General Aging in Intellectual and Developmental Disabilities

Aging with Down Syndrome

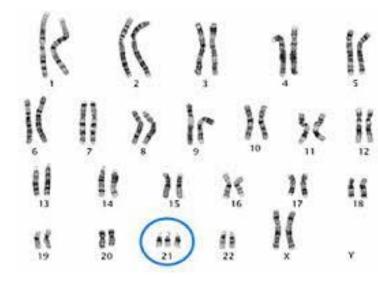
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Accelerated Aging in Down Syndrome (DS)

- DS is the result of 3 copies of chromosome 21
- Multiple genes on chromosome 21 have also been linked to middle-aged and older adults showing changes of premature or "accelerated" aging



Source: www.hhmi.org





Common Conditions in Older Adults with DS

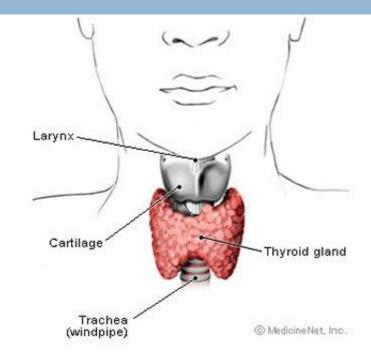
- Alzheimer's disease
- Hypothyroidism
- Sensory deficits
 - Early/aggressive cataracts
 - Hearing loss
- Early menopause
- Atlantoaxial instability
- Cervical spine disease
- Obstructive sleep apnea
- Osteoarthritis
- Decrease in functional ability
- Osteoporosis
 - Celiac disease



Used with permission from the National Down Syndrome Society, Aging and Down Syndrome Guidebook; copies available at no charge, info@ndss.org.

Hypothyroidism

- Thyroid dysfunction is very common in with Down syndrome
- Can lead to symptoms of: fatigue, men sluggishness, weight fluctuations and irritability
- Detected via blood test
- Treated with oral replacement





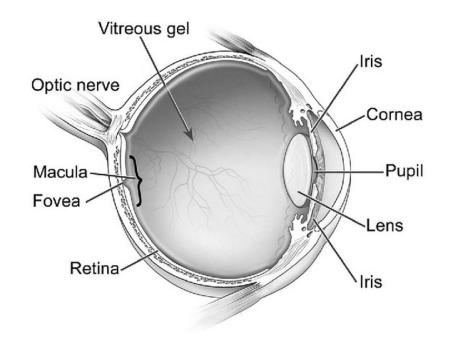


Sensory Losses

- Vision impairment:
 - Early/aggressive cataracts
 - Keratoconus
- Hearing impairment:
 - Conductive hearing loss
 - Small ear canals, wax impaction
- Frequently mistaken as stubbornness, confusion, disorientation

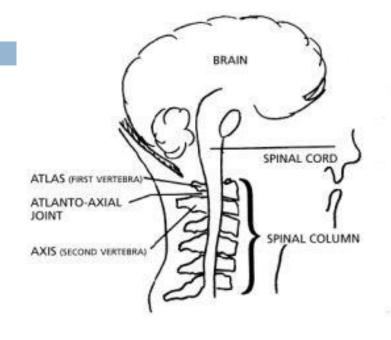


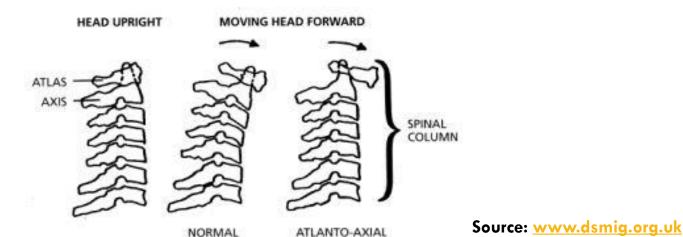
Correctable! Treatable!





