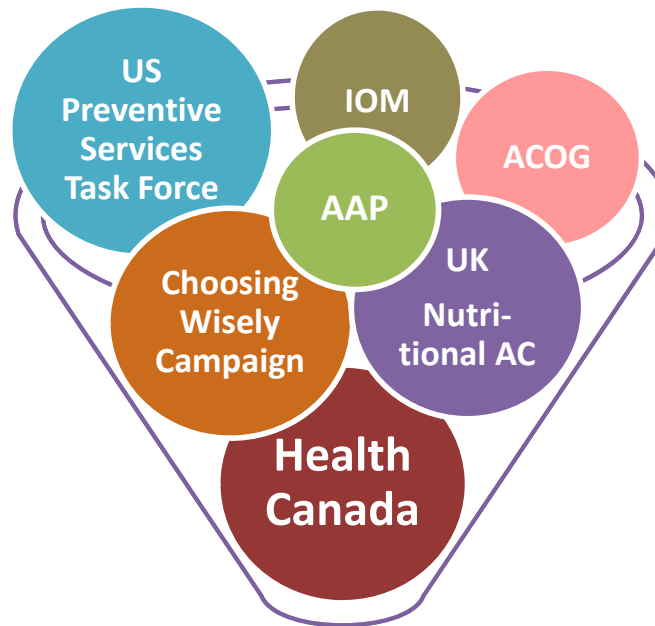


# Vitamin D: Current Use and Future Potential

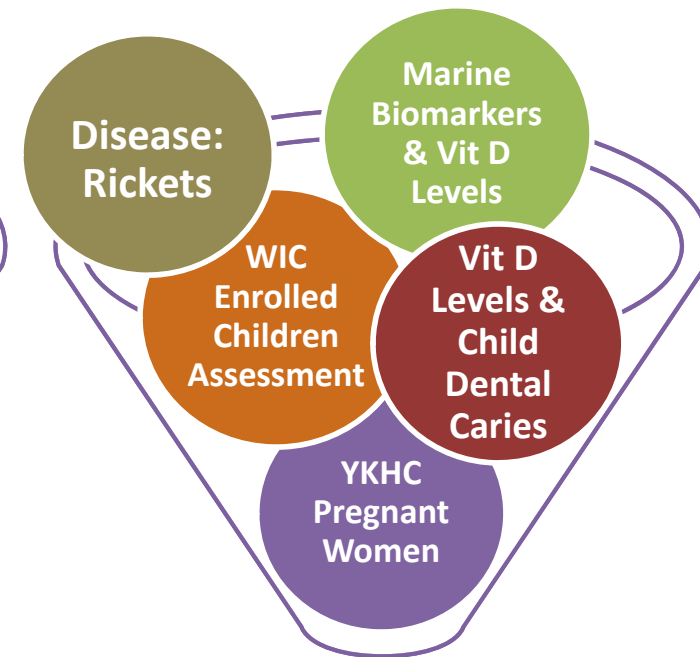
## Medical Literature and Ongoing Studies



## Medical Guidelines and Public Health Recommendations



## Alaska Perspective and Studies

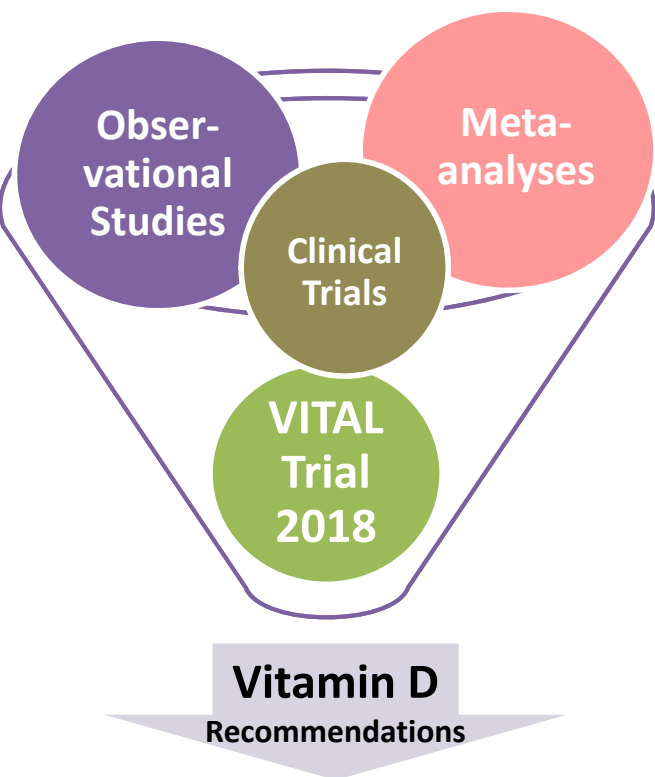


AAP = American Academy of Pediatrics  
ACOG = American College of Obstetrics and  
Gynecology  
AC = Advisory Committee

