Pediatric Healthcare Guidelines from 12-21 years

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American Academy of Pediatrics Health Supervision for Children and Adolescents with Down Syndrome

Guidelines were first created in 1994. They were revised in 2011, and most recently in 2022.

https://publications.aap.org/pediatrics/article/doi/10.1542/peds.2022-057010/186778/Health-Supervision-for-Children-and-Adolescents



Concerns throughout Childhood

From ages 12 to 21 years there are common issues that your child's provider will evaluate each year through a history, and physical exam.

Testing includes assessment of hearing hearing and vision.

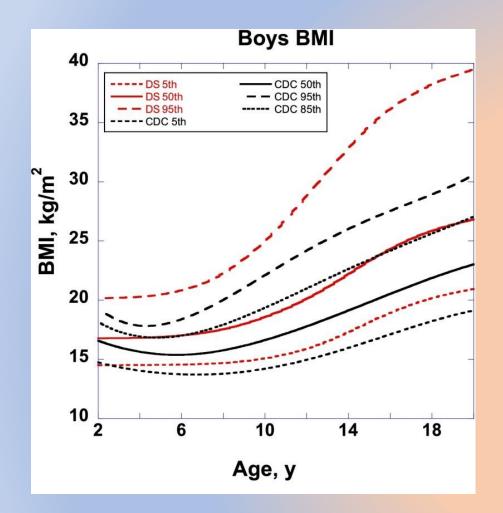
Vaccines are per the usual schedule – people with Ds are at high risk from respiratory infections so it important to discuss COVID, flu, and pneumonia vaccines with the provider

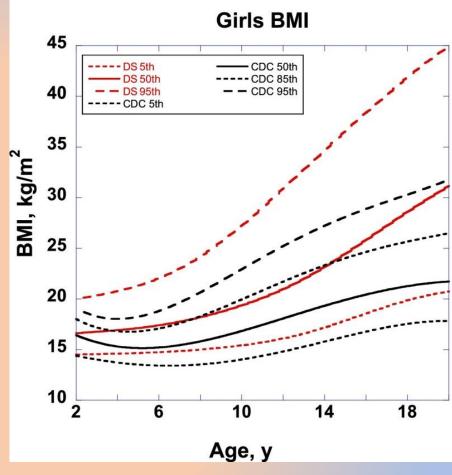
Nutritional Status

Monitor weight

Look at BMI on the chart not specifically for people with Ds to gauge weight status







Pediatrics. 2016 Oct; 138(4): e20160541.

doi: 10.1542/peds.2016-0541



Many teens and adults with Ds are overweight or obese and that puts them at risk for medical problems such as sleep apnea, type 2 diabetes, and joint problems

A healthy diet and regular exercise are important to prevent weight gain

A complete blood count and iron studies are recommended yearly



Obstructive Sleep Apnea

Symptoms can include:

Snoring

Restless sleep

Daytime sleepiness

Nighttime awakening

Behavior problems

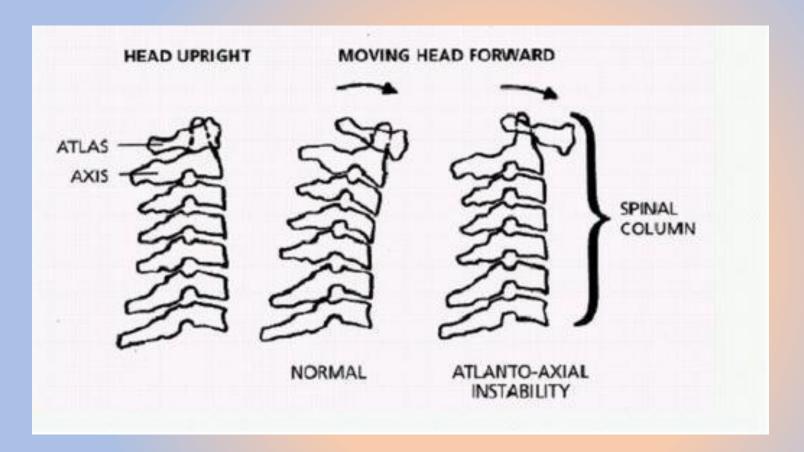
Abnormal sleep position

Diagnosed by a sleep study

Usually managed by an ENT specialist



Atlantoaxial instability



http://medcarepediatrics.blogspot.com/2013/04/atlanto-axial-instability-and-children.html



