





People with Intellectual or Developmental Disabilities and Dementia

2013 NIH/ACL Alzheimer's Webinar Series
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WELCOME

Laurie M. Ryan, PhD

Program Director, Alzheimer's Disease Clinical Trials

Division of Neuroscience

National Institute on Aging

National Institutes of Health

U.S. Department of Health & Human Services

301-496-9350

ryanl@mail.nih.gov



Dementia in Adults with Intellectual and Developmental Disabilities

Seth M. Keller, MD
Co-Chair NTG
Immediate Past President, AADMD
sethkeller@aol.com



Dementia in adults with I/DD

- Understanding dementia
- 'Early onset' dementia in Down syndrome
- Challenges to diagnosis and care
- Assessments
- Care guidelines
- Tips for advocates
- The "Team" and needed services

Understanding dementia

Knowns...

- People with ID have same rate of dementia as general population
- Some people with ID have <u>higher rates</u> (e.g., Down syndrome, head injury)
- Some % of any adult client pool will be affected
- Effects of dementia will be progressive and eventually lead to death
- Early interventions can aid in adapting to changes and prolonging lucid periods

Unknowns...

- Who will be affected?
- How pronounced will be early changes?
- How dramatic will be the changes in function?
- How long will person live after diagnosis?
- What other diseases or medical conditions may be co-incident?
- What particular dementiarelated behaviors will be more evident?

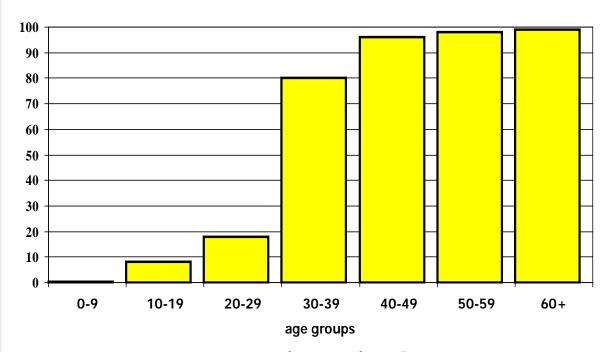
Percentage of people with Down syndrome who develop dementia at different ages:

Age percentage with clinical signs of dementia

30's	2%
40's	10-15%
50's	33%
60's	50-70%

Source: Neil, M. (2007). Alzheimer's dementia: What you need to know, what you need to do. Understanding intellectual disability and health. Accessed from http://www.intellectualdisability.info/mental-health/alzheimers-dementia-what-you-need-to-know-what-you-need-to-do.

Percent persons with Down syndrome showing evidence of neurofibrillary tangles (NFT) and senile plaques (SP) at autopsy



Source: Mann (1993) – [based on 39 published studies n=434]

Issues that arise with respect to dementia and Down syndrome

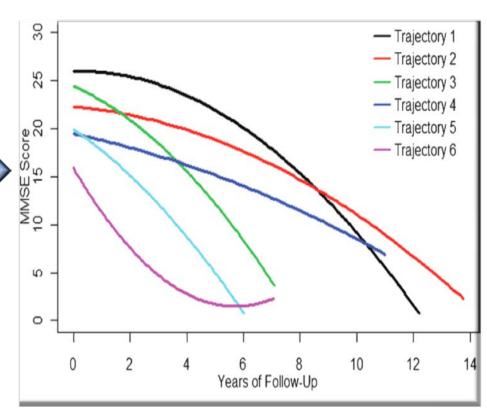
- ✓ Much higher prevalence of neuropathology indicative of AD in most adults w/Down syndrome (DS)
- ✓ Generally dementia of the Alzheimer's type is prevalent in adults with DS
- ✓ Average onset age in early 50s for DS (late 60s for others)
- ✓ Most DAT diagnosed within 3 years of "onset" in adults w/DS
- ✓ More initial personality change in DS (rather than memory loss)
- ✓ Late onset seizures found in large number of adults w/DS
- ✓ Duration generally is from 2 to 7 years
- ✓ Aggressive forms of AD can lead to death <2 years of onset in adults w/DS

Issues that arise with respect to dementia and Down syndrome

- Older adults with Down are at high risk of Alzheimer's disease
- Not every adult will show signs of dementia as he or she ages
- Age-associate decline may be due to aging and not dementia
- Institute baseline for ('personal best') functioning at age ~40
- Useful to know the signs of MCI and dementia and keep track of capabilities after age 40
- Early detection screening useful to identify possible progression into MCI or dementia
- Early referral for assessment or diagnosis if signs present is advised

