# Assessing the Oregon Health Care Workforce by Workforce Regions in a System of Universal Health Insurance

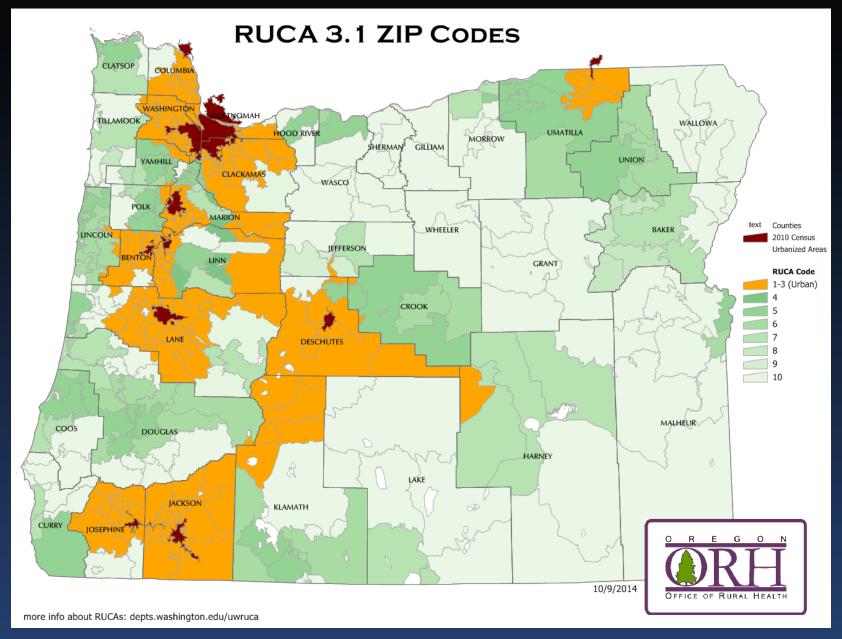
**Terry Hammond PhD MPH** 

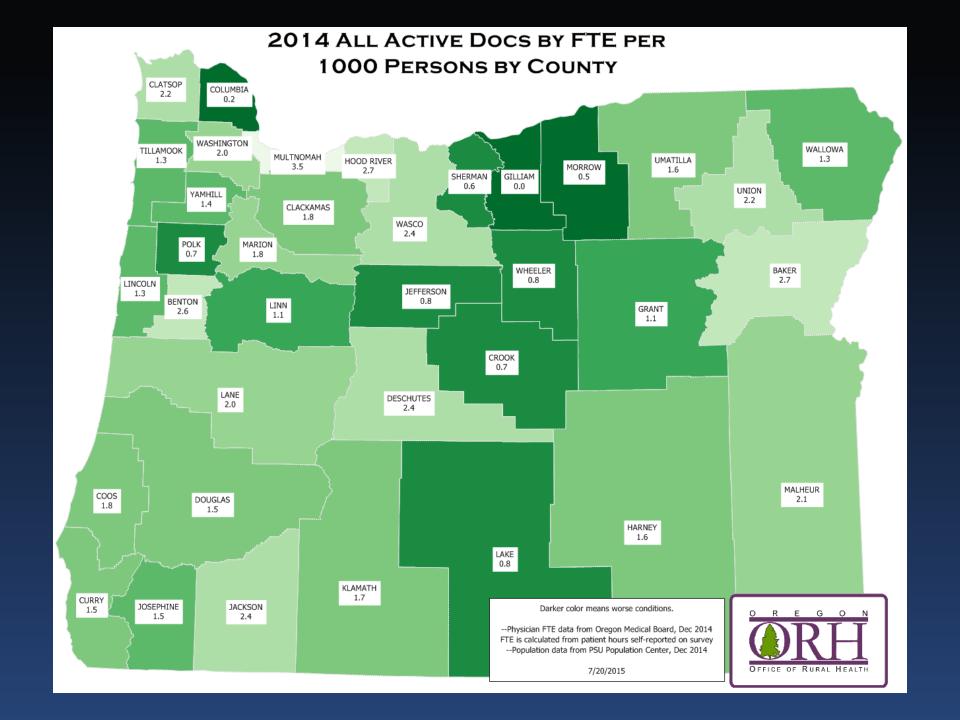
National Forum of State Nursing Workforce Centers Conference

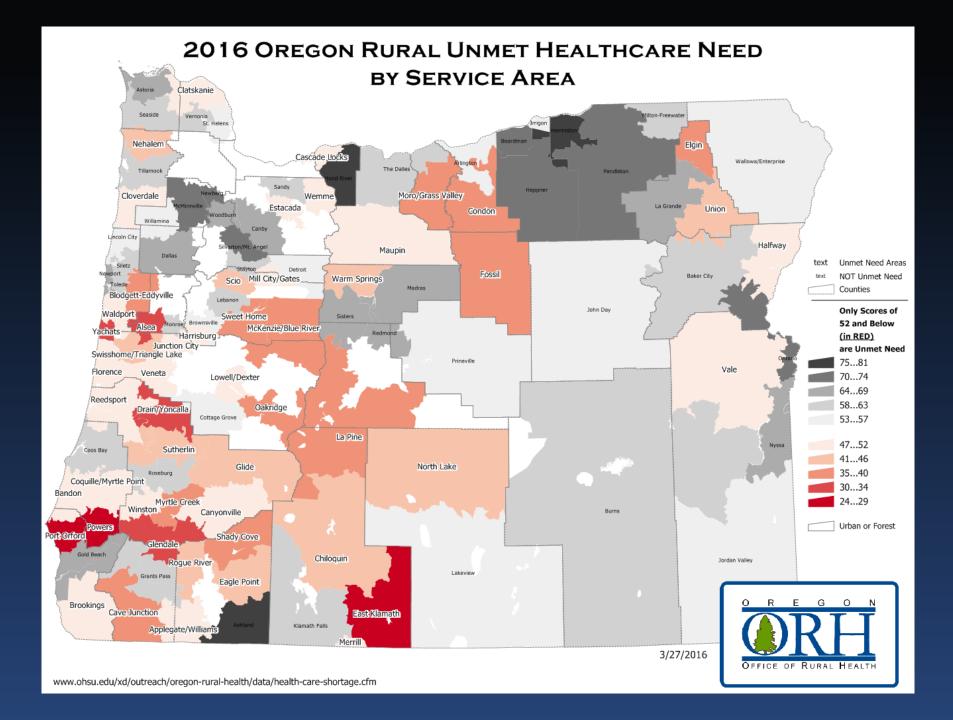
The Nursing Workforce and Health Reform:
Trends and Opportunities in a New Political Era

