

PRESENTED BY:

- The Health Promotion and Chronic Disease Prevention Section of the Oregon Public Health Division
 - Sabrina Freewynn, MPH, Comprehensive Cancer Program Coordinator and Community Programs Liaison
 - Jacqueline Villnave, MPH, Diabetes Program Coordinator and Community Programs Liaison
 - Becky Wright, MPH, Heart Disease and Stroke Prevention Program Coordinator and Community Programs Liaison

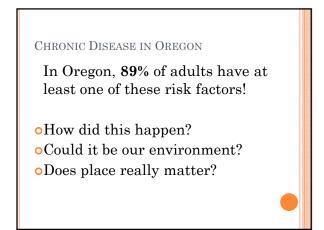
CHRONIC DISEASE IN OREGON

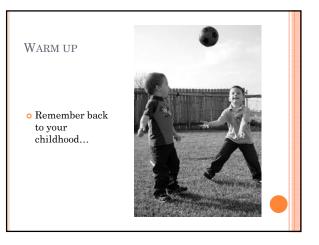
- More than **60**% of adults in Oregon have at least one of these chronic conditions: arthritis, asthma, diabetes, heart disease, high blood pressure, high cholesterol, stroke.
- Half of all men will be diagnosed with cancer in their lifetime and ¼ will die from it.
- One third of all women will be diagnosed with cancer in their lifetime and 1/5 will die from it.

CHRONIC DISEASE IN OREGON

Common preventable risk factors for these diseases include:

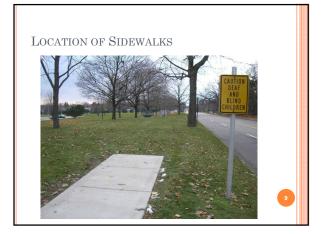
- tobacco smoke exposure,
- being overweight or obese,
- little physical activity, and
- poor nutrition



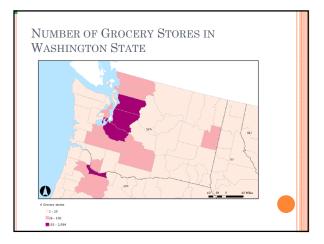


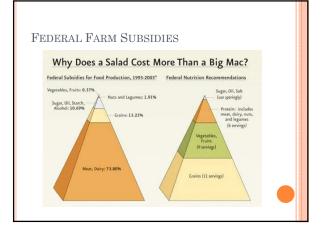




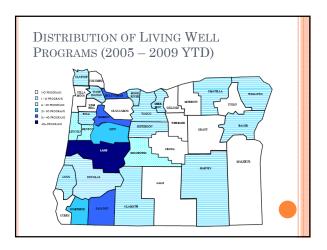


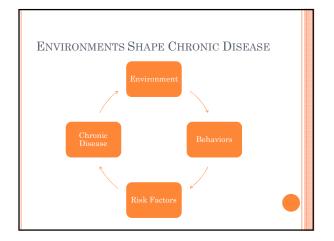




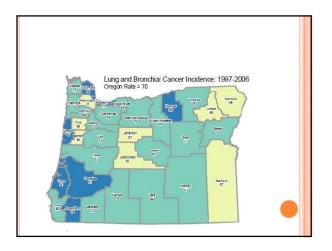


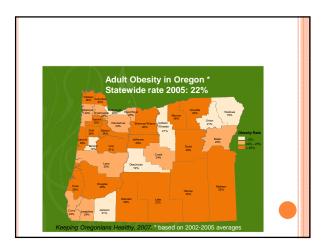


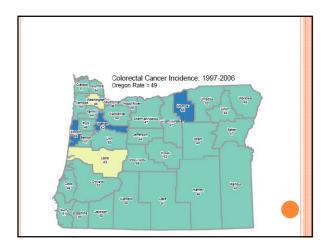


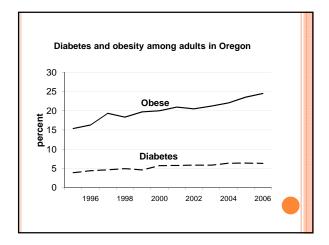


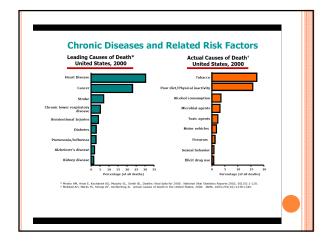












WHY SHOULD WE CARE?

