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## Native American Research, A Researcher Perspective: Connecting with Native Communities

Leander R. McDonald, PhD Memorial Union, Arikara Native American Heritage Events North Dakota State University November 20, 2008, 1:15-2:15pm



Funded by the Administration on Aging

Connecting resources and knowledge to strengthen the health of people in rural communities.

#### Center for Rural Health

- Established in 1980, at the University of North Dakota School of Medicine and Health Sciences in Grand Forks, ND
- Focuses on:
  - Education, Training, & Resource Awareness
  - Community Development & Technical Assistance
  - Native American Health
  - Rural Health Workforce
  - Rural Health Research
  - Rural Health Policy
- Web site: http://ruralhealth.und.edu

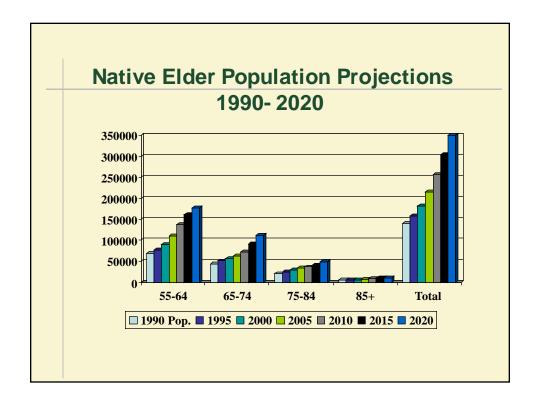


# National Resource Center on Native American Aging

- Established in 1994, at the Center for Rural Health, University of North Dakota School of Medicine and Health Sciences
- · Focuses on:
  - Education, Training, and Research
  - Community Development & Technical Assistance
  - Native Elder Health, Workforce, & Policy
- Web site: www.nrcnaa.org

## **Native Elder Issues**

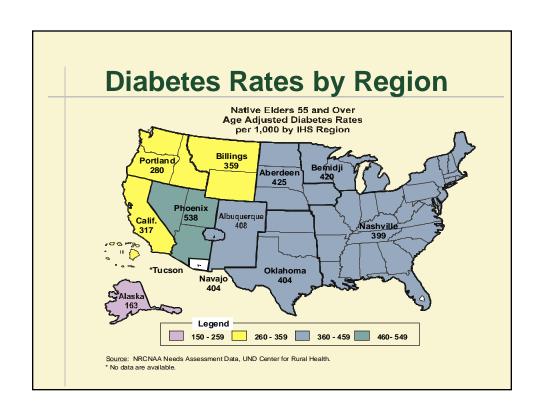
- Growing elder population with Boom generation
- Lower life expectancy
- Higher chronic disease rates
- Higher health risk factors
- Lack of screening
- Lack of long-term care services in Indian Country
- · Changing family structure

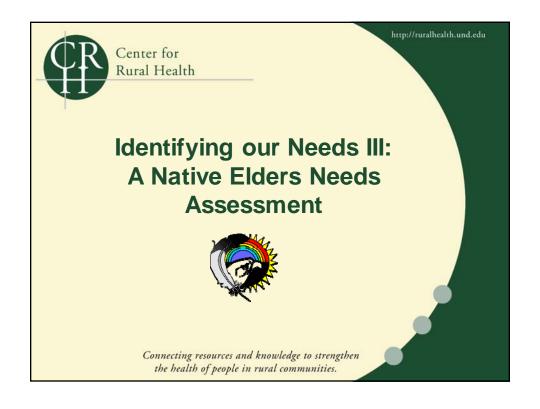


## **Regional Variances**

- · One size does not fit all
- Variation in regard to life expectancy and chronic disease
  - Ex. California Indian Health Service Area life expectancy is close to the nations; however, Aberdeen Area is 64.3, a difference of 12.5 years.
  - Ex. Alaska Area (16%) has diabetes rate close to the general population at 14%; whereas, the majority of other regions are at 37% or higher.
- Once you seen one tribe you've only seen one tribe