June 8, 2017 Denver, Colorado







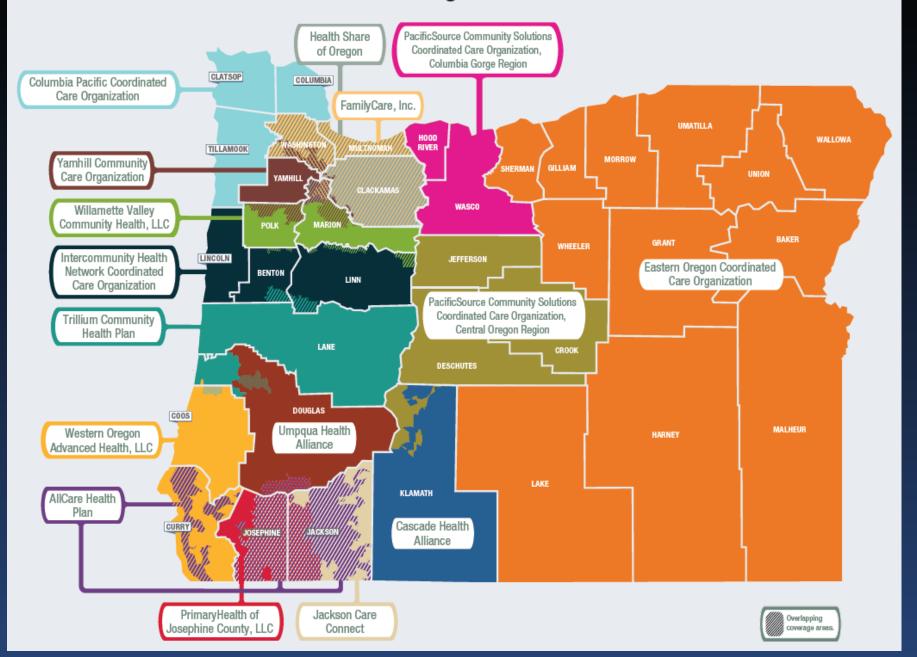


### "Rational" Medical Market Areas

- Health Professional Shortage Area
- Medically Underserved Area
- Critical Access Hospitals

- Areas of Unmet Health Care Need
- Governor's Certified Shortage Areas

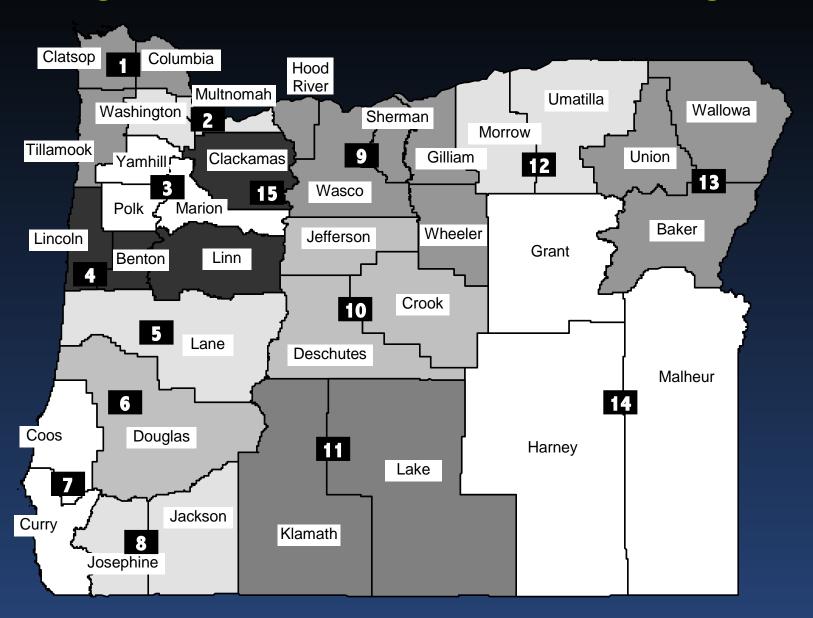
#### **Coordinated Care Organization Service Areas**



## **Health System Transformation**

- Address social determinants of health.
- Integrate physical, behavioral, and oral health care services.
- Address cultural competence, social stigma, and equitable access.
- Embrace value-based payment reforms.
- Reflect local community and public needs.