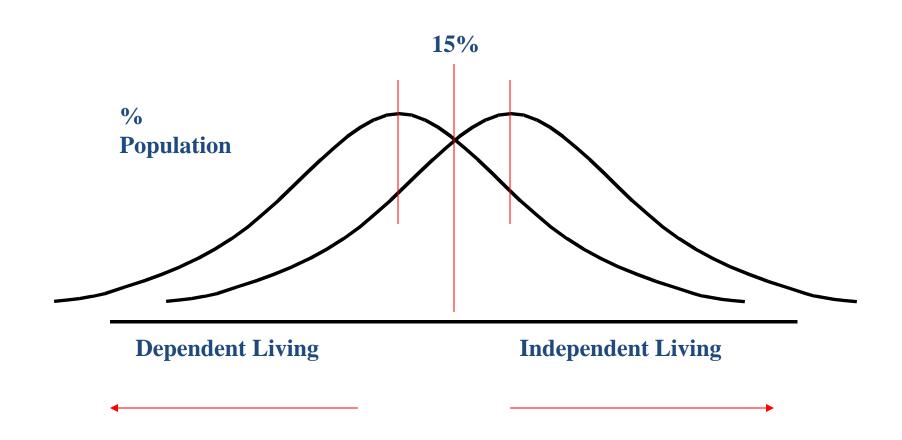
Critical factors

- Degree of retention of function
- Expected trajectory of progressive dysfunction
- Duration (remaining life years)
- Type of dementia
- Health status
- Environmental accommodations



Varying trajectories have implications for continual assessment and adaptations to care management

Small change in cognitive capability could have profound impact on independence



Challenges to diagnosis and care

- Individuals with I/DD may not be able to report signs and symptoms
- Subtle changes may not be observed
- Commonly used dementia assessment tools are not relevant for people with I/DD
- Difficulty of measuring change from previous level of functioning
- Conditions associated with I/DD maybe mistaken for symptoms of dementia and diagnostic overshadowing
- Environmental influences may be more important in I/DD
- Aging parents and siblings
- Lack of research, education, and training

Assessing the "problem"

- Knowing that a change in function is a concern; when is a change in function part of normal aging or not?
- Diagnostic overshadowing
- Benefits of early diagnosis
- Documenting a change in function has occurred from a prior established baseline (NTG-EDSD)
- Diagnostic Assessment tools
- Change of care perspective

Early detection/screening

'NTG-Early Detection Screen for Dementia' (NTG-EDSD)

- Usable by support staff and caregivers to note presence of key behaviors associated with dementia
- Picks up on health status, ADLs, behavior and function, memory, self-reported problems

<u>Use</u>: to provide information to physician or diagnostician on function and to begin the conversation leading to possible assessment/diagnosis

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those a demen and far well as visit fo It is rec with a cogniti six mo observ The es	adults with an intellectual disability who are su tiat. The NTG-EDS is not an assessment or dis- mily caregivers to note functional decline and to serve as part of the mandatory cognitive are I Medicare recipients. This instrument compli- commended that this instrument to used on a ge 40, and with other at-risk persons with in a ge 40, and with other at-risk persons with in nths), such as a family member, agency suppor ation or from the adult's personal record.	ispected of or may agnostic instrumen health problems a ssessment review t sses with Action 2.8 (an annual or as indi tellectual or deve yone who is familia rt worker, or a beh is between 15 and	JIID*, can be used for the early detection screening of the showing early signs of mild cognitive impairment or t, but an administrative screen that can be used by staff of record information useful for further assessment, as that is part of the Affordable Care Act's annual wellness of the US National Plan to Address Alzheimer's Disease. icated basis with adults with Down syndrome beginning lopmental disabilities when suspected of experiencing with the adult (that is, has known him or her for over lavioral or health specialist using information derived by d 60 minutes. Some information can be drawn from the dditional instructions (www.aadmd.org/ntg/ screening).
(1)File #:		⁽²⁾ Date	:
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⁽⁷⁾ Sex:			
(1) Sex:	Female	¬	Instructions:
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Best de	Male Secription of level of intellectual disability No discernible intellectual disability Borderline (IC 70-75) Mild ID (IC 75-69) Moderate ID (IC 40-54) Severe ID (IC 25-39) Profound ID (IC 24 and below) Unknown Seed Condition (check all that apply) Autism Cerebral palsy Down syndrome Fragile X syndrome		For each question block, check the item that best applies to the individual or situation. Current living arrangement of person: Lives alone Lives with spouse or friends Lives with paid caregiver Lives with paid caregiver Lives in community group home, apartment, supervised housing, etc. Lives in senior housing Lives in congregate residential setting

http://aadmd.org/ntg/screening

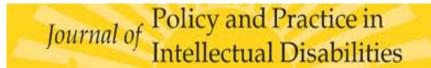
Informant-report and objective measures for clinical assessment of dementia in people with intellectual disabilities

- Adaptive Behaviour Dementia Questionnaire (ABDQ)
- Assessment for Adults with Developmental Disabilities (AADS)
- Dementia Questionnaire for People with Learning Disabilities (DLD)
- Dementia Scale for Down Syndrome (DSDS)
- Dementia Screening Questionnaire for Individuals with Intellectual Disabilities (DSQIID)
- Prudhoe Cognitive Function Test
- Test for Severe Impairment

Important Care Perspectives

- Change of care focus
 - Going from making gains to that of maintaining function and dealing with eventual loss and decline
- Supporting family caregivers
 - Recognize the challenges faced by the aging caregiver
 - Support sibling and parent care providers