by IHS Area					
IHS Area	At Birth	At Age 55	At Age 65	At Age 75	
Aberdeen	64.3	189	13.2	8.5	
Bemidji	65.7	187	12.7	10.1	
Billings	67.0	202	13.9	8.9	
Alaska	68.0	21.3	14.7	9.2	
Tucson	68.4	22.2	15.8	10.0	
Phoenix	<b>6</b> 9.8	226	16.1	10.6	
Portland	71.7	23.1	16.0	10.1	
Navajo	71.9	249	17.7	11.7	
Nashville	72.2	228	16.3	10.5	
Albuquerque	72.7	25.4	19.6	12.2	
Oklahoma	74.2	25.7	18.2	13.1	
California	76.3	269	19.4	13.3	
All Indians	71.1	23.5	16.7	11.2	
**US All Races	768				





#### The Needs Assessment Team

- Leander "Russ" McDonald, Ph.D Director
- Richard Ludtke, Ph.D.
- Kyle Muus, Ph.D.
- Twyla Baker-Demaray, Research Analyst
- Kim Ruliffson, Project Assistant
- Joelle Ruthig, PhD, Research Associate
- Mary Gattis, Graduate Research Assistant
- Pam Ness, Graduate Research Assistant
  - Kaylee Compton, Student Assistant
  - C.W. Hall, Student Assistant

### **Purpose of the Project**

- Assist tribes in collecting data useful for building infrastructure in their communities.
- Multiple methods are used throughout the study, primary method of data collection is the survey instrument (administered faceto-face with the elders).
- Fulfills requirements for tribes' Title VI
   Elder Nutrition program grant applications.

#### **Population**

- Native American elders residing primarily on reservations
- Individuals age 55 and over living on or around Indian areas.
  - Age 55 is considered comparable to 65 and over in the general population

#### Data is collected on

- · General health status
- Activities of Daily Living (ADL's)
- Instrumental Activities of Daily Living (IADL's)
- Indicators of chronic disease
- Cancer screenings
- Access to healthcare
- · Indicators of vision and hearing
- · Tobacco and alcohol use
- · Nutrition and exercise
- · Weight and weight control
- Social supports

#### **National Resource Center Provides:**

- Survey instruments a standardized tool
- Assistance with sampling
- Training on data collection
- Technical support
- Data entry
- Data analysis
- Statistical profiles of your elders
- · Comparisons with national norms

#### **Local Communities Provide:**

- A resolution from their tribal councils
- · A list of names/subjects for the sample
- Data collection
- Local implementation and coordination

### **Current Status of Project**

#### Cycle I

- 190 tribes from 87 different sites are represented in national file
- 9,403 Native elder participants have filled out the survey
- At least one tribe from 11 of the 12 I.H.S. Regional Areas were represented in the national file

#### Cycle II

- 342 tribes from 145 sites representing 10,743 Native elders have completed Cycle II
- All 12 I.H.S. Regional Areas were represented in the national file