### **Oregon Counties and 15 Workforce Regions**



# Of Universal Health Insurance Presuppositions

#### <u>Add +</u>

- Central Trust Fund
- Risk Solidarity
- Income Solidarity
- Autonomous Regional Funds

#### <u>Subtract</u> –

- Monopsony Power
- Political Interference
- Standard Benefit Package

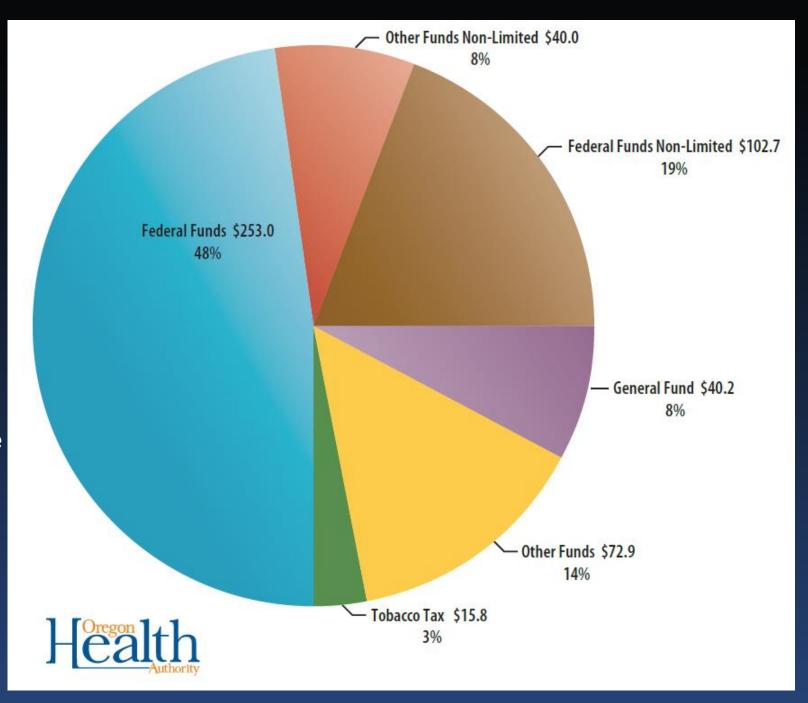
### Oregon Health Authority

Public Health Division

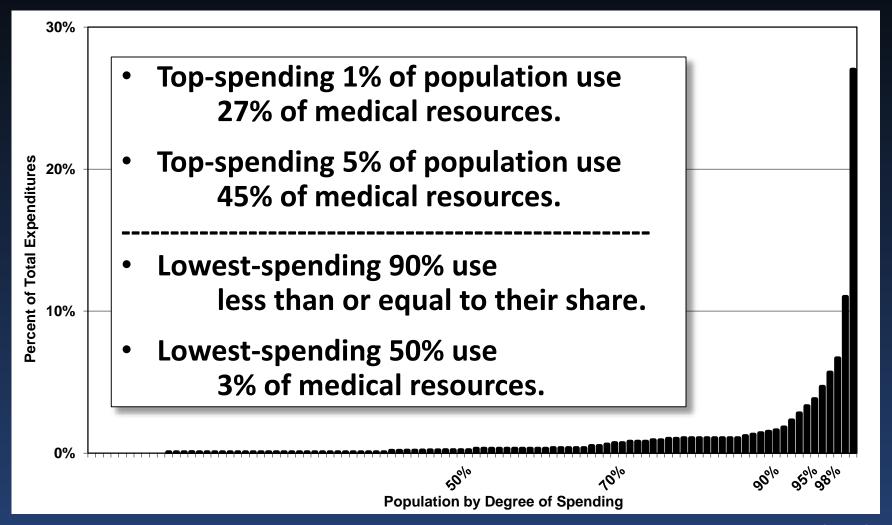
2013-2015

budget by fund type

\$524.6 million total funding



# Distribution of Personal Healthcare Expenditures, 1996



# 2016 Oregon Rural and Frontier Health Facility Listening Tour

- Rapidly changing regulations, and reliance on impermanent grant or state funds add staff work with no reimbursement.
- Frustration with electronic health record limitations and prohibitive costs.
- Referrals and patient health preferences often do not align with managed care organization provider networks.
- Contested coverage approval can obstruct timely treatment and add to staff burden.

## Data / Human Networks

It is the population experience of disease, in actual societies, that is the subject of our investigation. Epidemiologic theory reminds us that our work has a context, and that this context is human society.

Krieger & Zierler (1999)

### **Evidence-Based Practice**

Recommendations to perform or not perform a preventive service can be influenced by multiple factors ...

Recommendations in this report are influenced largely by only one factor, scientific evidence, recognizing that the other factors often need to be considered.

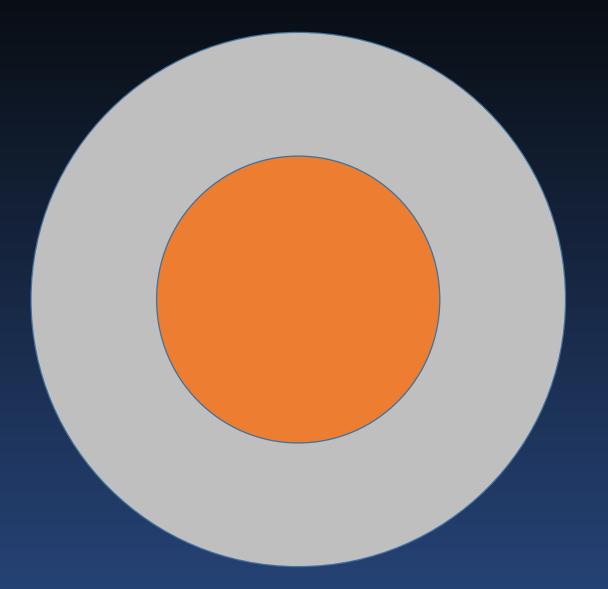
U.S. Preventive Services Task Force (1996)

## **Effective Concepts**

Certainty of meaning amounts only to various resting places in a process of improving that certainty by substantive debate.