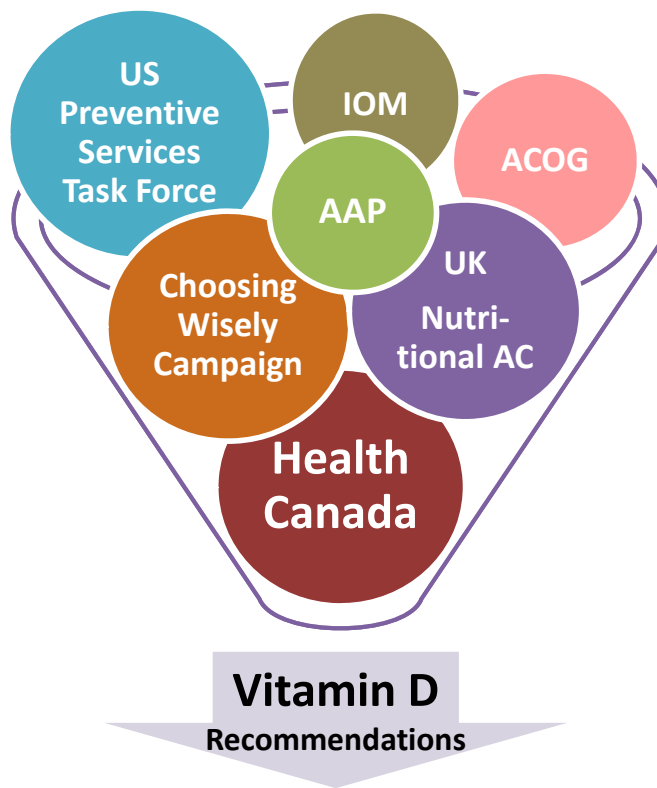
IOM = Institute of Medicine  
UK = United Kingdom  
WIC = Women, Infant and Children  
YKHC = Yukon-Kuskokwim Health Corporation

# Vitamin D: Current Use and Future Potential

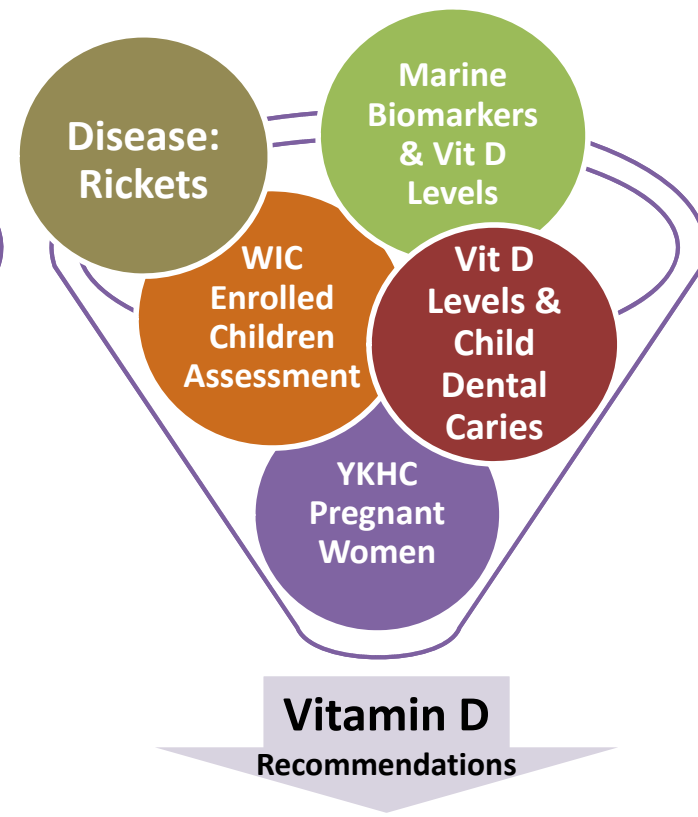
## Medical Literature and Ongoing Studies