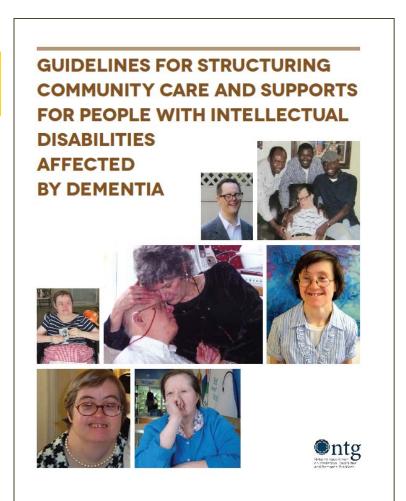
Guidelines for Structuring Community Care and Supports for People With Intellectual Disabilities Affected by Dementia



Volume 10, Issue 1, pages 1–24, March 2013

Nancy Jokinen
Matthew P. Janicki
Seth M. Keller
Philip McCallion
Lawrence T. Force and the
National Task Group on Intellectual
Disabilities and Dementia Practices

http://aadmd.org/NTG



Some Key Features of the Guidelines

Background

 NTG initiative, underlying principles, dementia as it affects people with ID

Staging Model

- Early recognition of symptoms → late stages
- Expected changes in behaviour & function
- Recommended actions

Early Detection

- Use of an early detection tool
- · Assessment & diagnosis period

Program / Support Options

- Critical concerns in varying circumstances
- Non pharmacological approaches

Auxiliary Issues

 Abuse, financial, managing choice & liability, medications and nutrition

Collaboration

- Intellectual disability, aging, Alzheimer's, health
- Policies, programs, services

Tips for Health Care Advocacy

- Be aware of myths and stereotypes about aging in persons with I/DD
- Know the individuals; who they are and how they've been focusing on specific ADLs
- Never assume it is the result of normal aging!
 Diagnostic overshadowing
- Know the possible side effects and interactions for medications used by the individual
- Differential diagnosis
- Be prepared for visit

Tips for Health Care Advocacy

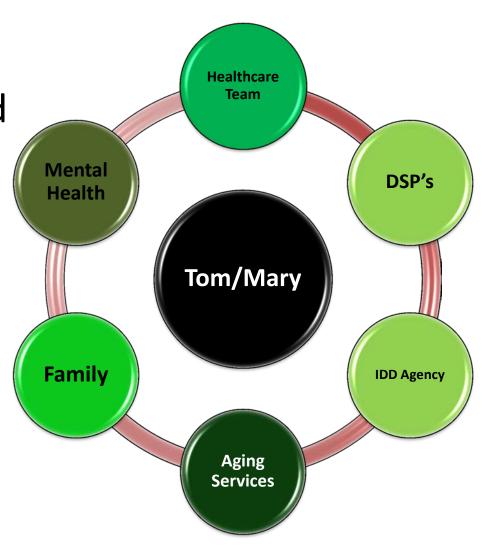
- Be empowered
- Form alliances and partnerships with health care team
- Appreciate aging parents' issues
- Understand and create support structure; aging and I/DD
- Determine expectations and goals

What kinds of services are needed for people with ID and dementia?

- Supports for continued living with families when available and appropriate
- Engaging activities in community settings
- Health reviews and surveillance by clinicians who understand ID, aging, and neuropathologies
- Appropriate screening and assessments for agingrelated conditions
- Health maintenance nutrition and regular physical exercise
- Supports for 'dementia-capable' care in community care settings that can change as the disease progresses; including education and training

Team Approach to Care

- Improving outcomes
- Respect for need and opinions of team members
- Helps anticipate and prepare for decline
- Who is the team??



Aging adults with ID...

- are a vulnerable population and may need special help when dementia symptoms arise
- may have significant co-morbidities from a lifetime of challenges
- often need specialized housing and care settings to preclude being institutionalized as they age
- could be residing with older parents who themselves are declining and who may need additional help
- may be difficult to assess due to lifelong cognitive impairments or inabilities to self-report
- can benefit from partnership arrangements between aging network and I/DD providers

Help for DD and dementia

On-line

- http://aadmd.org/ntg
 - For publications, screening tools, and other resources on dementia and I/DD
- http://www.alz.org/dementia /down-syndrome-alzheimerssymptoms.asp
 - For information on Down syndrome and dementia
- http://www.ndss.org
 - Look for their new booklet: Aging and Down Syndrome: A Health & Well-being Guidebook

State, regional, local

- Contact
 - Your state developmental disabilities agency
 - Your state aging agency
 - Your area agency on aging
 - Your state chapter of The Arc
 - Your state developmental disabilities planning council
 - Your state or local chapter of the Alzheimer's Association
 - Your state's Caregiver Support
 Program
 - Local dementia assessment clinics or centers

The National Task Group is largely supported by the American Academy of Developmental Medicine and Dentistry and the University of Illinois at Chicago's RRTC on Aging and Developmental Disabilities – Lifespan Health & Function

Matthew P. Janicki, Ph.D.
University of Illinois at Chicago
RRTC/Aging and DD
Chicago, Illinois USA
mjanicki@uic.edu

Seth M. Keller, M.D.