A.L. Stinchcombe (2001)

# **Knowledge Core-Periphery**



# Clinical Governance / Guidelines

Regulation of health and social care practice through evidence-based guidelines erodes the very basis of professionalism by removing the opportunity for professional judgment in decision making regarding individual service users.

Rose & Gidman (2010)

## **Aligning Health Measurement**

Over the past 20 years as evidence grew about defects in care, there was a sense of alarm ...

As a result, we began a festival of measurement, an almost measurement mania, where we began to believe that the solution to performance was transparency and measurement.

I'm a complete fan of transparency, but we've overshot.

Now, the number of metrics exceeds the ability of any reasonable human being to consume usefully. And, there has been insufficient diligence about the alignment and harmonization of measures.

## **Metrics That Matter**

- 1. Proliferation of metrics creates confusion.
- 2. Best measures drive action, linked to interventions.
- 3. Greatest opportunities to improve population health lie outside the traditional health sector; good measures catalyze action among those sectors.
- 4. However, indicators work best in multiple sectors when they reflect collective needs and priorities determined by community stakeholders, measured at a human scale.
- 5. The metrics realm requires a shift from "data first" to "purpose first."

– IOM (2016), Metrics that matter for population health action: Workshop summary

# State of Our Health 2015: Key Health Indicators for Oregonians



# Baker County Snapshot 16,325 Population Estimate 16,325 Life Expectancy at Birth male 76 Life Expectancy at Birth female 81 Years of Potential Life Lost (YPLL) age-adjusted per 100,000 7056 Low Birth Weight Rate per 1,000 78.3 Chronic Absenteeism % 22.1

Indicator	Year(s)	Baker	Oregon
Population Estimate (Certified)	2014	16,325	3,962,710
Socioeconomic Status/Social Determinants			
Income Inequality: Gini Coefficients	2009-2013	0.45	0.45
Minority income as a % of White income	2009-2013	47.5	57.2
Children in Poverty %	2013	24.7	21.6
	2012	29.6	22.7
Violent Crime per 100,000	2010-2012	21	249
	2009-2011	33	251
Median Household Income	2013	42,200	50,228
	2012	37,025	49,090
Unemployment %	2014	83	6.9
	2013	92	7.9
Foreclosure Filings ratio to total homes owned	2015 (January)	1:8806	1:1514
Home Ownership %	2009-2013	67.0	62.0
	2000	70.1	64.3
High Housing Costs %	2009-2013	31	40
	2007-2011	31	39
Homelessness count	2011	6	22,116
	2010	4	19,208
High School Graduates %	2009-2013	89.4	88.6
College Degree %	2009-2013	20.9	30.1
Environmental Access			
Fluoridated Water %	2012	N/A	22.6
	2006	0.0	22.2
Access to Exercise Opportunities %	2010 & 2013	70	89
	2010 & 2012	74	81