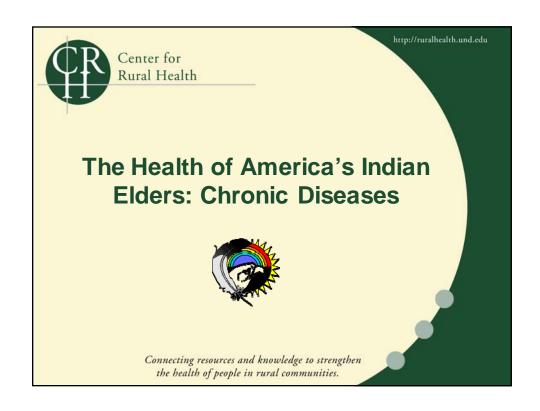
## **Current Status of Project**

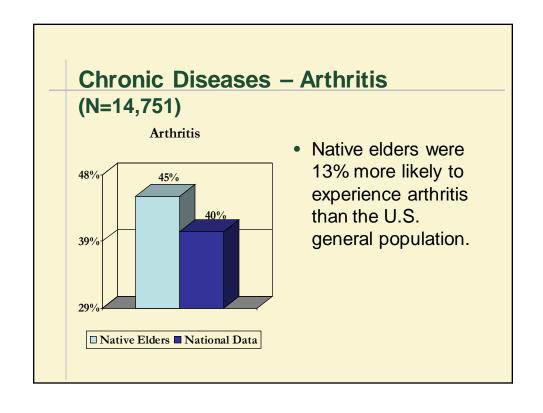
#### Cycle III

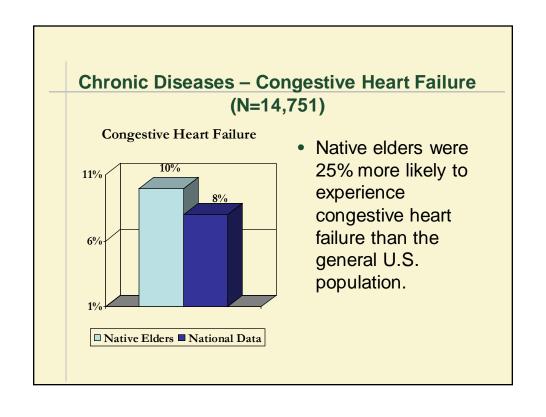
- 298 Tribes/Alaska Native Villages/Hawaiian Homelands from 127 different sites
- 15,565 AIANNH elders completed the NRCNAA or NSAIE survey
- All 12 I.H.S. Regional Areas are represented in the national file.

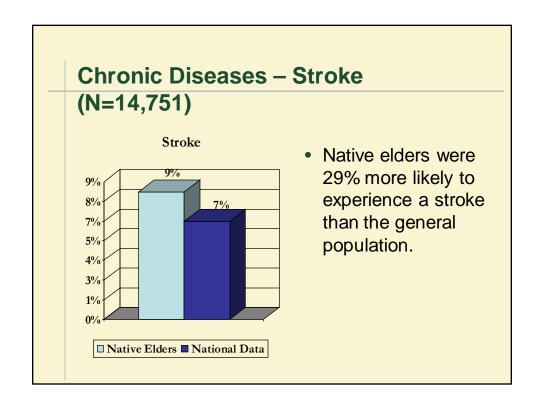
#### Cycle IV

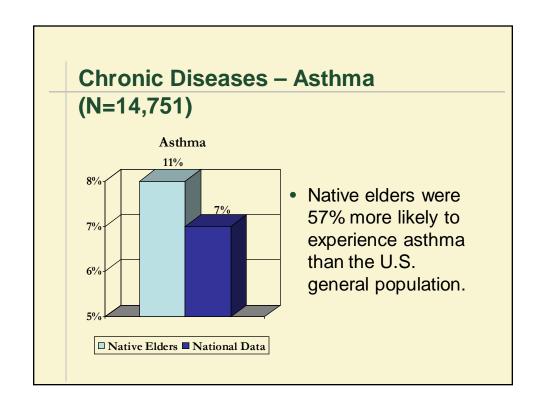
- Ongoing resources are available to tribes wishing to conduct a needs assessment
- Needs assessments conducted from April 1, 2008 to January, 2011 are valid for Title VI nutrition and caregiving grant application.

