

Alzheimer's Dementia in Down Syndrome: A Clinicians Perspective Dennis McGuire Ph.D.,

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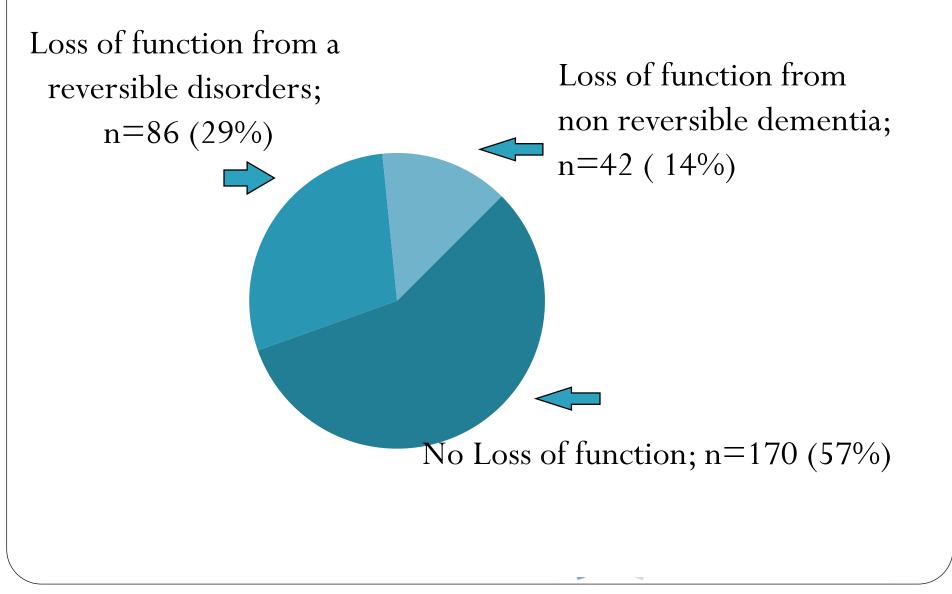




For the past 25 years
* At the Chicago ADSC & Denver Adult Down Syndrome Centers
* We have seen close to 6000 people
* & Diagnosed over 450 people with

Alzheimer's Dementia

Clinical Sample ADSC, all over 40; (n=298)



Loss of function due to reversible and nonreversible disorders, all over 40; n= 128

> Loss of function from a non-reversible dementia; n=42 (32.8%)

Loss of function from a reversible disorders ; n=86 (67.2%)

For older Adults with Down Syndrome (Older than 40) Alzheimer's is a Diagnosis of exclusion

- Loss of function is due to reversible causes in a majority of cases (@ 60%)
- Clinicians must find any and all possible health or psychosocial causes of a loss of function
- Before making a diagnosis of a non-reversible dementia



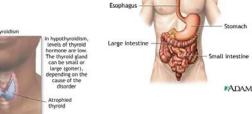
Change in Function : Alzheimers. Dx of exclusion

Rule out

- Health conditions (Hypo-thyroid; sleep apnea; celiac; etc)
- Mental Health (depression, OCD, trauma, etc)
- Life stage changes & transitions: Loss of significant others etc.
- Environmental stressors (home, school, work)







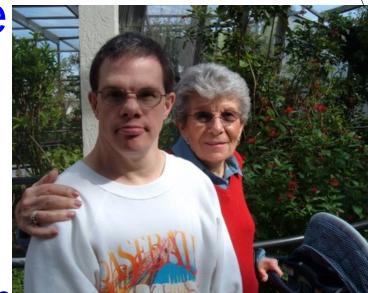
Process of excluding other causes is not an easy task: Huge overlap Depression & Alzheimer's

- Symptoms of withdrawal, loss of interest and participation in activities
- For example: Is he not brushing his teeth...?
- Depressed & does not care?
- Or cannot remember how (Memory?)



"Stubborn-Compulsive Behaviors "Grooves"

- Set patterns of behavior
- Can be very adaptive
- Under stress a 'groove' can become an 'obsession or compulsion'
- Can be very odd and unusual
- Easily misinterpreted as alzheimer's
- But Obsessions or compulsions are conduits For <u>any stressors</u>
- Health, mental health, Life change



All over the internet "In people with DS changes in overall function, personality and behavior...