Indicator Year(s) Baker Oregon  Immunized 2-Year-Clids %  Immunized 2-	Indicator	Year(s) Ba	aker Oregon						
Indicator		Indicator		Year(s)	Baker	Oregon	1		
Supermarkers   Willing within 1/2 mile   Immunized Seniors crude %   Cancer age adjusted new cases per 100,000   2007-2011   420.2   452.8   442.8	Limited Access to Healthy Foods %	Immunized 2-Year-Olds %		2012					
Cancer age-adjusted new cases per 100,000   2005-2009   417.2   46.44	Fast Food: % living within 1/2 mile		Indicator						
Totacco Outsets count	Supermarkets: % living within 1/2 mile	Immunized Seniors crude %	Cancer age-adjuste	ed new cases pe	000,000 1				
Environmental Health Riesarm Dealer Licenses count Town & City Wakability: intersections per mile within urban growth boundaries Self- Assessment Cood General Health age-adjusted % Cood Mental Health age-adjusted % Cood Mental Health age-adjusted % Coverweight age-adjusted % Coverweight age-adjusted % Coverweight age-adjusted % Current Smokers age-adjusted % Current Smo	Alcohol Outlets count						2013	40	28.4
Environmental Health   Common   Commo		Critical Access Hospital (CAH) Beds	Teen Pregnancy pe	er 1,000			2010	35.2	38.6
Air Pollution days: The average daily in growth boundaries or micrograms per (PMZ-S) in a county  Acute Petition at City Walkability: Intersections per micrograms per (PMZ-S) in a county  Acute Petition accounty  Acute Petition accounty  Nitrate Risk in at least One Public Walkability interses 6 year count  Nitrate Risk in at least One Public Walkability interses 6 year count  Nitrate Risk in at least One Public Walkability interses 6 year count  Nitrate Risk in at least One Public Walkability interses 6 year count  Nitrate Risk in at least One Public Walkability Rate per 1,000  Additional Major Health Indical Chronic Absenteelsm %  Overweight age-adjusted %  Obese age-adjusted %  Obese age-adjusted %  Current Smokers age-adjusted %  Current Smokers age-adjusted %  Adults in OHP age-adjusted %  Animmography within the past 2 years (women 50-74) age-adjusted %  Ammmography within the past 2 years (women 50-74) age-adjusted %  Ammmography within the past 3 years (women 50-74) age-adjusted %  Arthritis age-adjusted %  Arthritis age-adjusted %  Arthritis age-adjusted %  Persuant Vomen Served by Vin C %  Ashma age-adjusted %  Arthritis age-adjusted %  Dentists ratio to popular  Dentists ratio to popular because tendent age-adjusted %  Influenza count  Amminogramphy with the post 2 years (women 50-74) age-adjusted %  Children with Developmental 2012 2 4 4 13501  Arthritis age-adjusted %  Children with Developmental 2013 2 2 5,599  Arthritis age-adjusted %  Children with Developmental 2013 2 3 5,599  Arthritis age-adjusted %  Children with Developmental 2012 2 5,5191  Children with Developmental 2012 2 5,5191	(excluding age-restricted establishmen	Environmental Health	Life Expectancy at Birth male						
Town & City Wakability Intersections per mile within urban growth boundaries   Town & City Wakability Intersections per mile within urban growth boundaries   Town & City Wakability Intersection   Town & City Wakability I	Firearm Dealer Licenses count								
Activity age-adjusted %   Current Smokers age-adjusted %   Car Crash Deaths count   Car Death Dea			Life Expectancy at	Birth female					
Cheever   Chee	-		Infant Mortality Rai	te per 1,000					
Additional Major Health Indical Chronic Absenteels m & Overweight age-adjusted % Overweight age-adjusted % Overweight age-adjusted % Obese age-adjusted % Ob	Self-Assessment			p,					
Additional Major Health Indical Chronic Absenteelsm %   2004-2010   10,322   6,076   6,000	Good General Health age-adjusted %		Low Birth Weight R	ate per 1,000					
Chronic Absenteeism %   age-adjusted per 100,000   2008-2010   10,322   6,076	Cond Dhurical Health ago adjusted M		Years of Potential L	Ife Lost (YPLL)					
Overweight age-adjusted % Inadequate Social Support % Health Service Access Adults with Any Health Insurance age-adjusted % Physical Activity age-adjusted % Eat Recommended Amount of Prul Vegetables age-adjusted % Current Smokers age-adjusted % Pregnant Women Served by WIC % Binge Drinking age-adjusted % of repair with a cervity age-adjusted % Binge Drinking age-adjusted % of repair (activity age-a	GOOD Physical Realth age-adjusted %						2008-2010	10,322	6,076
Inadequate Social Support %  Health Service Access Adults with Any Health Insurance age-adjusted %  Physical Activity age-adjusted %  Eat Recommended Amount of Prui Vegetables age-adjusted %  Current Smokers age-adjusted %  Current Smokers age-adjusted %  Pregnant Women Served by WIC %  Mammography within the past 2 years (women So-74) age-adjusted %  Pap Smear within the past 3 years (wom with a cervix) age-adjusted %  Arthritis age-adjusted %  Sigmoldoscopy/Colonoscopy Current of screening (So-75 years old) crude %  Preventable Hospital Stays per 1,000  (Ambulatory Care Sensitive Conditions)  Perturn Smokers age-adjusted %  Asthma age-adjusted %  Asthma age-adjusted %  Ferturn Deaths count  Frearm Deaths count  Car Crash Deaths count  Work-Related Deaths count  Work-Related Deaths count  Work-Related Deaths count  Perturn Death scount  Car Crash Deaths count  Work-Related Deaths count  Work-Related Deaths count  Perturn Death scount  Car Crash Deaths count  Work-Related Deaths count  Work-Related Deaths count  Perturn Death scount  Work-Related Deaths count  North-Related Deaths count  Perturn Death scount  Car Crash Deaths count  Work-Related Deaths count  Work-Related Deaths count  Perturn Death scount  Perturn Death scount  Perturn Death scount  North Related Deaths count  Perturn Death scount  North Related Deaths count  Perturn Death scount  North Related Deaths count  North Related Deaths count  Perturn Death scount  North Related Deaths count  North Related Deaths count  North Related Deaths Count  North Related Death scount  North Related De	Good Mental Health age-adjusted %	Outpreplate ago adjusted %	HIV new cases					_	
Designation	3 ,	Overweight ageraujusieu w	THY THE WASCA					_	
Adults with Any Health Insurance age-adjusted % Eat Recommended Amount of Fruit Vegetables age-adjusted % Current Smokers age-adjusted % Car Crashe count Car Crash Deaths count  Car Crash Deaths count  Work-Related Deaths count  Pertussis count  Arthritis age-adjusted %  Preventable Hospital Stays per 1,000 (Ambulatory Care Sensitive Conditions)  Primary Care Physicians ratio to populat  Stroke age-adjusted %  Mental Health Providers ratio to populat  Could Not See Doctor Due to Cost %  High Blood Pressure age-adjusted 9  Indicator age adjusted 9  Car Crash Deaths count  Work-Related Deaths count  Work-Related Deaths count  Death Stays per 1,000 (Ambulatory Care Sensitive Conditions)  Ashma age-adjusted %  Car Crash Deaths count  Work-Related Deaths count  Death Stays per 1,000 (Ambulatory Care Sensitive Conditions)  Ashma age-adjusted %  Car Crash Deaths count  Work-Related Deaths count  Death Stays per 1,000 (Ambulatory Care Sensitive Conditions)  Ashma age-adjusted %  Car Crash Deaths count  Death Stays per 1,000 (Ambulatory Care Sensitive Conditions)  Ashma age-adjusted %  Car Crash Deaths count  Death Stays per 1,000 (Ambulatory Care Sensitive Conditions)  Ashma age-adjusted %  Car Crash Deaths count  Death Stays per 1,000 (Ambulatory Care Sensitive Conditions)  Ashma age-adjusted %  Car C		Obese age-adjusted %	Suitride Deaths and	-adjusted rate r	er 100 000		2011-2013	Mal,MoJJJJn,Wa)	16.9
Eat Recommended Amount of Fruil Vegetables age-adjusted %  Current Smokers age-adjusted %  Current Smokers age-adjusted %  Current Smokers age-adjusted %  Current Smokers age-adjusted %  Car Crashes count  Car Crashes count  Car Crashes count  Car Crash Deaths count  2012  246  49,798  Car Crash Deaths count  2012  246  29,798  Car Crash Deaths count  2012  4336  Work-Related Deaths count  2012  4336  Work-Related Deaths count  2013  2013  2313		Physical Activity ago adjusted 66	Suicide Delicits age	. aujustea tate p			2008-2010		16.0
Adults in OHP age-adjusted % Current Smokers age-adjusted % Pregnant Women Served by WIC % Binge Drinking age-adjusted % of r Mammography within the past 2 years (women 50-74) age-adjusted % Pap Smear within the past 3 years (wom with a cervity) age-adjusted % Pap Smear within the past 3 years (wom with a cervity) age-adjusted % Arthritis age-adjusted % Preventable Hospital Stays per 1,000 (Ambulatory Care Physicians ratio to populat Dentitist ratio to population  Mental Health Providers ratio to populat Could Not See Doctor Due to Cost % High Blood Pressure age-adjusted % High Blood Pressure age-adjusted 9 High Blood Pressure age-adjusted 9 High Blood Pressure age-adjusted 9 Car Crashes count 2013 2 235.6 25.191			Firearm Deaths co.	int				_	