AAI Precautions for All People with Down syndrome

Avoid excessive flexion or extension of the neck during any, anesthetic, surgical or radiologic procedure to minimize risk of spinal cord injury

Avoid trampoline use unless it is part of a training program with appropriate supervision and safety measures

Participation in contact sports such as football, soccer, and gymnastics, places children at risk for spinal cord injury



Atlantoaxial Instability (AAI)

From the American Academy of Pediatrics

"Contact physician immediately for an x-ray of the neck in neutral position if your child has:

- Change in how he or she walks
- Change in how he or she uses arms/hands
- Change in bowel or bladder control
- Head stays tilted
- Neck Pain
- New onset weakness
- Decreased activity level or function

If the x-ray is abnormal or symptoms persist, the child should be referred as soon as possible to a pediatric neurosurgeon or pediatric orthopedic surgeon experienced in managing atlantoaxial instability."

https://www.healthychildren.org/English/health-issues/conditions/developmental-disabilities/Pages/Atlantoaxial-Instability-in-Children-with-Down-Syndrome.aspx



Cardiac Issues

Follow up on congenital heart issues

Be aware that **new** conditions with heart valves can occur Symptoms can include: tiring more easily shortness of breath with exercise a new murmur or sound found when listening to the heart may need evaluation with an echocardiogram



Autoimmune diseases

Celiac disease – screen by history
lab work for TTG IgA and quantitative IgA if symptoms

Thyroid disease – lab work for TSH every year

Type 1 diabetes

Alopecia

Juvenile Idiopathic Arthritis



Skin Conditions

https://downsyndromecenter.libsyn.com/94-skin-conditions-in-down-syndrome-with-dr-jillian-rork
https://downsyndromecenter.libsyn.com/95-skin-conditions-in-down-syndrome-part-2-with-dr-jillian-rork

Dry skin

Pimples and Boils

https://adscresources.advocatehealth.com/folliculitis-and-boils-in-people-with-down-syndrome/

Hidradenitis suppurativa https://pedsderm.net/site/assets/files/1028/spd edi hsdownsyndrome color web.pdf



Neurologic Issues

Monitor development and behavior

Seizures

Moya Moya



Common Mental Health Concerns

Behavior concerns - important to rule out a medical cause https://adscresources.advocatehealth.com/resources/the-groove

Attention Deficit Disorder

Anxiety

Depression

The guidelines recommend that with psychotropic medications start at the lowest dose and change the dose according to the patient's response. Start low and go slow. People with Ds can be more sensitive to medications.



Regression

https://dsmig-

<u>usa.org/resources/Documents/21DSMIG_Regression%20in%20Persons%20with%20Down</u>%20Syndrome_0928.pdf

https://www.frontiersin.org/articles/10.3389/fneur.2022.940175/full?&utm_source=Email_to_authors &utm_medium=Email&utm_content=T1_11.5e1_author&utm_campaign=Email_publication&field=&journalName=Frontiers_in_Neurology&id=940175_

https://jneurodevdisorders.biomedcentral.com/counter/pdf/10.1186/s11689-022-09446-w.pdf

https://www.dsrf.org/resources/the-lowdown-podcast/reversing-course-down-syndrome-and-regression/



Transition to Adolescence and Adulthood

Encourage increasing independence for activities of daily living including hygiene, and dental care

DSANEO program on Self Care, Dec 7, 6:30-8:00 RSVP to Debbie@dsaneo.org

https://www.ohiof2f.org/cleveland-transition-bootcamp-booster-sessions/

https://adscresources.advocatehealth.com/bathing-and-showering-tips/

https://adscresources.advocatehealth.com/toilet-hygiene/



Puberty

Timing of puberty is not delayed

Period management

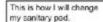
https://adscresources.advocatehealth.com/use-of-birth-control-in-women-with-down-syndrome/

https://adscresources.advocatehealth.com/menstrual-hygiene/

https://www.nytimes.com/wirecutter/reviews/
thinx-period-panties/



Story About How to Change My Pad





I will go to the bathroom for privacy.