Atlantoaxial Instability and C-spine Concerns





INSTABILITY





Atlantoaxial Instability and C-spine Concerns

- Gait disturbance
- Spasticity
- Change in bowel or bladder function
- Pain
- Screening x-rays recommended in adulthood
- More expert investigation if new/sudden change in symptoms





Obstructive Sleep Apnea

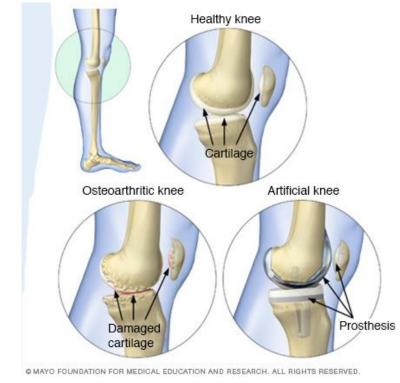
- Signs include: snoring, gasping noises, daytime sleepiness, morning fatigue, difficulty getting out of bed, excessive napping and fragmented sleep
- Undiagnosed or untreated apnea leads to symptoms of irritability, poor concentration, behavior changes, impaired attention, as well as strain on heart/lungs
- Diagnosis: sleep study





Osteoarthritis

- Hyperflexibility plus wear-and-tear
- Obesity
- Pain, limited mobility, decreased participation in activities
- Misinterpreted as confusion, behavioral changes
- Pain reporting can be variable



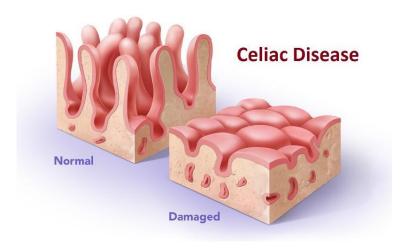
Source: www.mayoclinic.org





Celiac Disease

- Autoimmune disease due to reaction to wheat/gluten products
- Causes damage to lining of intestine, poor absorption of nutrients
- Higher prevalence in adults with DS
- Can be screened via blood test
- Gl referral to confirm diagnosis



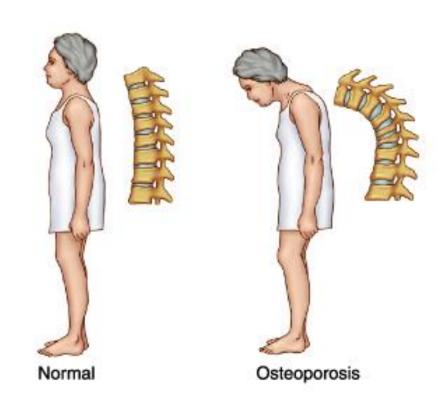
Source: www.ei-resource.org





Osteoporosis

- Bone thinning leads to fracture
- Risk factors
 - Immobility
 - Low body mass
 - Family history of osteoporosis
 - Early menopause
 - Longtime exposure to certain antiseizure medications
- Screened via bone density test



Source: www.mdguidelines.com





Obesity and Functional Decline

- Decreased metabolism in adu
- Inconsistent access to exercis
- Variability in dietary options au choices
- Changing culture to change b
- Role modeling healthy habits is good for everyone involved (caregivers too!)







Additional Webinars on Aging with IDD

General Aging in Intellectual and Developmental Disabilities

- Understanding Age Related Changes
- The Role of Polypharmacy
- Identifying and Assessing Pain
- Behavior Related Changes and Aging in Adults with IDD
- Health Promotion and Aging in Adults with IDD
- Mobility and Aging in Adults with IDD
- Aging with Down Syndrome
- Aging and Cerebral Palsy

Dementia and Intellectual and Developmental Disabilities

- Introduction to Dementia and Aging with IDD
- Early Evaluation of Dementia and Alzheimer's Disease
- Stages of Alzheimer's Disease
- Applying the Knowledge to Dementia Caregiving and Caregiver Support
- Caregiving in Action: Case Studies and Practical Tips





Additional Aging with IDD Resources

Massachusetts Department of Developmental Services (DDS) www.mass.gov/eohhs/gov/departments/dds/aging-with-id.html

Center for Developmental Disabilities Evaluation & Research http://shriver.umassmed.edu/cdder/aging_idd_education





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