## Medical Guidelines and Public Health Recommendations



## Alaska Perspective and Studies



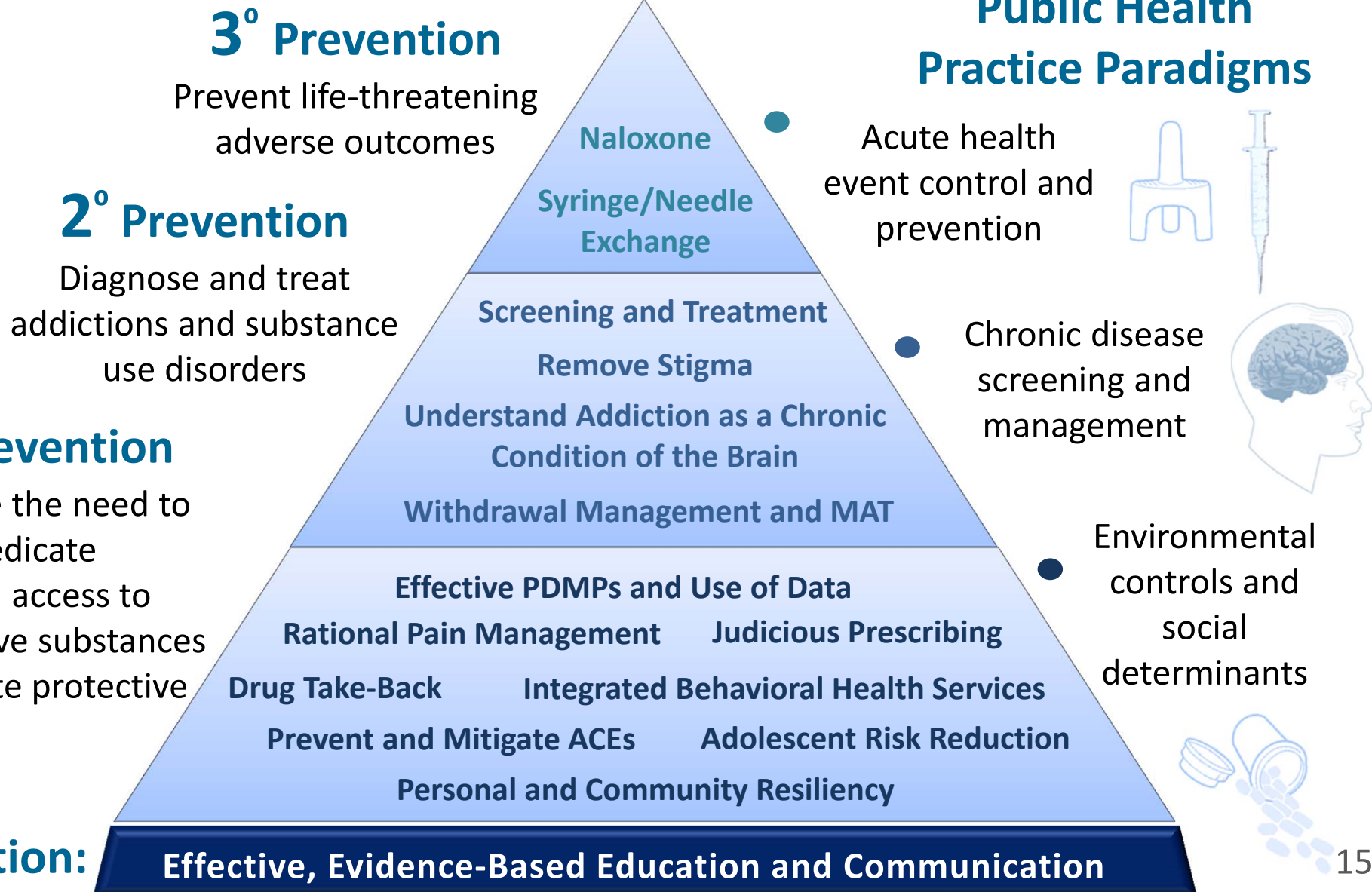
**Clinicians assess risk and determine appropriate intervention on a case-by-case basis:**

- High-risk infants/children (cystic fibrosis, malabsorption, metabolic disorders)
- Breast-fed babies or those taking less than 1 liter infant formula per day
- High-risk adults (home-bound, malabsorption, osteoporosis)

# Public Health Approaches to Preventing Opioid Misuse and Addiction



## Public Health Practice Paradigms





QUESTIONS?