AADMD

Advocare Neurology of

South Jersey

sethkeller@aol.com

Co-chairs

Visit us at — http://aadmd.org/ntg

Overview of Research on Down Syndrome and Aging: Opportunities and Challenges

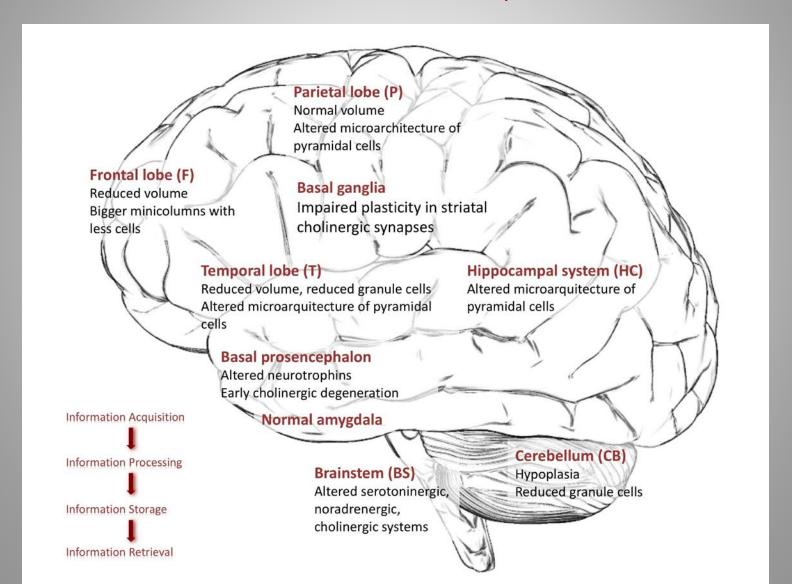
Ira T. Lott, MD
Professor Emeritus
University of California, Irvine

Outline

- Mouse models
- Cognitive functioning
 - Clinical trials
 - Telemedicine

Neuropathological Topography (Lott and

Diersessen, 2010)



Mouse Models for Down Syndrome

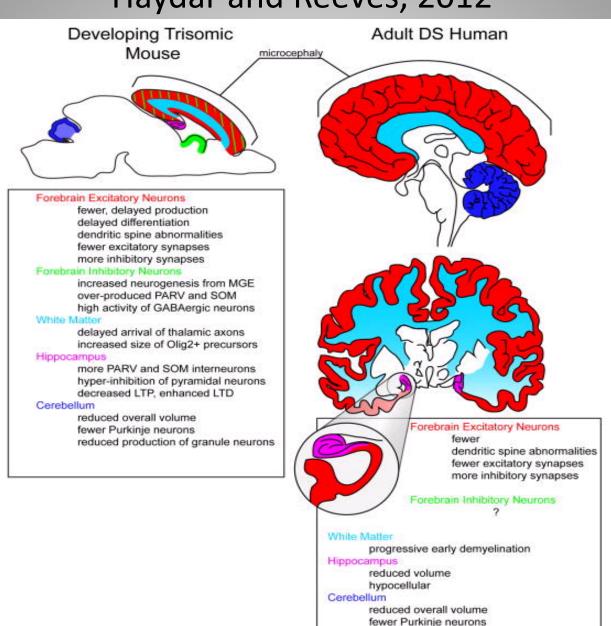
Overexpression of same genes

Can study individual genes

Can experimentally manipulate model

Offers a platform for translational research

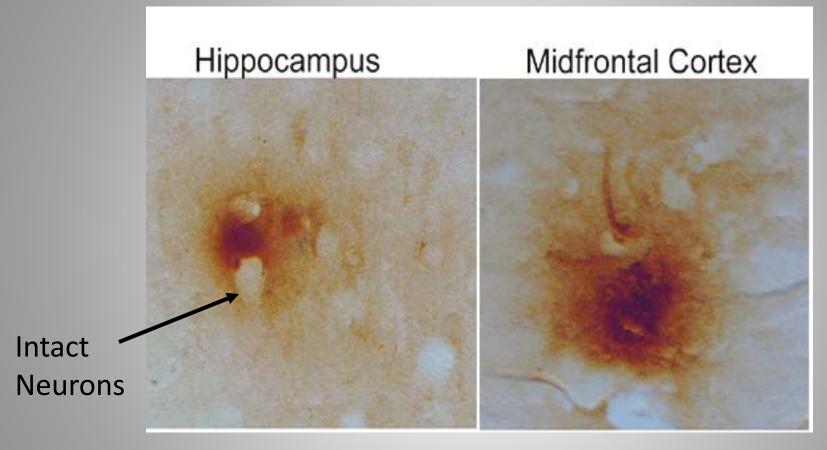
Haydar and Reeves, 2012



Intellectual disability in DS (Dierssen review, 2012)