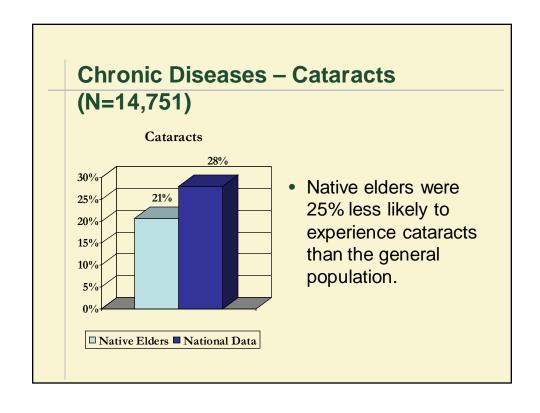


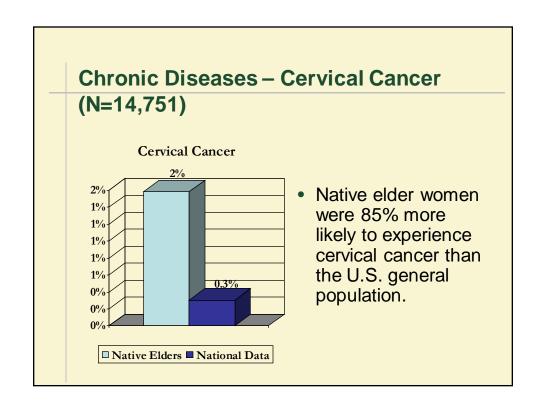


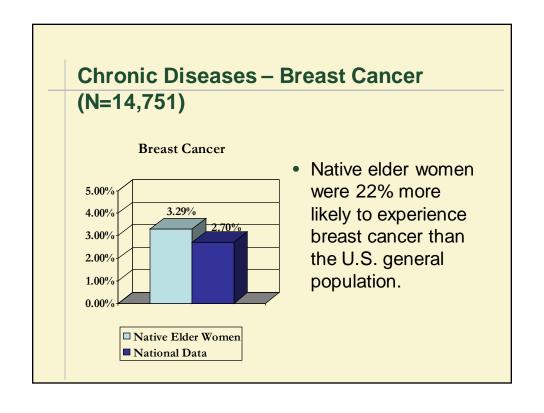


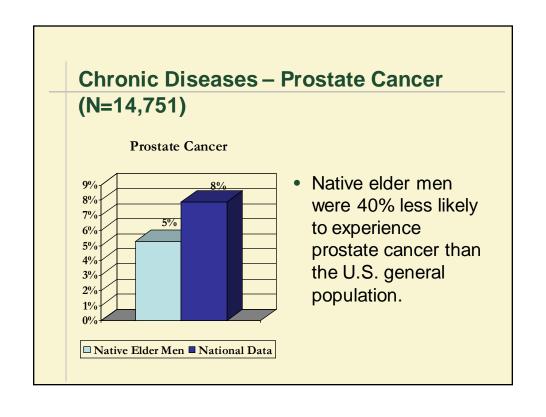


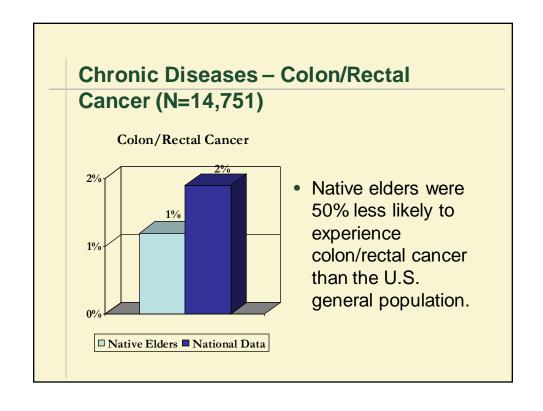


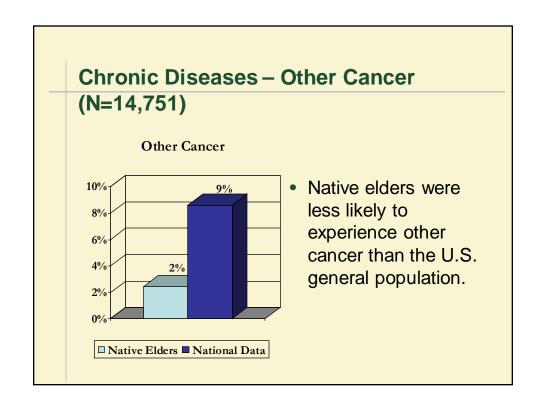


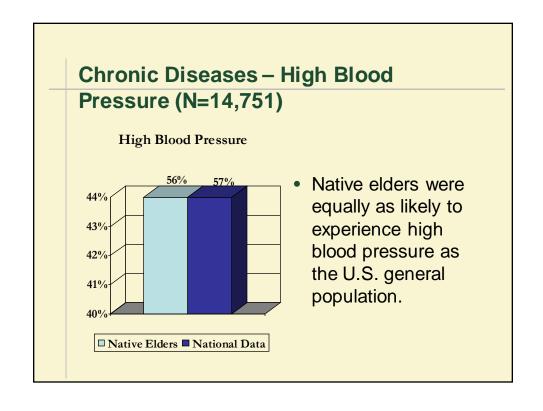


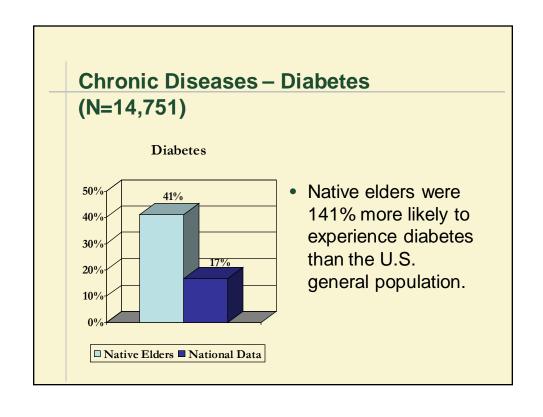


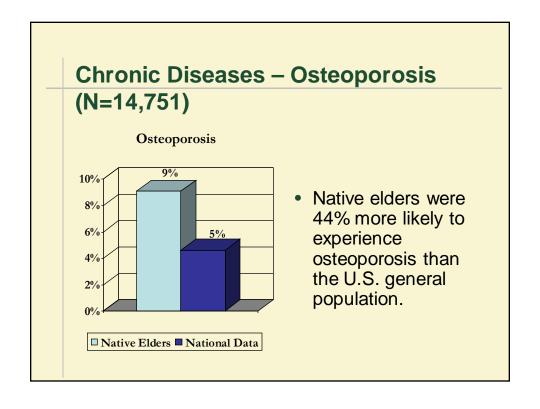


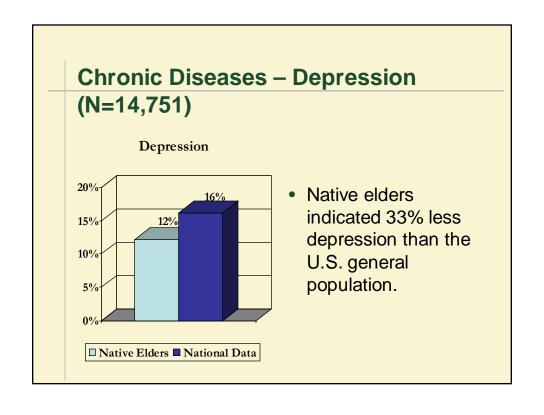




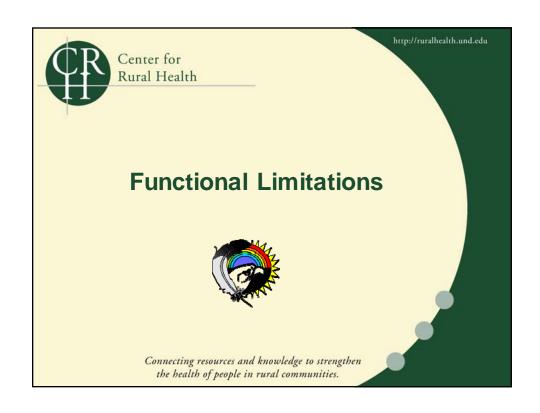












### **Functional Limitations**

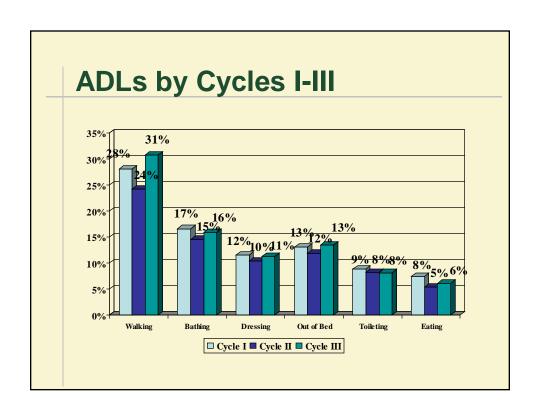