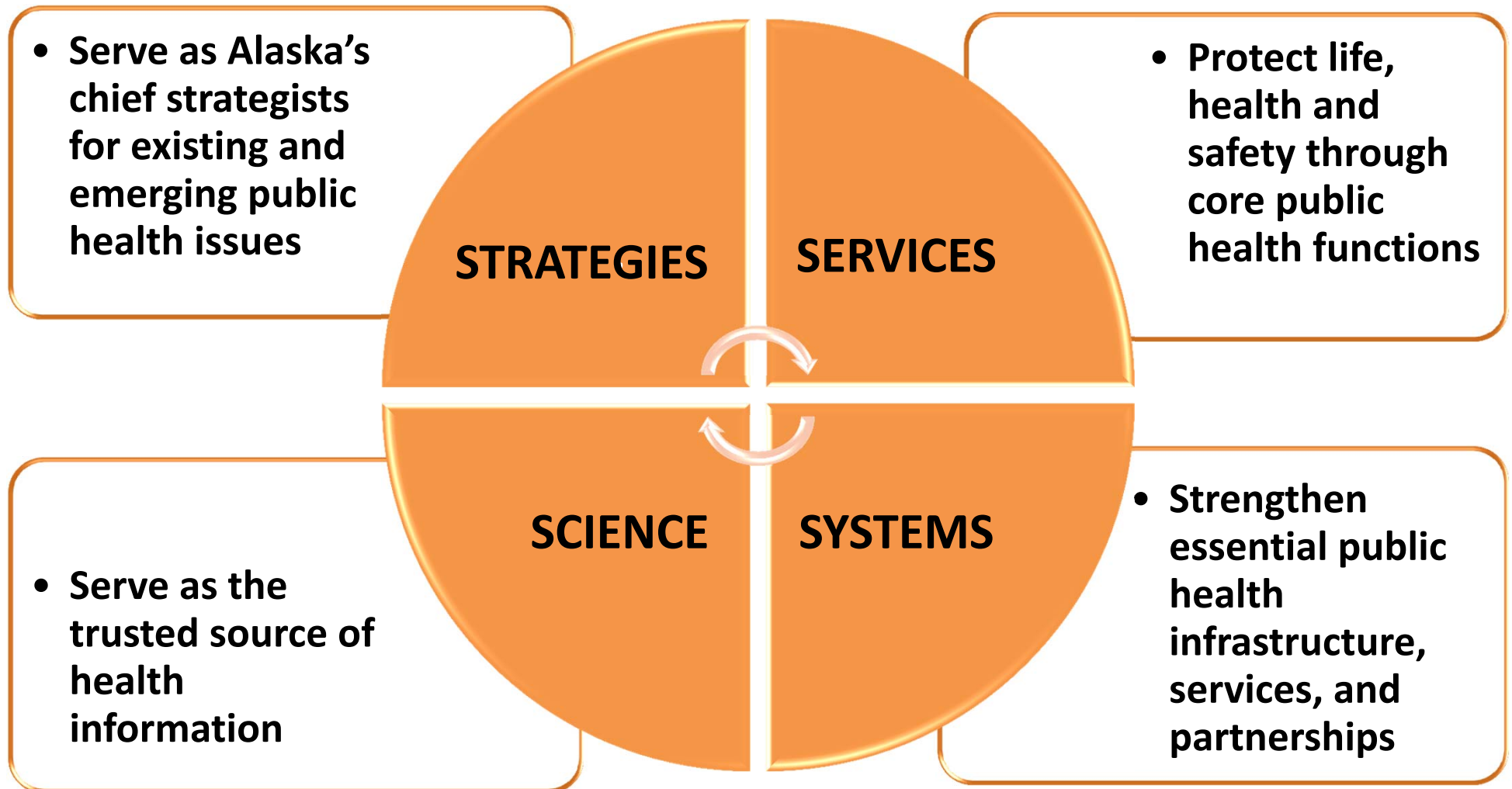
Thank You



**MISSION** TO PROMOTE AND PROTECT THE HEALTH AND WELL-BEING OF ALASKANS



# ALASKA DIVISION OF PUBLIC HEALTH STRATEGIC PLAN 2016–2020



# Alaska's Winnable Battles

## DECREASE TOBACCO AND NICOTINE USE

- Decrease use of smoking, chewing, and vaping tobacco products

## DECREASE COLORECTAL AND CERVICAL CANCER

- Increase colorectal screening among people aged 50 and over
- Increase on-time human papillomavirus vaccinations
- Increase appropriate cervical cancer screening

## INCREASE ACCESS TO HEALTH CARE

- Increase proportion of Alaskans with an appropriate medical home

## IMPROVE CHILD AND ADOLESCENT HEALTH

- Increase the proportion of children who are at a healthy weight
- Reduce the proportion of children who die before their first birthday
- Increase the percent of children with on-time immunizations
- Reduce the rate of teen pregnancy

## DECREASE INFECTIOUS DISEASE

- Reduce the rate of sexually transmitted infections
- Decrease the rate of hepatitis C infection among injection drug users

## PREVENT POISONING AND OVERDOSE

- Decrease opioid overdose
- Decrease childhood poisonings



# HEALTHY ALASKANS 2020

A JOINT PROJECT OF THE STATE OF ALASKA DEPARTMENT OF HEALTH AND SOCIAL SERVICES & THE ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