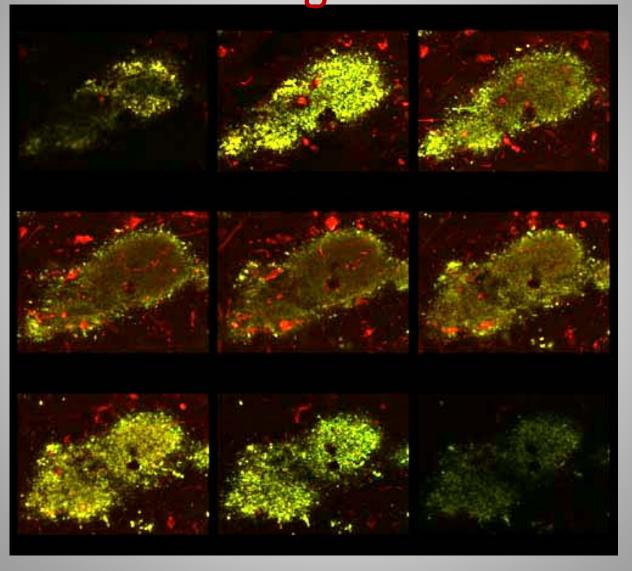
- Disruption in keeping incoming information on line, mental computation, and storage
 - Uneven working memory
 - Visual short term memory worse than visualspatial memory
- May impair downfield cognitive performance in language, vocabulary and problem solving

Early Onset Aβ in Down syndrome



4 months old – anti-A β 1-16 immunostaining in free-floating formic acid pretreated 50 μ m thick formalin-fixed sections.

Diffuse plaques are associated with neurodegeneration



Effect of synaptic disruption on executive functioning in DS

 Executive function refers to cognitive operations that regulate other processes such as attention, planning, working memory

- Adolescents with DS show impairments in task assessment, set shifting, and working memory reflective of executive dysfunction (Lafranchi 2010)
- Executive dysfunction becomes more marked with age and dementia changes (Ball, 2008; Adams 2010)

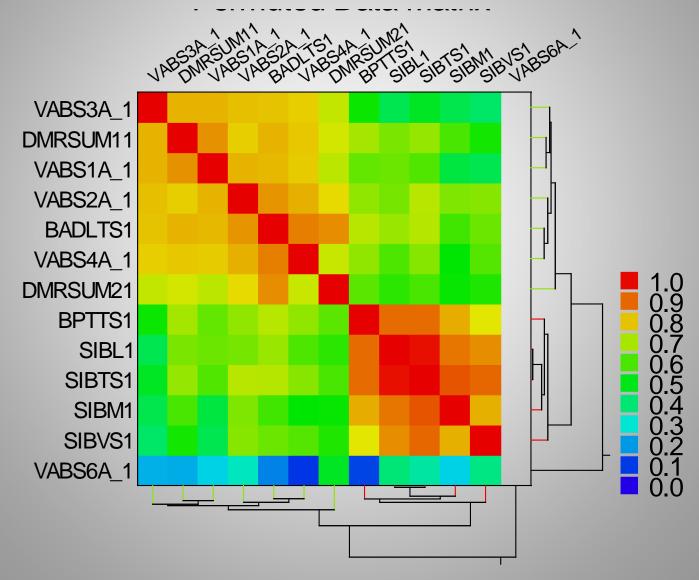
Emotional Changes in Early Dementia

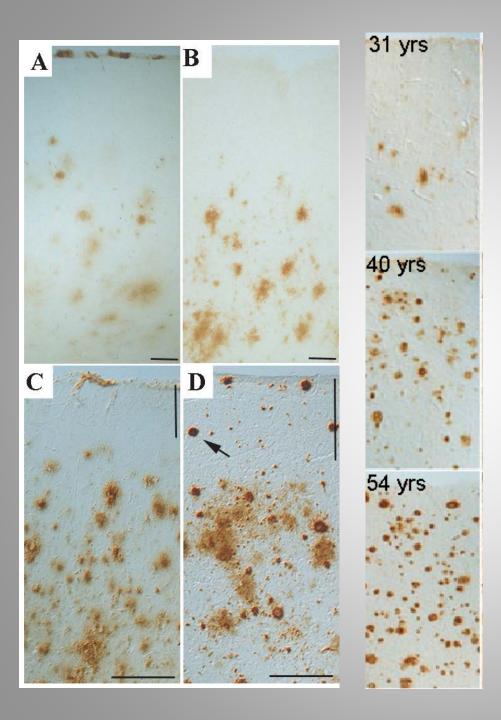
- Apathy, indifference, pragnosia associated with abnormal neurological findings and atrophy on brain MRI (Nelson et al 2001)
 - CAMDEX informant measures show impaired frontal functioning in preclinical AD in DS
 - Measures of cognition, receptive language, behavior and executive functioning implicate frontal lobes in early dementia in DS

Examples

- Arizona test battery (Edgin et al, 2010)
- Broad social and cognitive function measures
 (Zigman et al 2008)
 - Working group on assessment of aging and dementia in DS (Ayward and Burt, 2000)