 The majority of definitions concerning functional limitations or disability refer to activities of daily living (ADL's) and instrumental activities of daily living (IADL's) as indicators of functionality.

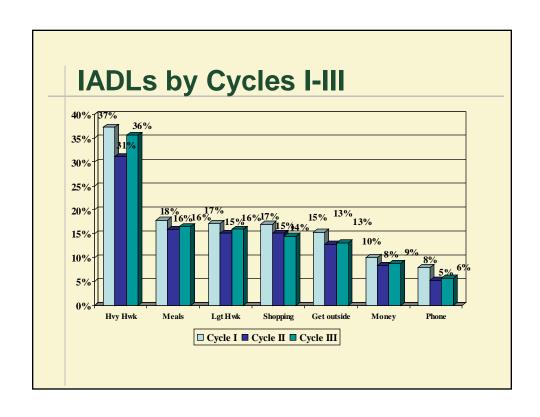
## **Activities of Daily Living (ADL's)**

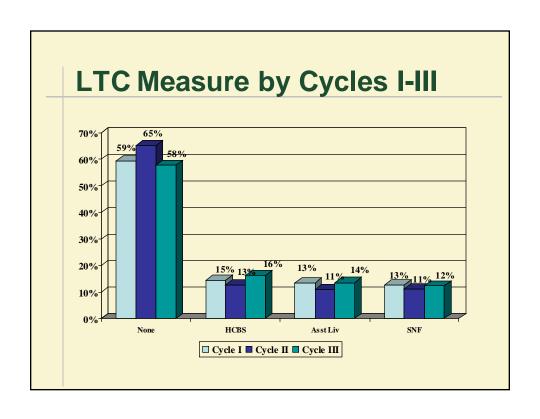
- Eating
- Walking
- Using the toilet
- Dressing
- Bathing
- · Getting in/out of bed

## Instrumental Activities of Daily Living (IADL's)

- Cooking
- Shopping
- Managing money