- May be more common early signs of Alzheimer's
- Than memory loss or forgetfulness"
- "Behavior or Personality changes",
- Are indicators
- Of every other problem or issue
- Those causes representing 60% of the loss of function



Cognitive Testing is also of limited value

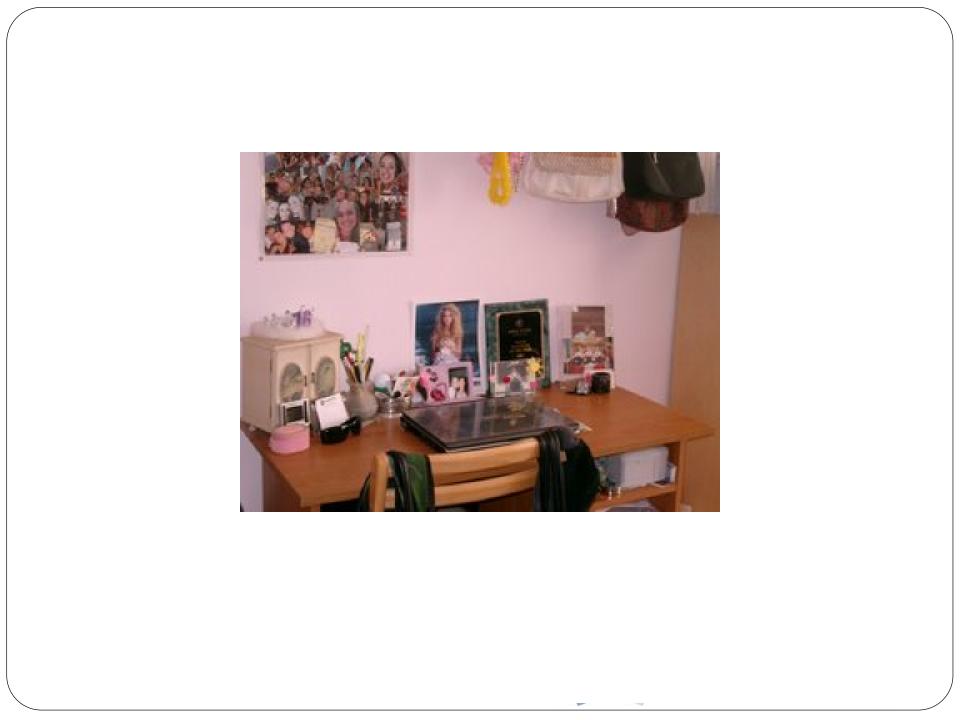
- Results of Cognitive assessment tools
- Are normed on general population
- "Minimum value" floor effect" in the tests which affect most people with DS
- For most people with DS

Results Do not distinguish differences in person's ability below that minimal value/score.



But (in 27 years of practice ADSC) Found an interesting finding: People with DS have Photographic visual memory

People remember past people, places and events in great detail
And in living color



Best Diagnostic <u>"Instrument</u>" for Alzheimer's Dementia in Persons with DS:

- Have an experienced clinician ask
- Person/s sharing the day to day life with person with DS
- About this "photographic memory"



Example Linda 57: Had excellent expressive & adaptive skills prior to onset of Alzheimer's dementia

Linda's unusual early memory changes
Forgetfulness (lost keys, her lunch, glasses, etc)



Caregiver and Environmental Issues



- Growing sense of concern by people <u>who really</u> <u>knew her</u>
- The changes observed were highly unusual for her
- Because of her superb visual memory
- She never seemed to lose or forget anything
- Important early marker
- Example of the "here after"



Caregiver and Environmental Issues: Early Up and Down Course



Some days on (focused, sharp, plugged in)
Some days off (unfocused, confused)
May lead many to believe the changes noted are behavioral (oppositional or willful)
In fact: they are typical of AD course

Caregiver and Environmental Issues: Denial



- Very difficult for many significant others
- Safety issues may need to be stressed
- Wanderers (alarms needed on doors)
 - Close monitoring in public places
- One benefit/deficit of DS (compared to): Existing depth perception problems worsen (Less likely to wander; but also more difficulty getting in vans etc)

Most effective care: "Anchors"

- Small group of caregivers
- Providing one on one care
 We found that:
- People maintained skills longer
- This greatly helps to minimized anxiety, fear & anger