Factor analysis of neuropsychological tests and domain correlations



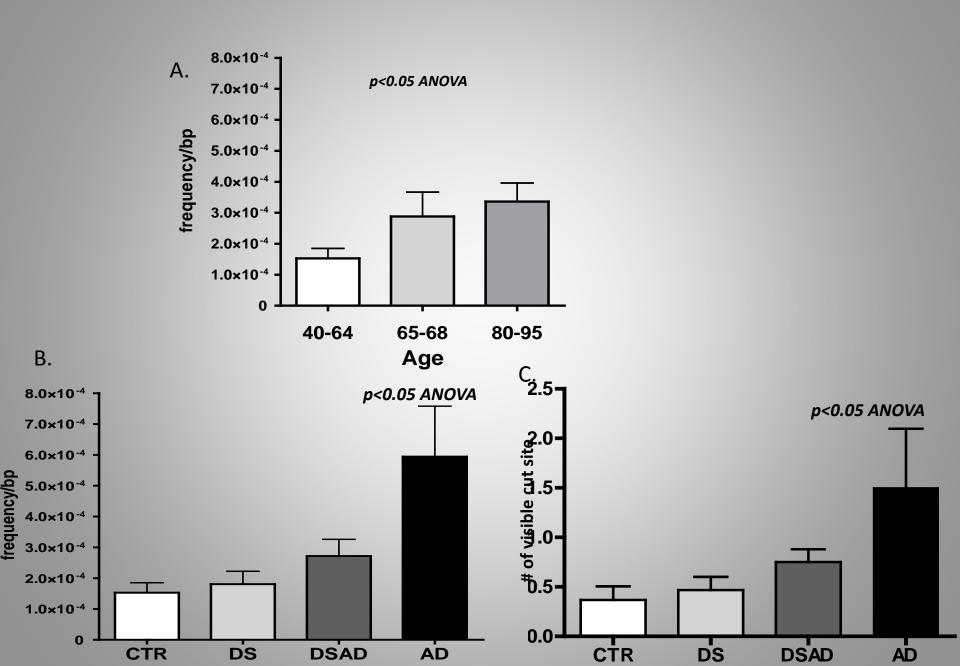


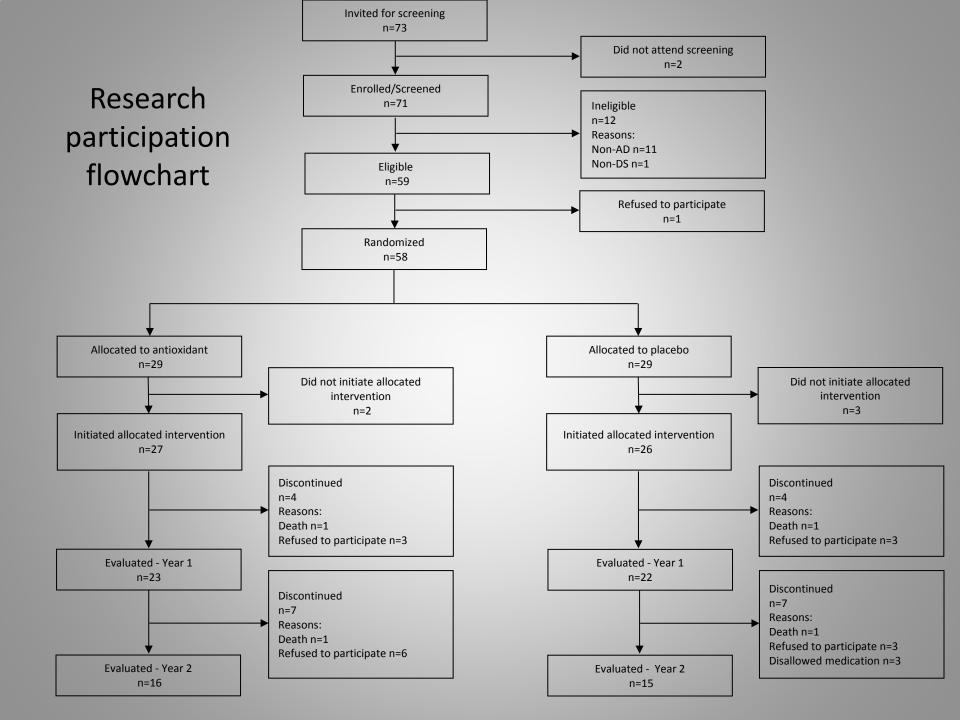
Beta-amyloid
Deposition in Dogs:
Comparison with
Human Brain