- Using a telephone
- Light housework
- Heavy housework
- Getting outside







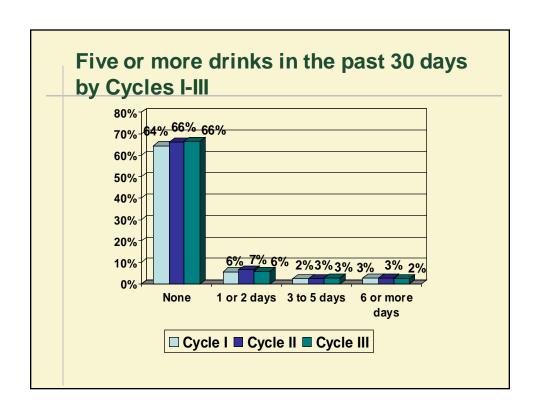
## **Functional Limitation Categories**

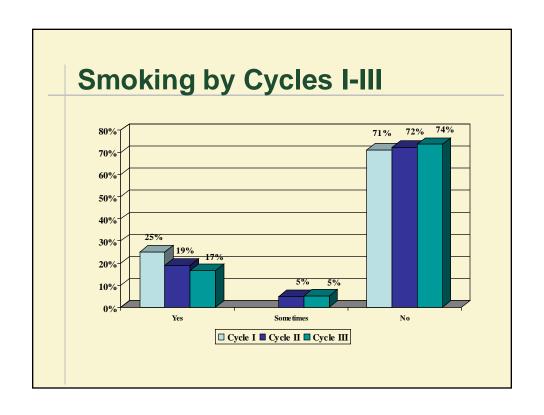
Categories	Limitations	Recommended Services
Little or none	No ADL limitations, up to one IADL limitation	Health Promotion
Moderate	One ADL limitation with fewer than 2 IADLs	Home and Community Based Services
Moderately Severe	2 ADL limitations	Assisted Living
Severe	3 or more ADL limitations	Skilled Nursing Facility