## Healthy Alaskans 2020 Scorecard

Leading Health Indicator		Baseline	Target	Current	Progress
1	Deaths from cancer per 100,000 persons	176.0	162.0	159.1	★
2	Adolescents who are tobacco-free	75%	80%	82%	★
3	Adults who are tobacco-free	78%	83%	80%	▲
4	Adults who are overweight	38%	36%	37%	▲
	Adults who are obese	29%	27%	30%	●
5	Adolescents who are overweight	14%	12%	17%	●
	Adolescents who are obese	12%	10%	14%	●
	Children who are overweight	17%	15%	17%	●
	Children who are obese	17%	15%	17%	●
6	Physically active adults	58%	61%	55%	●
	Physically active adolescents	20%	23%	21%	▲
7	Deaths from suicide for ages 15-24 years	46%	43%	38%	★
	Deaths from suicide for ages 25 years and older	25%	24%	27%	●
8	Adolescents experiencing poor mental health	25%	23%	34%	●
9	Days per month adults were mentally unhealthy	3.2	2.9	3.1	▲
10	Adolescents with family and/or social support	45%	47%	46%	▲
★ Target Met    ▲ On Track to Reach Target    ● Not on Track to Reach Target					





# HEALTHY ALASKANS 2020

A JOINT PROJECT OF THE STATE OF ALASKA DEPARTMENT OF HEALTH AND SOCIAL SERVICES & THE ALASKA NATIVE TRIBAL HEALTH CONSORTIUM

## Healthy Alaskans 2020 Scorecard

	Leading Health Indicator	Baseline	Target	Current	Progress
11	Child maltreatment victims per 1000 children	15.3	14.4	13.3	★
12	Rate of rape per 100,000 persons	125.4	113.0	104.7	★
13	Adolescents abused by their boyfriend or girlfriend	9%	8%	10%	●
14	Deaths from alcohol per 100,000 persons	16.3	15.3	17.8	●
15	Adults binge drinking	22%	20%	2%	▲
	Adolescents binge drinking	22%	17%	13%	★
16	Deaths from unintentional injury per 100,000 persons	58.3	54.8	54.6	★
17	Children age 2 years immunized	65%	75%	67%	▲
18	Chlamydia infection rate per 100,000 persons	849.6	705.2	766.4	▲
19	In-home water and wastewater services	78%	87%	85%	▲
20	Community fluoridated water systems	55%	58%	44%	●
21	Pregnant women with no prenatal care in first trimester	21%	19%	22%	●
22	Preventable hospitalizations per 1000 adults	7.1	6.7	7.3	●
23	Adults unable to afford to see a doctor	15%	14%	14%	★
24	Population above the poverty level	85%	90%	83%	●
25	18-24 year olds with high school diploma or equivalent	82%	86%	87%	★