- More than six of every ten adults in Oregon have at least one of these chronic conditions: arthritis, asthma, diabetes, heart disease, high blood pressure, high cholesterol, stroke.
- In 2005, hospitalization costs alone for these conditions in Oregon were more than **\$1.4** billion.

WHY DO WE *REALLY* CARE?

- ${\color{black}\circ}$ We are ${\color{black} all}$ affected by chronic disease
- Think of the most important people in your life.
- Think of other people who impact your life.
- How many of them deal with a chronic condition?
- How many of them have preventable risk factors?

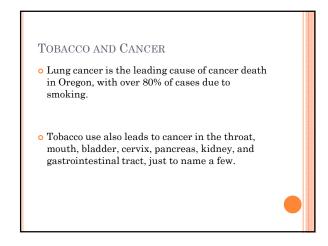
SECONDHAND SMOKE AND HEART ATTACKS

- The Institute of Medicine concluded that exposure to secondhand smoke significantly increased the risk of a heart attack among both smokes and nonsmokers.
- Data from 11 studies in Canada, Italy, Scotland and the US show that smoking bans reduced the incidence of heart attacks from 6 to 47%, and that the reductions occurred shortly after the changes.

SALT AND CARDIOVASCULAR DISEASE

- High blood pressure is a major risk factor for heart disease and stroke
- A diet high in dietary salt is a risk factor for high blood pressure





NUTRITION, PHYSICAL ACTIVITY AND CANCER

The percentage of cancers that could be prevented via healthy diet, regular physical activity, and healthy weight in the US:

TOBACCO AND DIABETES

- Smoking increases insulin resistance, leading to increased blood sugar levels
- Smoking affects circulation, decreasing blood flow to the feet, resulting in more foot amputations among those with diabetes
- Cessation has resulted in clinically significant improvements in HbA1c levels

PHYSICAL ACTIVITY AND DIABETES

- Physical activity reduces the risk of developing diabetes, even without weight loss.
- Physical activity improves glucose, blood pressure and cholesterol levels, which are critical in the management of complications from diabetes



TOBACCO AND ARTHRITIS

- The risk of developing rheumatoid arthritis is almost double for current smokers compared to non-smokers
- People with arthritis are at higher risk of falls, resulting in broken bones. The average time to heal from a broken bone was two months longer for smokers than non-smokers.

PHYSICAL ACTIVITY AND ARTHRITIS

- Physical activity is important in the management of arthritis because it can keep muscles around affected joints strong, decrease bone loss, and reduce joint swelling and pain.
- Excess body weight contributes to both the onset and progression of arthritis. Physical activity is important to maintain a healthy body weight.



TOBACCO AND ASTHMA

- Second hand smoke is associated with the development of asthma in pre-school aged children
- Second hand smoke is a trigger for asthma attacks

PHYSICAL ACTIVITY AND ASTHMA

•Physical activity can help manage stress and reduce obesity

- Stress is a common trigger for asthma
- Obesity makes it more difficult to manage asthma



DISCUSSION

In groups of twos or threes role play or discuss the challenging questions you face:

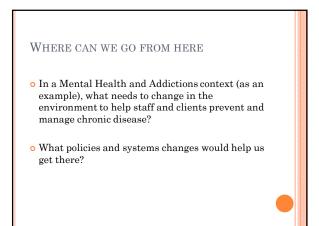
- What about personal freedom and individual choice?
- Don't the people we work with have more important issues to deal with?

DEBRIEF

•How does changing the environment support individual choice and freedom?







SUMMARY

- Chronic disease is a common and expensive problem
- Preventable risk factors are shared by many chronic diseases. They are behavior based and shaped by our environment
- There is an interplay between the environment and individual behavior choice
- Policy options exist for creating supportive environments for the prevention and management of chronic diseases

RESOURCES

- Centers for Disease Control, Arthritis Risk Factors. Available at <u>http://www.cdc.gov/arthritis/basics/risk_factors.htm</u>
 World Cancer Research Fund/American Institute for Cancer Research. Policy and Action for Cancer Prevention. Relative for the state of the s
- Food, Nutrition, and Physical Activity: a Global Perspective. Washington DC: AICR 2009. Available at http://www.dietandcancerreport.org/
- Centers for Disease Control, Prevent Diabetes. Available at <u>http://www.cdc.gov/diabetes/consumer/prevent.htm</u>
- Centers for Disease Control, Heart Disease Prevention. Available at <u>http://www.cdc.gov/heartdisease/what_you_can_do.htm</u>

RESOURCES, CON'T.