Adults in CHP age-adjusted %  Current Smokers age-adjusted %  Pregnant Women Served by WIC %  Binge Drinking age-adjusted % of r  Mammography within the past 2 years (women 50-74) age-adjusted %  Pap Smear within the past 3 years (wom with a cervix) age-adjusted %  Pap Smear within the past 3 years (wom with a cervix) age-adjusted %  Arthritis age-adjusted %  Preventable Hospital Stays per 1,000 (Ambulatory Care Physicians ratio to populat  Dentists ratio to population  Mental Health Providers ratio to populat  Car Crashes count  2013 2 313  2246 49,798  Car Crash Deaths count  2012 4 336  Work-Related Deaths count  2013 0 488  Pertussis count  Pertussis count  2013 0 88  Salmonella count  2013 3 375  Salmonella count  2012 2 404  Chilamydia count  2013 29 14,265  Preventable Hospital Stays per 1,000 (Ambulatory Care Physicians ratio to populat  Stroke age-adjusted %  Signoloscopy/Colonoscopy  Current Smokers age-adjusted %  Car Crash Deaths count  2013 2 313  Car Crash Deaths count  2013 0 495  Pertussis count  Pertussis count  2013 0 88  Salmonella count  2013 3 375  Children with Developmental  Disabilities count  2013 2 49,798  43,501  Car Crash Deaths count  2014 336  Add 336  Car Crash Deaths count  2015 4 336  Car Crash Deaths count  2016 4 336  Add 336  Pertussis count  Pertussis count  2017 0 47  Pertussis count  2018 0 88  Salmonella count  2019 2 404  Children with Developmental  Disabilities count  2010 2 2 5,819	age-aujusteu 16		Theath Beating co.						
Pregnant Women Served by WIC %  Mammography Within the past 2 years (women 50-74) age-adjusted % of r Binge Drinking age-	Adults in OHP age-adjusted %		Car Crashes count						
Pregrant women Served by WiC %  Binge Drinking age-adjusted % of r  Mammography within the past 2 years (women 50-74) age-adjusted % of r  Pag Smear within the past 3 years (wom with a cervity age-adjusted %  Arthritis age-adjusted %  Arthritis age-adjusted %  Asthma age-adjusted %  Influenza count  Salmonella count  Salmonella count  Dentists ratio to population  Mental Health Providers ratio to populat  Could Not See Doctor Due to Cost %  High Blood Pressure age-adjusted 9  Car Crash Deaths count  2012  4 336  Work-Related Deaths count  2013  0 485  Pertussis count  2013  0 84  2013  3 375  Salmonella count  2013  2013  3 375  Children with Developmental  Disabilities count  2013  2013  212  404  Angina age-adjusted %  Methamphetamine-Related Deaths count  2013  2013  213  25.6  26  Children with Developmental  Disabilities count  Children with Developmental  Disabilities count  2012  212  325  327  438  448  480  Asthma age-adjusted %  Influenza count  2013  3 375  Car Crash Deaths count  2012  4 336  448  Work-Related Deaths count  2013  0 485  Asthma age-adjusted %  Influenza count  2013  3 375  Car Crash Deaths count  2013  0 485  Asthma age-adjusted %  Influenza count  2013  3 375  Children with Developmental  Disabilities count  2014  2015  2017  4 336  4 336  Add Asthma age-adjusted Search of the search of t		Current Smokers age-adjusted %							
Mammography within the past 2 years (women 50-74) age-adjusted % Binge Drinking age-adjusted % of f Pap Smear within the past 3 years (women 50-74) age-adjusted % Binge Drinking age-adjusted % of f Pertussis count 2011 0 59 90 485 with a cervity age-adjusted % Arthritis age-adjusted % Pertussis count 2012 0 918 485 within a cervity age-adjusted % Arthritis age-adjusted % Influenza count 2013 0 88 100 2012 0 67 90 100 100 100 100 100 100 100 100 100	Pregnant Women Served by WIC %	Binge Drinking age-adjusted % of r	Car Crash Deaths o	ount				_	
Region   Stroke age-adjusted %   Stroke age-adjusted		3 3 3 3		tur encont			2012	0	47
with a cervity age-adjusted %  Arthritis age-adjusted %  Arthritis age-adjusted %  Asthma age-adjusted %  Asthma age-adjusted %  Influenza count  Influenza count  2012  0 911  2013  0 84  2012  0 67  Preventable Hospital Stays per 1,000  (Ambulatory Care Sensitive Conditions)  Primary Care Physicians ratio to populat  Angina age-adjusted %  Angina age-adjusted %  Chiamydia count  2013  2013  2013  2013  2014  2015  2016  Angina age-adjusted %  Chiamydia count  Stroke age-adjusted %  Samonelia count  2017  2018  2019		Binge Drinking age-adjusted % of f	WORK-Related Deat	IIS COUITE				_	
Sigmoidoscopy/Colonoscopy Current o screening (50-75 years old) crude %  Preventable Hospital Stays per 1,000 (Ambulatory Care Sensitive Conditions)  Primary Care Physicians ratio to populat  Dentists ratio to population  Mental Health Providers ratio to popula  Could Not See Doctor Due to Cost %  High Blood Pressure age-adjusted 9  Influenza count  Salmonella count  Salmonella count  Chiamydia count  Simokeless Tobacco Use Among 11th Grade Males %  Methamphetamine-Related Deaths count  2013  203  3 375  446  Chiamydia count  Simokeless Tobacco Use Among 11th Grade Males %  Methamphetamine-Related Deaths count  2013  215  226  327  328  327  446  329  446  32012  44 13,501  44 13,501  45 2013  46 2013  47 2013  48 2013  48 2013  48 2013  49 2013  40		Authorities was and bestead file	Pertussis count					_	
screening (50-75 years old) crude % Ashma age-adjusted % Influenza count 2012 0 67 Preventable Hospital Stays per 1,000 (Ambulatory Care Sensitive Conditions) Heart Attack age-adjusted % Salmonella count 2013 3 375 Primary Care Physicians ratio to populat Angina age-adjusted % Chiamydia count 2013 29 14,265  Dentitists ratio to population Stroke age-adjusted % Smokeless Tobacco Use Among 11th Grade Males % 2013 25.6 9.6  Mental Health Providers ratio to popula Could Not See Doctor Due to Cost % High Blood Pressure age-adjusted 9 Children with Developmental 2013 23 5,625 Inatequate Reportal Care 66		Arthitis age-adjusted %							
Ambulatory Care Sensitive Conditions   Heart Attack age-adjusted %   Salmonella count   2012   2   404		Asthma age-adjusted %	Influenza count					_	
Ambulatory Care Sensitive Conditions   Angina age-adjusted %   Chlamydia count   2012   2   404	Preventable Hospital Stays per 1.000	Lieure Attack and adjusted M	February III annual				2013	3	375
Primary Care Physicians ratio to population  Stroke age-adjusted %  Smokeless Tobacco Use Among 11th Grade Males %  Mental Health Providers ratio to popula  Could Not See Doctor Due to Cost %  High Blood Pressure age-adjusted of Children with Developmental Disabilities count  Children with Developmental Disabilities count  Disabilities count  Children with Developmental Disabilities count  Disabilities count  Children with Developmental Disabilities count  2012  44 13,501  58 9.6  9.6  9.6  Children with Developmental Disabilities count  Children with Developmental Disabilities count  2012  22 5,191		neart Attack age-adjusted %	Salmonella count				2012	2	404
Dentitists ratio to population  Stroke age-adjusted %  Smokeless Tobacco Use Among 11th Grade Males %  Mental Health Providers ratio to popula Could Not See Doctor Due to Cost %  High Blood Pressure age-adjusted 9  Children with Developmental Disabilities count  Children with Developmental Disabilities count  2012  44 13,301  45 13,301  46 13,301  47 123  48 13,301  49 15,301  49 15,301  40 123  40 13,301  40 123  41 13,301  41 13,301  42 13,301  43 13,301  44 13,301  45 13,301  46 13,301  47 123  48 13,301  49 15 123  49 15 123  40 123	Primary Care Physicians ratio to nonulat	Angina age-adjusted %	Chlamydla count						
Dentists ratio to population  Grade Males %  Grade Males %  Methamphetamine-Related Deaths count  Diabetes age-adjusted %  Methamphetamine-Related Deaths count  Diabetes age-adjusted %  Methamphetamine-Related Deaths count  Diabetes age-adjusted %  High Blood Pressure age-adjusted 9  Children with Developmental  Disabilities count  Disabilities	Time y care i try acuta tuto to popular	Stroke age adjurted M					2012	44	13,501
Methamphetamine-Related Deaths count 2012 1 93 Could Not See Doctor Due to Cost % High Blood Pressure age-adjusted Children with Developmental 2013 23 5,625 Disabilities count 2012 2 5,191	Dentists ratio to population	scroke age-adjusted 46		use Among 11	th		2013	25.6	9.6
Could Not See Doctor Due to Cost % High Blood Pressure age-adjusted 9 Children with Developmental Disabilities count 2012 22 5,191	Montal Month Drawldow ratio to nor da	Diabetes age-adjusted %		Deleted Don't			2013		123
Ingri blood Pleasaire age-adjusted Children with Developmental 2013 23 5,625  Disabilities count 2012 22 5,191			Methamphetamine	e-weiated Death	scount		2012	1	93
	Could Not See DOCION Date to COST %	High Blood Pressure age-adjusted 9							
	Inadequate Prenatal Care %	High Blood Cholesterol age-adjuste					2012	22	5,191