Target Met



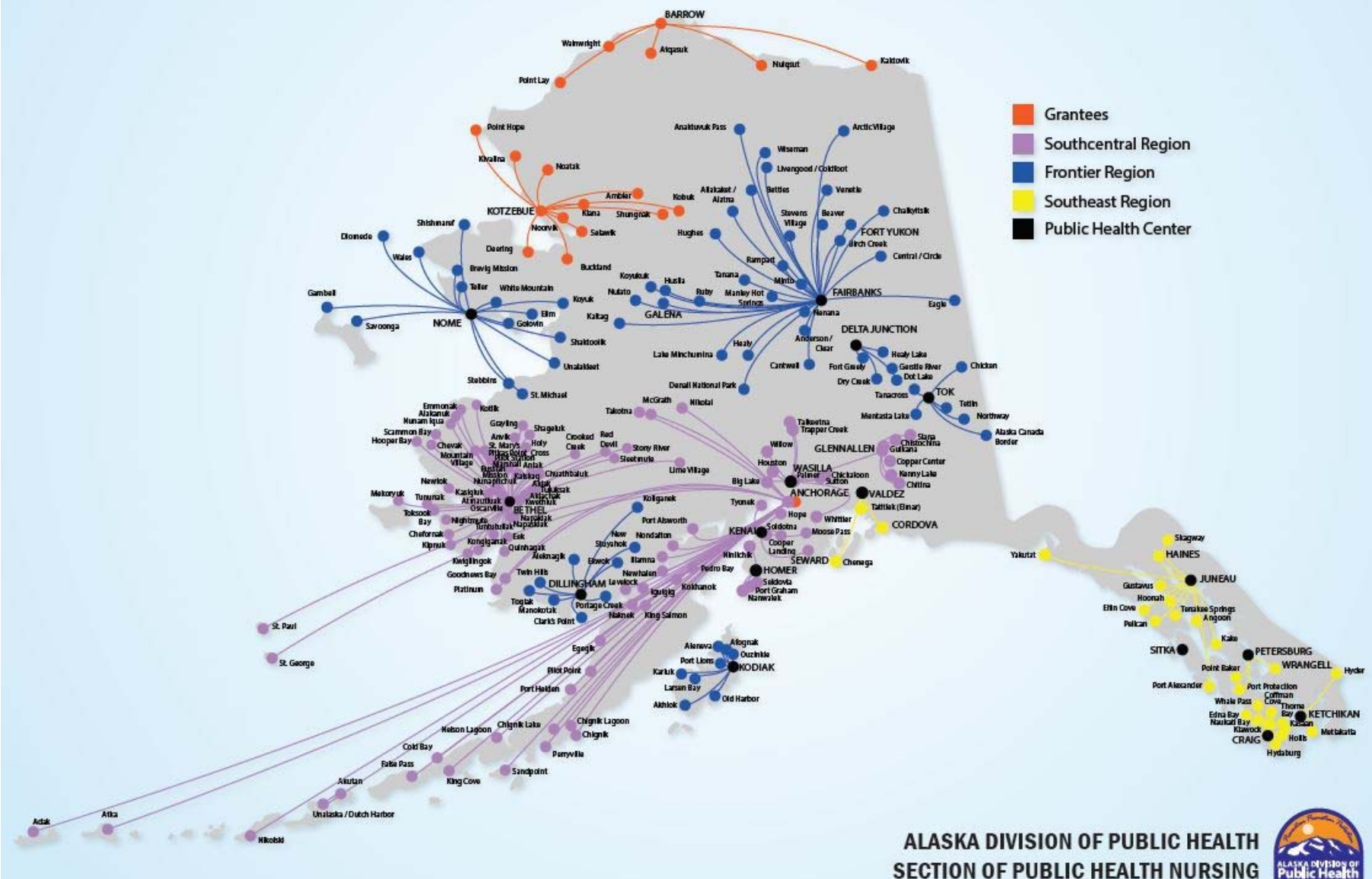
On Track to Reach Target



Not on Track to Reach Target

# PUBLIC HEALTH CENTERS AND ITINERANT PHN SERVICES MAP

## LIVING LOCALLY, WORKING GLOBALLY – JULY 2016



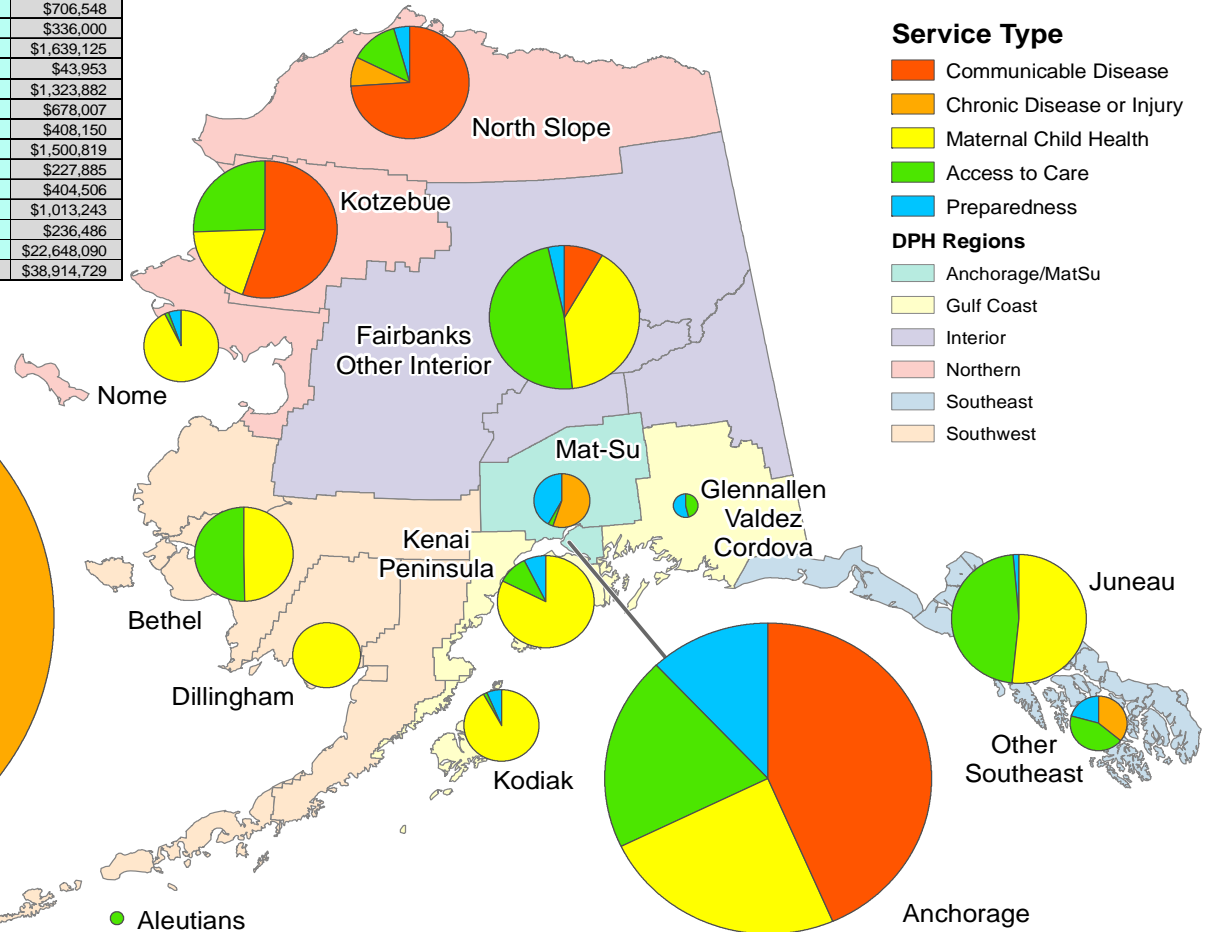
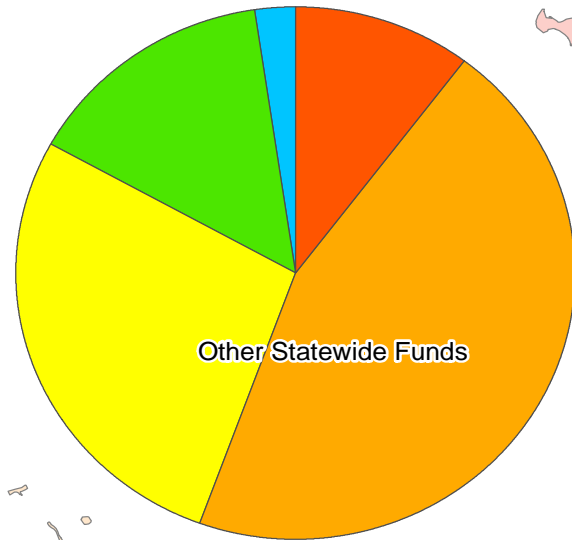
ALASKA DIVISION OF PUBLIC HEALTH  
SECTION OF PUBLIC HEALTH NURSING



# Division of Public Health - Grants and Contracts for FY2017

Service Areas	Communicable Disease	Chronic Disease or Injury	Maternal Child Health	Access to Care	Preparedness	Total
Aleutians				\$12,718		\$12,718
Anchorage	\$3,366,800		\$1,879,800	\$1,559,122	\$929,595	\$7,735,317
Bethel			\$351,000	\$355,548		\$706,548
Dillingham			\$336,000			\$336,000
Fairbanks / Other Interior	\$137,205		\$654,000	\$789,532	\$58,388	\$1,639,125
Glennallen / Valdez / Cordova				\$20,112	\$23,841	\$43,953
Juneau			\$683,000	\$622,179	\$18,703	\$1,323,882
Kenai Peninsula			\$559,000	\$68,905	\$50,102	\$678,007
Kodiak			\$375,000	\$6,700	\$26,450	\$408,150
Kotzebue	\$826,300		\$291,000	\$383,519		\$1,500,819