 Keener, D., Goodman, K., Lowry, A., Zaro, S., & Kettel Khan, L. (2009). Recommended community strategies and measurements to prevent obesity in the United States: Implementation and measurement guide. Atlanta, GA: U.S.
 Department of Health and Human Services, Centers for Disease Control and Prevention. Available at: <u>http://www.cdc.gov/obesity/downloads/community</u> <u>strategies_guide.pdf</u>

RESOURCES, CONT.

- Centers for Disease Control and Prevention. Community Health Assessment aNd Group Evaluation (CHANGE) Action Guide: Building a Foundation of Knowledge to Prioritize Community Needs. Atlanta: U.S. Department of Health and Human Services, 2010. Available at: http://www.cdc.gov/healthycommunitiesprogram/ tools/change.htm
- Centers for Disease Control and Prevention. Community Guides, including obesity, physical activity, nutrition, tobacco. Available at: <u>http://www.thecommunityguide.org/index.html#t</u> opics

11/10/2010

What is diabetes? DIABETES Diabetes is a chronic disease in which the body does not produce or use insulin adequately to maintain normal glucose (sugar) levels in the blood. Uncontrolled, it can lead to complications such a s blindness, amputations, heart disease, nerve damage, and kidney failure. It requires diligent, daily management. **Risk factors** Who has diabetes? 10% of Oregonians (both adults and children) have asthma. include tobacco & -6.3% of adults in Oregon have obesity In 2009, Oregon was in the top five states for the highest percentage of the adult population with asthma. diabetes, higher than the national average. •Oregonians who currently smoke are more likely to have asthma (27.3%) than those wh have never smoked (9.7%). nationai average. -Rates are higher among African Americans (13%), American Indian/Alaska Natives (12%), Hispanic/Latino (10%), and Asian/Pacific Islanders (7%) The adult population with astma. Rates are higher among African Americans (15.5%), American Indian/Alaskan Natives (15.2%), and homosexual or bisexual individuals (16.0%) – groups known to have high smoking rates. Diabetes Can Affect Various Parts of Your Body •Extremely obese people are twice as likely to report having asthma (19.5%) as compared to healthy weight individuals (7.2%). Oragonians without a college education, with lower income, or on Medicaid or the State Children's Health Insurance Program (SCHIP). Policy Options to Beduce the Children's ۲ Over 15% of Oregonians age 65 and older have diabetes. It is estimated that more than It is estimated that more that twice as many adults with diabetes have prediabetes, which puts a person at high risk for developing diabetes. Reduce the -Burden of Asthma efree worksites, mult •Menu labeling •Allowing students with **Cost of Diabetes** •The total cost of Oregon asthma hospitalizations in 2008 was more than \$28 million. •Additional costs include doctor visits, medications, and value of lost time from school and work. CHORE OF LADGECES In Oregon, it costs the public and private health care systems \$1.4 billion each year to treat diabetes. "These costs do not reflect the toll in human suffering experienced by those with diabetes and their families. asthma to carry their inhalers beverages at school • Reimbursement for •Reimhursement for evidence-based selfmanagement programs

Cost of

cardiovascular

disease

Thousands of Oregonians are hospitalized each year for heart attack, heart

hospitalizations alone was

more than \$1.2 billion in Oregon.

failure, or stroke. •The total cost for

Risk factors include obesity & tobacco

•Obesity puts people at high for diabetes and prediabetes. and the development of complications. Achieving and maintaining a healthy weight is very effective in managing diabetes.

Tobacco use makes it difficult to control blood glucose levels, and increases the risk of complications.