Oregon Workforce Regions 2016			Principal Practitioners FTE/1000 Population			Practitioners Ratio per MD					
No.	Counties	Population	Pop. Percent	All MD	Phys. Asst	Reg. Nurse	Nurse Pract.	PAs	RNs	NPs	Hospital Beds per 1000
0	Oregon All	4,076,350	100%	2.0	0.3	4.7	0.4	0.13	2.35	0.20	1.6
2	Mult./Wash.	1,374,265	34%	2.7	0.3	6.2	0.5	0.12	2.28	0.19	2.0
3	Marion+2	518,670	13%	1.4	0.2	4.1	0.3	0.12	2.88	0.22	1.2
15	Clackamas	404,980	10%	1.7	0.2	3.3	0.3	0.10	1.98	0.17	1.4
5	Lane	365,940	9%	1.9	0.3	4.4	0.4	0.16	2.35	0.20	1.6
8	Jack./Jos.	298,440	7%	2.0	0.3	4.9	0.6	0.13	2.47	0.29	2.0
4	Benton+2	261,370	6%	1.5	0.3	3.7	0.3	0.18	2.43	0.17	1.2
10	Deschutes+2	221,005	5%	2.1	0.5	4.8	0.4	0.23	2.34	0.19	1.5
1	Columbia+2	114,940	2.8%	1.0	0.2	2.3	0.3	0.18	2.35	0.35	0.7
6	Douglas	110,395	2.7%	1.5	0.2	4.0	0.4	0.16	2.74	0.31	1.3
12	Umatilla+1	91,625	2.2%	1.3	0.2	2.9	0.3	0.12	2.16	0.20	0.8
7	Coos/Curry	85,790	2.1%	1.6	0.1	4.4	0.4	0.08	2.87	0.27	2.2
11	Klamath+1	75,425	1.9%	1.4	0.2	3.2	0.3	0.14	2.32	0.24	1.6
9	Wasco+4	56,675	1.4%	2.0	0.3	4.1	0.4	0.15	2.07	0.20	1.3
13	Baker+2	50,395	1.2%	1.9	0.2	3.5	0.4	0.10	1.83	0.22	1.5
14	Harney+2	46,435	1.1%	1.6	0.4	3.6	0.4	0.22	2.20	0.23	1.8