I can keep clean pads and underwear in a bag so I can bring the supplies to the bathroom with me.



When I go to the bathroom, I will pull down my pants and my underwear.



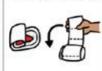
will sit on the toilet.



I will take the dirty pad out of my underwear.



I will fold it in half so I do NOT see the blood. Then I will wrap it in tollet paper.



I will throw the pad and toilet paper in the garbage can,



I will NOT throw it into the toilet.



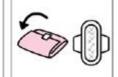
I will make sure there is no blood on my underwear. If there is, I will need to put on clean underwear.



I will get a new, clean sanitary pad out of my bag.



I will open the wrapper and take the pad out.



I will remove the paper so I can see the sticky tape.



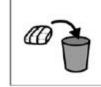
I will put the clean pad in my underwear with the sticky side touching my underwear.



I will make sure the pad sticks to my underwear.



I can throw the paper away in the garbage can.



I will pull up my underwear and pants.



I will take my bag of supplies with me when I leave the bathroom.



I will wash my hands.



If I have questions, I can ask my mom.









Terri Couwenhoven resources

Books:

A Girls' Guide to Growing Up Choices & Changes in the Tween Years

The Boys' Guide to Growing Up Choices & Changes During Puberty

Podcasts:

Puberty and Sexuality Issues, Part 1

Puberty and Sexuality Issues, Part 2



Relationships

https://adscresources.advocatehealth.com/dating-faqs/

https://adscresources.advocatehealth.com/search/people-with-

down-

syndrome/?sort=titleasc&category=Puberty%25c%25+Sexual+Healt
h%25c%25+and+Relationships



Safety including Social media and internet use

Boundaries

https://adscresources.advocatehealth.com/assets/1/13/Boundaries Handout.pdf?2599

DSANEO virtual programs Jan. 11 at 7 pm Feb. 8 at 7 pm

Monitor content and communication
https://adscresources.advocatehealth.com/assets/1/13/Rules for Social Media Safety.pdf?1645

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Transition to middle school, high school, and beyond

Important to include transition planning in the IEP

https://dodd.ohio.gov/your-family

https://dodd.ohio.gov/your-family/all-family-resources/4-find-your-county-board

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http://www.oacbdd.org/

https://www.dsaneo.org/families/adults-ages-18/ - Laurie Kowalski

https://www.ohiof2f.org/cleveland-transition-bootcamp-booster-sessions/Dou

https://thinkcollege.net/

Important Concepts to Consider for People Approaching age 18

Guardianship vs power of attorney

https://www.disabilityrightsohio.org/guardianship-frequently-asked-questions

https://www.ohiolegalhelp.org/



Financial Considerations

Ohio SSI/Medicaid

https://www.ssa.gov/benefits/ssi/

https://www.ssa.gov/pubs/EN-05-11000.pdf

https://www.ssa.gov/ssi/text-understanding-ssi.htm

https://www.ssa.gov/disabilityresearch/wi/medicaid.htm

https://codes.ohio.gov/ohio-revised-code/section-1751.14

Stable accounts

https://www.redtreehouse.org/resources#search/view-resource-details/59cfdbfed07b9f093ae41380/

Waivers

https://dodd.ohio.gov/waivers-and-services/waivers

Estate Planning

https://www.frnohio.org/resources/listing/special-needs-trusts-and-able-accounts



DSANEO Parent webinar about SSI, Medicaid, Waivers and Trusts.

Melissa Yasinow from Hickman and Lowder

January 23, 2023 6:30-8:00pm on Zoom

RSVP to Laurie@dsaneo.org or Debbie@dsaneo.org



https://aap2.silverchaircdn.com/aap2/content_public/journal/pediatrics/149/5/10.15 42 peds.2022-057010/3/peds 2022057010supplementarydata.pdf

Thank You



Text



Text



https://adscresources.advocatehealth.com/

https://adscresources.advocatehealth.com/assets/1/13/Boundaries Handout.pdf?2599

https://adscresources.advocatehealth.com/dating-faqs/