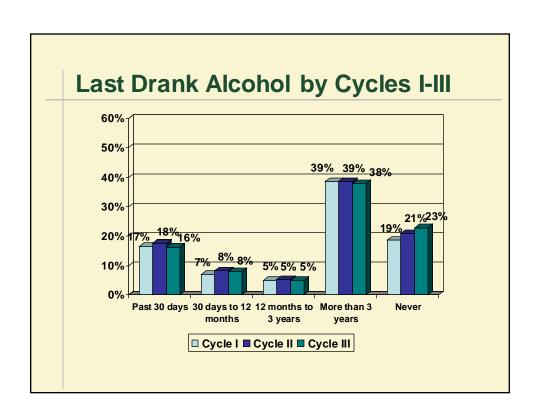
## **Functional Limitation Levels Applied to Services and Personnel**

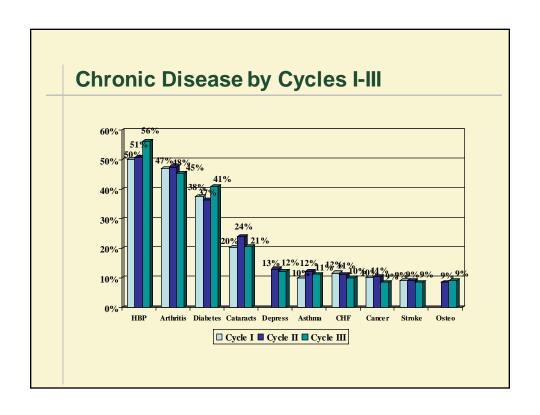
Level Functional Limitation	Service Goals	Services with best fit	Personnel required
Little or none (59%)	Health promotion, preventive care, maintaining vitality	No caregiver services required Health Promotion/Preve ntion	Health educators, physical trainers, therapists
Moderate (21%) Requires assistance usually consistent with remaining in one's home.	Train and support informal providers and buffer them with respite and contact services for a range of possible tasks.	Informal care – w/supports Examples: •Day/night care* •Physical therapy •Transportation *  * Require local providers	Family and friends, Facility staff – LPN/CAN, Rental source RN, LPN, PT, or inst itutional site

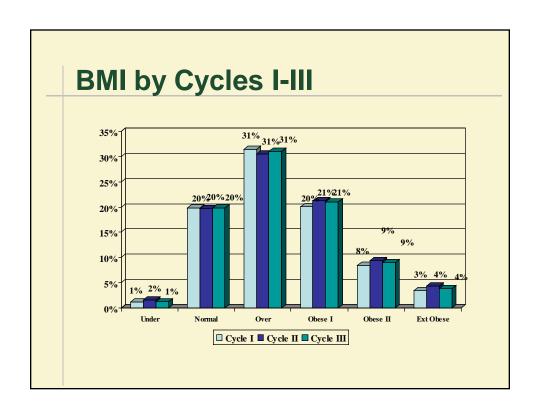
Services and Personnel Cont					
Level Functional Limitation	Service Goals	Services with best fit	Personnel required		
Moderately Severe (7%)	The goal is to provide housekeeping and meals along with a modest level of oversight. People may contact for services from the home and community based services.	Congregate care Basic care facilities Assisted Living	Institutional staff as required by state regulations		
Severe (13%) With 3 or more ADLs, this level tends to become prime candidates for skilled nursing care.	Skilled nursing care is the most fully institutional and is reserved for those with medical needs necessitating this level of care.	Skilled Nursing Care	Institutional staff as required by state regulations		
Terminal as special category	End of life care occurs at all points on the above continuum, but is concentrated at the higher levels of limitation. The goal is physical and emotional comfort.	Hospice Care	*Hospice volunteers and coordinator * Requires local providers		