Oxidative damage is a key feature of the aged canine brain

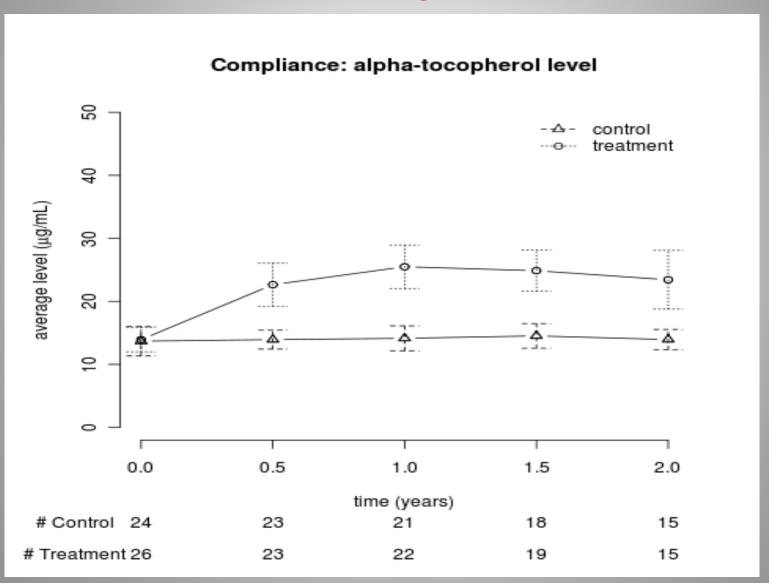
Mitochondria and Oxidative Stress in Down syndrome (Coskun et al)

 Control region mutations seen in brain and peripheral tissues from individuals with DS, DS+AD, and AD in the general population





Alpha-tocopherol Level in Plasma shows compliance with regimen



Considerations

 Future clinical trials need to address health disparities in DS and AD

 Telemedicine is the use of health care technology when distance separates the doctor and patient

Telemedicine



TM program UCI 2001-PRESENT

2100 clinics

8400 consults

California Center for Connected Health

California Telehealth Network

Telemedicine Screening for Dementia in DS

Telemedicine Screening for Dementia in DS

Subjects identified	358
Subjects screened	334
Subjects screened positive	97
Subjects declined to participate	24
Subjects examined	37
Subjects diagnosed with dementia	8
Subjects placed on medication therapy	8
Subjects diagnosed with a pseudodementia	4

UCI Down Syndrome Team

- Eric Doran, MS-Program Manager
- Nina Movsesyan, PhD-Research Coordinator
 - Anne Tournay, MD-Neurologist
 - Mindora Totoui ,MD, PhD-Neurologist
 - Pinar Coskun, PhD-Mitochondria Studies
 - David Walsh, PhD-Psychologist
- Supported in part by HD25912, HD065160, AG16572; State of California

Federal Resources

Andrew Morris, MPH
Administration on Intellectual and Developmental Disabilities
Administration for Community Living

E-mail: andrew.morris@acl.hhs.gov

Phone: 202-690-5985

AIDD Resources

- AIDD programs
 - University Centers for Excellence on Developmental Disabilities
 - Have dementia related grants and research
 - Protection & Advocacy
 - Legal and advocacy services for people with disabilities
 - Developmental Disability Councils
 - Policy and advocacy resources
 - Projects of National Significance

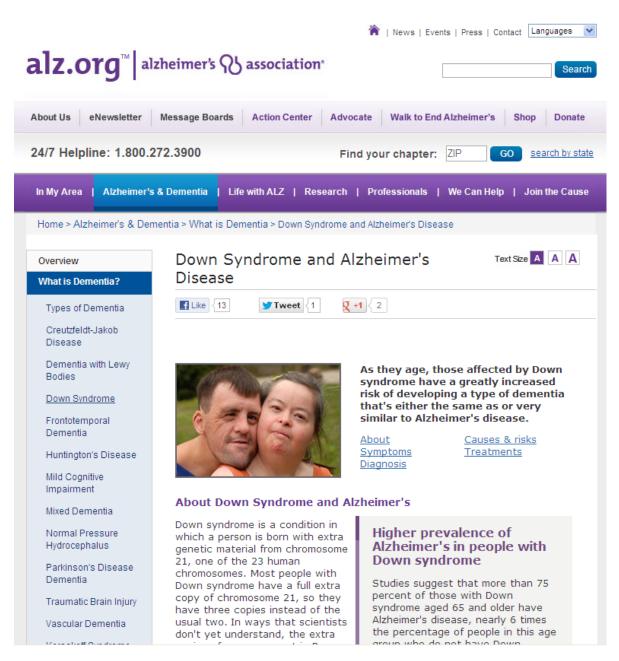
ACL and Resources

- Alzheimer's Disease Supportive Services Program
 - Supports efforts to expand the availability of community-level supportive services for persons with Alzheimer's and their caregivers and improve the responsiveness of the home and communitybased care system to persons with dementia. Includes translation of evidence-based interventions into effective supportive service programs at the community level.

ACL and Resources

- National Alzheimer's Call Center
 - National information and counseling service for persons with Alzheimer's disease, their family members, and unpaid caregivers. Available in 56 states and territories, 24 hours a day, 7 days a week, 365 days a year, the Call Center provides expert advice, care consultation, information, and referrals nationwide, at the national and local levels.

National Alzheimer's Contact Center



- Call 800-272-3900
- Staffed 24/7
- Information
 also available
 on-line, via
 email,
 message
 boards, etc.