Policy Options to Reduce the Burden of Diabetes in Oregon

Tax on sugar sweetened

evidence based self management programs Smoke free housing, parks and public ve

Obesity is a risk Arthritis factor What is arthritis? what is arbitraria Arthritis is the term used to describe more than 100 rheumatic diseases and conditions that affect joints, the tissue withch survey and the joint and other connective tissue. Arthritis is characterized by pain and stiffness in and around nee or more joints. Arthritis is the most common cause of disability in the parton. Arthritis characterized support. Who has arthritis? describe more than 100 rheumatic diseases and conditions that affect joints, the issue. Arthritis is characterized by pain and stiffness in and around nee or more joints. Arthritis is the most common cause of disability in the parton. Lit is stiffness in and around nee or more joints. Arthritis is the most common cause of disability in the parton. Being overweight or obese increases a person's risk for developing osteoarthritis. developing osteoartmritis. Arthritis makes it more difficult for people to be physically active, and not being physically active is a risk factor for many chronic diseases. Adult females (31%) are more likely to have arthritis than adult males (21%). •A sedentary lifestyle has been linked to increased morbidity in people with arthritis. cause of disability in the nation. Cost of Arthritis is more prevalent among older Oregonians. Arthritis **Policy Options to** among older Oregonians. Prevalence of arthritis is higher among people living in households with low income . In Oregon, the cost of hospitalizations Reduce the Burden of Arthritis in Oregon involving joint •Reimbursement for replacement for people Destruction of cartilage with rheumatoid evidence based self arthritis or osteoarthritis costs more than \$247 million •Physical activity interventions such as the Inflamed it capsule Inflamed each year. Arthritis Foundation •Menu labeling •Additional costs include Additional costs include medications, healthcare visits and the value of lost time from work. Synovial fluid •Tax on sugar sweetened Enlarged view of a joint beverages

Who has asthma?

Cost of asthma

Cardiovascular Disease Charton to the second structure of the second structur Risk factors include Who has

cardiovascular disease?

•The prevalence of high blood pressure among Oregon adults is 27%. This is higher among African Americans at 42% and American Indian/Alaska Natives at 30%. African Americans consistently have higher death rates than other racial/ethnic populations for stroke.

In Oregon, heart disease is the 2^{nd} leading cause of death and stroke is the 4^{th} leading cause of death.



Bisk factors include obesity & tobacco -The risk of aradiovascular disease persists even at one to two cignettes smoked a day -Snoking 15 cigarettes a day can increase the risk for stroke by up of our times -Conbing tobace on more than -Conbing tobace on the stroke of -Diabetes. These contributes to Diabetes. These c

Policy options to reduce the burden of cardiovascular

disease •Reimbursement for evidence based self

•vinence nased self management programs. •Smoke free housing, parks and public venues. •Menu labeling •Tax on sugar sweetened beverages

What is cancer?

ASTHMA

What is asthma? Asthma is a chronic disease involving inflammation of the invays, causing where the stranger of the start of the where the stranger of the stranger of the stranger of the stranger out, and the stranger out, and the stranger out, and the stranger second hand smoke, ozone, particulates).

(de

Asthma

What is asthma?

Normal

Cancer is a term used for diseases in which abnormal cells divide without control and are able to invade other tissues. Cancer is not just one disease but many diseases. There are more than 100 different types of cancer.

Who has cancer? Approximately 1/3 of all men and 1/4 of all women will be diagnosed with cancer in their lifetime.

On an average day in 2006, 55 Oregonians were diagnosed with cancer and 20 died from it.

Someone is considered a cancer survivor from the day they are diagnosed.

Cancer **Risk Factors for**

Cancer

Cancer • Obacco is the number one modifiable risk factor for cancer. It is estimated that U3 of all cancers are ue to tobacco use. • Obesity, physical inactivity and poor diet together are the second leading modifiable risk factor for cancer. Estimates are harder, but current thinking is that up to U3 of all cancers are due to these factors. • Additional risk factors include environmental exposures such as workplace carcinogens and sunlight, genetic predisposition, alcohol, and some viruses and bacteria.



Screening for Cancer which screenings are recommended for everyone of the appropriate age for everyone of the appropriate age and gender: •Colorectal cancer screening for veryone 60-74 years old. In 2008, Oregon's screening rate was 50-28. Breast cancer screening is recommended for all women 50 and over (or 40 and over depending on the guidelines). In 2008, Oregon's screening rate was 82-218. •Cervical cancer screening is recommended for all avaulty

Cost of cancer • Cancer is the leading cause of death for Oregonians. In 2006, 7,401 Oregonians died due to

•Cervical cancer screening is recommended for all sexually active women 21 and over. In 200 Oregon's screening rate was 84.3