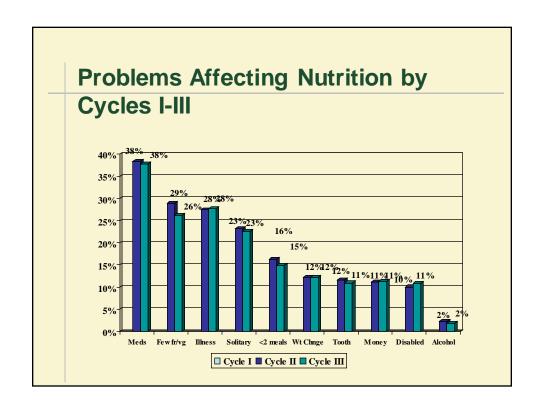


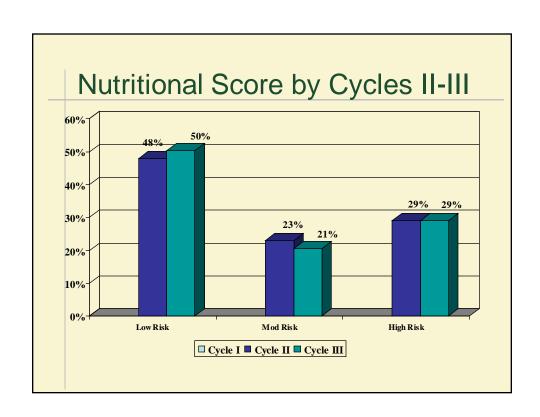


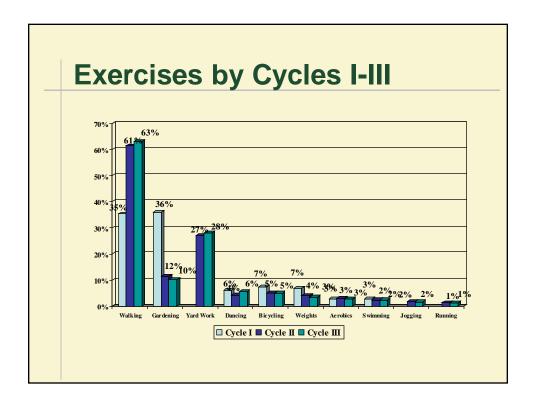












## **Community Level Data Uses**

- Renewal of Title VI Native Elder Nutrition and Caregiving Grants
- > Strengthening of grant proposals
- > Documentation of health disparities
- Documentation of need for health promotion, home and community based services, and assisted living

#### State & National Data Uses

- ➤ South Dakota State Legislative Research Committee
- ➤ Senate Committee on Indian Affairs
- ➤ National Indian Council on Aging
- ➤ National Congress of American Indians
- ➤ White House Conference on Aging

## Regional and National Data Use Recommendations

- Training for increasing skills for Native elder service providers
- Advocating for resources at the state, regional, and national level
- Developing policy for informing national Native elder organizations
- Filling the research gap for Native elder related publication
- > Training Native researchers in the aging field

#### **Conclusions**

- Native elder populations are dramatically growing.
- Tribal recognition of age 55 for elder status includes those elders from the baby boom generation.
- Tribes may wish to consider increasing eligibility age for services to 62 years of age.

### Conclusions cont.

- Chronic diseases prevalence is mixed with several increasing and others steady.
- Increases may well relate to risk factors.
  - Exercise Walking increased dramatically in Cycles I to II and leveled off in Cycle III.
  - Nearly all other exercises decreased.
  - Weight issues increased young old are heaviest.
- Lifestyle modification continues to merit attention.
  - Positive results for walking provide a major source of encouragement.
- Chronic disease self management will be essential to avoiding future functional limitations as this population grows older.