Mat-Su		\$126,000		\$6,235	\$95,650	\$227,885
Nome			\$374,986	\$6,700	\$22,820	\$404,506
North Slope	\$749,900	\$85,000		\$133,352	\$44,991	\$1,013,243
Other Southeast		\$85,000		\$102,937	\$48,549	\$236,486
Statewide	\$2,334,684	\$10,246,431	\$6,227,186	\$3,308,896	\$530,893	\$22,648,090
Total	\$7,414,889	\$10,542,431	\$11,730,972	\$7,376,455	\$1,849,982	\$38,914,729

Communicable Disease
HIV/STD
Immunization
Infectious Disease Control
Nursing
Chronic Disease or Injury
Cancer Prevention
Health Analytics & Evaluation
Health Communication
Heart Disease and Stroke Prevention
Injury Prevention
Obesity Prevention
School Health
Tobacco Use Prevention
Maternal Child Health
Child & Adolescent Health
Family Planning
Health Analytics & Evaluation
HIV/STD
Injury Prevention
Peri-natal Health
School Health
Tobacco Use Prevention
Access to Care
Anchorage Project Access
Cancer Prevention
Child & Adolescent Health
Death Investigation
EMS
Health Analytics & Evaluation
Hospital Improvement
Nursing
Rural Health
Senior Access
Preparedness
Health Emergency Response
Hospital Preparedness Program