### Oregon Center for Nursing 2016

http://oregoncenterfornursing.org/

#### LPN Workforce

Oregon's LPN workforce has experienced growth in recent years. In 2014, an estimated 3,737 LPNs worked in Oregon.

LPNs work in all regions of Oregon though, in 2014, 36% worked in the Portland Metro region while an additional 8% worked in the Clackamas region. The U.S. Bureau of Labor Statistics reported the median pay for LPNs in 2014 as \$42,490. (U.S. Bureau of Labor Statistics, 2016) The Oregon Employment Department reports LPN wages in Oregon are higher than the national average with the 2015 median salary of more than \$48,000. Salaries in Oregon fluctuate by region with LPNs in the Portland Metro area earning significantly higher wages than LPNs in other regions such as Eastern Oregon.

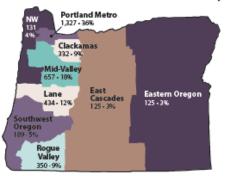
#### Licensed Practical Nurses In Oregon



Source: Oregon Health Authority, 2014

Additionally, national reports show female LPNs earn approximately \$5,000 less per year than their male colleagues. (National Council of State Boards of Nursing, 2016)

#### Distribution and Salary of Licensed Practical Nurses



REGION DEFINITIONS: East Cascades (Hood River, Wasco, Sherman, Lake, Gilliam, Jefferson, Wheeler, Deschutes, Crook, Klamath Counties), Eastern Oregon (Morrow, Umatilla, Union, Wallowa, Grant, Baker, Harney, Malheur Counties), Mid-Valley (Linn, Marion, Polk, Yamhill Counties), Northwest (Clatsop, Columbia, Lincoln, Tillamook, Benton Counties), Portland Metro (Multnomah, Washington Counties), Rogue Valley (Jackson, Josephine Counties) Southwest Oregon (Coos, Curry, Doualas Counties)

Source: Oregon Health Authority, 2014; Oregon Employment Department, 2016

Region	Estimate Working	Percent of All LPNs	2015 Median Hourly Wage	2015 Median Annual Salary	
Oregon	3737	100%	\$23.20	\$48,552	
Clackamas	332	9%		\$49,876	
East Cascades	182	5%	\$22.30	\$46,767	
Eastern Oregon	125	3%	\$20.19	\$41,698	
Lane	434	12%	\$21.96	\$46,853	
Mid-Valley	657	18%	\$22.00	\$46,318	
Northwest	131	4%	\$22.40	\$47,365	
Portland Metro	1,327	36%	\$24.46	\$50,548	
Rogue Valley	350	9%	\$23.28	\$48,860	
SW Oregon	189	5%	\$23.40	\$48,728	
Missing	10	0%			

## **Institutions Foster Nurse Activity**

- Scarcity of clinical training sites in rural and frontier Oregon limit the number of nurses.
- Often lack inpatient mental health and long-term care facilities, home health.
- Unable to pay for telehealth and specialist availability.
- "I need a nurse, not a report."

## **Questions?**

For more information, please contact:

Terry Hammond
7624 SE Hawthorne Blvd
Portland OR 97215
thpdx3@gmail.com