ACL and Resources

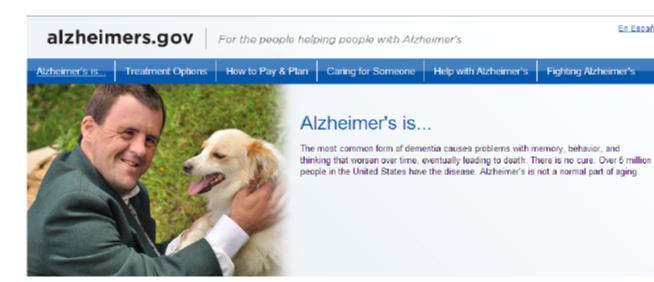
- National Family Caregiver Support Program
 - Funds a range of supports that assist family and informal caregivers to care for their loved ones at home for as long as possible. The program supports five services: information to caregivers about available services; assistance to caregivers in gaining access to the services; individual counseling, organization of support groups, and caregiver training; respite care; and supplemental services.
 - Go to http://eldercare.gov to find program specifics for local areas

ACL and Resources

- Lifespan Respite Care Program
 - Support, expands, and streamlines the delivery of planned and emergency respite services while also providing for the recruitment and training of respite workers and caregiver training and empowerment.

http://alzheimers.gov/

http://alzheimers.gov/down_syndrome.html



Home / Alzheimer's is... / Alzheimer's and Down Syndrome

Symptoms

Alzheimer's

Alzheimer's Stages & Changes

Impairment

Alzheimer's and Down Syndrome

Alzheimer's and Down Syndrome

Alzheimer's disease occurs three to five times more often among people with Down syndrome than the general population. People with Down syndrome are also more likely to develop Alzheimer's disease at a younger age than other adults.

As with all adults, advancing age also increases the chances that a person with Down syndrome will develop Alzheimer's disease. Estimates vary, but it is reasonable to conclude that 25 percent or more of people with Down syndrome who are older than 35 show clinical signs and symptoms of Alzheimer's-type dementia.

However, it is important to note that not everyone with Down syndrome develops Alzheimer's symptoms.

Is it Alzheimer's Disease? @

Down Syndrome and Alzheimer's Disease &

Dementia and Intellectual Disabilities (PDF) &

Important Links

En Español

The NIH Alzheimer's Disease Education and Referral Center:

Information about symptoms at each stage and how the disease progresses

The Memory Loss Tapes ®

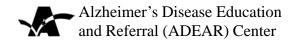
What is Dementia?

ACL Alzheimer's Page

http://www.aoa.gov/AoARoot/AoA Programs/H
PW/Alz Grants/index.aspx, includes the following:

- Information on ADSSP
- Links to prior webinars on various dementiarelated topics





http://www.nia.nih.gov/alzheimers



NIA's Alzheimer's Disease Education and Referral (ADEAR) Center

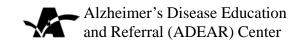
1-800-438-4380

Mon-Fri, 8:30 am-5:00 pm Fastern Time

adear@nia.nih.gov

- Focus on research-based information
- Referral to government and organization resources





http://www.nia.nih.gov/alzheimers/alzheimers-disease-research-centers#adcs

Alzheimer's Disease Research Centers

The National Institute on Aging funds Alzheimer's Disease Centers (ADCs) at major medical institutions across the U.S. Researchers at these Centers are working to translate research advances into improved diagnosis and care for Alzheimer's disease (AD) patients while, at the same time, focusing on the program's long-term goal—finding a way to cure and possibly prevent AD.

Areas of investigation range from the basic mechanisms of AD to managing the symptoms and helping families cope with the effects of the disease. Center staff conduct basic, clinical, and behavioral research and train scientists and health care providers who are new to AD research.

Although each center has its own unique area of emphasis, a common goal of the ADCs is to enhance research on AD by providing a network for sharing new ideas as well as research results. Collaborative studies draw upon the expertise of scientists from many different disciplines.

For patients and families affected by AD, the ADCs offer:

- Diagnosis and medical management (costs may vary—centers may accept Medicare, Medicaid, and private insurance).
- · Information about the disease, services, and resources.
- Opportunities for volunteers to participate in drug trials, support groups, clinical research projects, and other special
 programs for volunteers and their families.

Some ADCs have satellite facilities which offer diagnostic and treatment services and research opportunities in underserved, rural, and minority communities.

National NIA-funded AD resources are listed at the end of the directory.

For more information, contact any of the centers in the directory below. The directory is also available in PDF format (253K).

Find an Alzheimer's Disease Center (ADC): Click on a city name in the map below or browse the list of ADCs by State.





NIA-funded Alzheimer's Disease Centers (ADCs):

- ADCs conduct research to improve diagnosis and care and test treatments
- Help with obtaining diagnosis and medical management
- Opportunities to participate in research





http://www.nia.nih.gov/alzheimers/clinical-trials

NIA ADEAR Search for Alzheimer's Clinical Trials

Find trials by:

- Location
- Eligibility criteria
- Drugs tested
- Featured trials
- ADEAR phone support
 1-800-438-4380
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Slides, audio and transcript for 2013 webinar series will be available under Resources and Useful Links at:

http://www.aoa.gov/AoARoot/AoA_Programs /HPW/Alz_Grants/index.aspx