Source: Alaska Department of Health and Social Services, Grants and Contracts Section as of February 6, 2017

Rev: 1/10/2017



# The Web of Risk Factors and Chronic Conditions

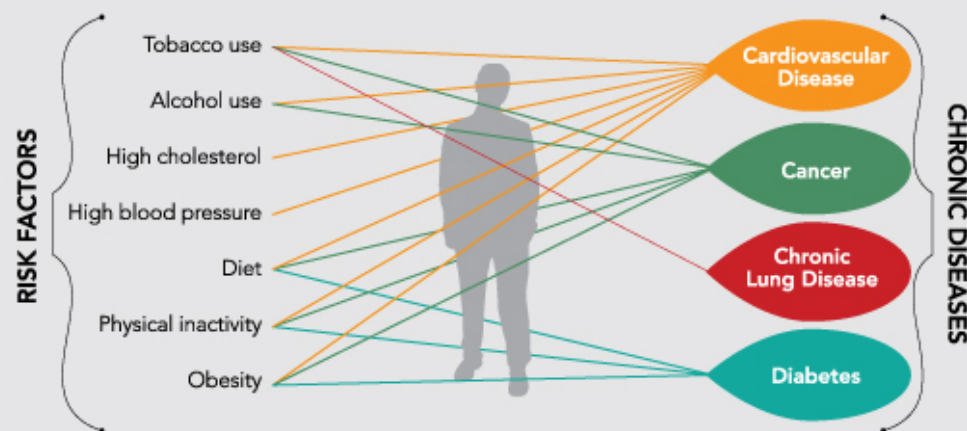
## The Problem

More than half of Alaska adults report that they have one or more of the following: obesity, inactivity, smoking, history of diabetes, history of cardiovascular disease, or cancer. But how many are dealing with more than one?<sup>1</sup>



People with multiple chronic conditions have poorer health than those with a single chronic condition—including poorer day-to-day functioning.<sup>2</sup>

## The Whole Person: The Web of Chronic Disease<sup>4</sup>



Among Alaska Adults with Cardiovascular Disease<sup>1</sup>

- 23% smoke
- 35% are inactive
- 42% are obese
- 25% have diabetes

Among Alaska Adults with Cancer<sup>1</sup>

- 20% smoke
- 30% are inactive
- 29% are obese
- 16% have a history of cardiovascular disease

Among Alaska Adults with Diabetes<sup>1</sup>

- 19% smoke
- 30% are inactive
- 59% are obese
- 19% have a history of cardiovascular disease

## The Cost

To the Nation

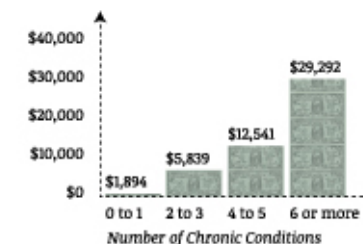


66 cents of each dollar spent on healthcare treats the 25% of Americans with one or more chronic conditions.<sup>3</sup>

When someone develops a number of chronic conditions, it is much more likely that he or she will spend more time in the hospital, will visit the emergency department more often and will incur significantly more in healthcare costs.<sup>3</sup>

## In Alaska

Annual Per Capita Cost, by Number of Chronic Conditions, Alaska Medicare Beneficiaries, 2011 CMS<sup>3</sup>



## The Web of Risk Factors and Chronic Conditions

### The Solution: Key Factors for Healthier Alaskans

**4** healthy lifestyle choices:  
never smoking,  
maintaining a healthy weight,  
regular physical activity  
and a healthy diet,  
**reduce the risk of  
developing the most  
common and deadly  
chronic diseases by as  
much as 80%.<sup>5</sup>**

**Public health + healthcare professionals +  
communities must work together to help  
make healthy choices easy choices.**

#### What Can I Do to Help?



**Public Health Professionals:**  
Educate communities about chronic disease and promote positive changes in the environment that help people stay healthy and prevent chronic conditions.



**Health Care Providers:**  
Provide patient-centered care from a multi-disciplinary team.



**Individuals with Multiple Chronic Conditions:**  
Learn effective strategies for managing your health.  
Visit Living Well Alaska,  
[www.dhss.alaska.gov/dph/Chronic/Pages/SelfManagement/default.aspx](http://www.dhss.alaska.gov/dph/Chronic/Pages/SelfManagement/default.aspx),  
for more information.