

Disclosures

None

Objectives

- 1. Become familiar with how to find and evaluate screening recommendations.
- 2. Become familiar with the commonly recommended screenings for children and adolescents.
- 3. Review the recommended screenings for adults.
- 4. Discuss the technical aspects of screenings including billing and practical tools for physicians.

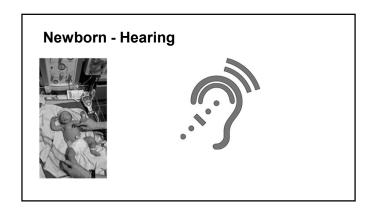
Common Abbreviations

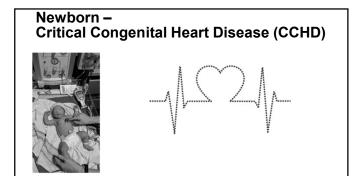
- USPSTF: United States Preventative Services Task Force
- AAP: American Academy of Pediatrics
- CDC: Centers for Disease Control
- AACE: American Academy of Clinical Endocrinologists
- AAFP: American Academy of Family Physicians
- ACP: American College of PhysiciansACC: American College of Cardiologists
- ACOG: American College of Obstetricians and Gynecologists
- ADA: American College of Obsterricians and Gynecologis
 ADA: American Diabetes Association
- AHA: American Heart Associations

Grade	Definition	Suggestions for Practice
A	The USPSTE recommends the service. There is high certainty that the net benefit is substantial.	Offer or provide this service.
в	The USPSTF recommends the service. There is high overtainty that the net benefit is moderate or there is moderate certainty that the net benefit is moderate to substantial.	Offer or provide this service.
c	The USPSTF recommends selectively offering or providing this service to individual patients based on professional judgment and patient preferences. There is at least moderate certainty that the net benefit is small.	Offer or provide this service for selected patients depending on individual circumstances.
D	The USPSTF recommends against the service. There is moderate of high certainty that the service has no net benefit or that the harms outweigh the benefits.	Discourage the use of this service.
l Statement	The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of the service. Evidence is lacking, of poor quality; or conflicting, and the balance of benefits and harms cannot be determined.	Read the clinical considerations section of USPSTF Recommendation Statement. If the service is offered, patients should understand the uncertaint about the balance of benefits and harms.











Newborn Screen (NBS)



- State specific
- Often done in the hospital before discharge
- Recommended for ALL babies, even home births

Newborn - Bilirubin

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- All newborns
 - Visually: Every 12 hours from birth until discharge
 - TcB or TsB at 24-48 hours or before discharge



Preventative visit screening

American Academy 6 Pediatrics Bright Futures.

Periodicity Schedule:

https://publications.aap.org/pediatriccar e/pages/periodicity-schedule

* I'll discuss minimum age but catch-up can be done at any age



Infancy	Early Childhood	Middle Childhood	Adole	scence
Prenatal	12 months	5 years	11 years	17 years
Newborn	15 months	6 years	12 years	18 years
3-5 days	18 months	7 years	13 years	19 years
1 month	24 months	8 years	14 years	20 years
2 months	30 months	9 years	15 years	21 years
4 months	3 years	10 years	16 years	
6 months	4 years			

Preventative Visits

- 1. Measurements
- 2. Sensory Screening
- 3. Developmental/Psychosocial
- 4. Examination
- 5. Lab screenings
- 6. Oral Health



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Measurements Weight ■ Length (0-2) or Height (≥2yr) Head Circumference (0-2) Weight for length (0-2) or Body mass index (≥2yr) Growth charts • WHO (0-2) CDC (≥2yr)

■ Blood pressure (≥3yr)

Meas	ureme	nts				
Age	Weight	Length/ Height	Head Circ	WFL/ BMI	Growth Chart	Blood pressure
		neight				
0-2 years	+	Length	+	WFL	WHO	
-	+ +	-	-	WFL BMI		

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Sensory Screening: Vision

- Yearly from 3 6 years
- Every other 8 15 years

USPSTF – grade B "vision screening at least once in all children aged 3 to 5 years to detect amblyopia or its risk factors."



Sensory Screening: Hearing



- Yearly from 4-6 years
- 8 year & 10 year
- Once between 11-14
- Once between 15-17
- Once between 18-21

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Developmental & Psychosocial

Development

- Surveillance at every visit
- 9, 18, 30 months

Autism

- 18 & 24 months



Developmental & Psychosocial

Age	Screen (96110)
9 month	Development
18 month	Development & Autism
24 month	Autism
30 month	Development



Developmental & Psychosocial



Postpartum depression screening 1mo, 2mo, 4mo, 6mo 96161 – Caregiver risk assessment

Depression & Suicide risk: 12-18 years (USPSTF, grade B) 96127 – Brief behavioral assessment Developmental & Psychosocial Anxiety screening: 8-18 years (USPSTF, grade B) Behavioral/Social/Emotional Screening at every visit

A. N. X. I. E. T. Y.

Developmental & Psychosocial

Substance Use - beginning adolescence

- Alcohol, Drugs, Tobacco
- · Grade B to counsel school-aged kids to prevent tobacco use

Abuse – "The USPSTF recommends that clinicians screen for intimate partner violence (IPV) in women of reproductive age and provide or refer women who screen positive to ongoing support services. (Grade B)"

Developmental & Psychosocial

H- Home

E- Education

HEADSS

- A- Activities
- **D** Drugs
- S- Sex
- **0-** 0ex
- S- Suicide

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Physical Examination

Infants – unclothed Older children – undressed/draped Chaperones – offered for genital or anorectal areas or female breast exams

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 Lead at 12 & 24 months (AAP & CDC, USPSTF deferred)
 Anemia – 12 months



Laboratory Screenings

Lipid disorders

- 1. Once 9-11
- 2. Once 17-21



Laboratory Screenings

- Syphilis asymptomatic at risk (grade A)
- Chlamydia & Gonorrhea
 - sexually active women 24yo or younger (grade B)
 - Sexually active women 25yo+ at risk (grade B)
- Hep B at increased risk (grade B)
- HIV pregnant, 15-65 yrs, younger adolescents at risk (grade A)



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Oral H	lealth	glad you my 4th tot can go h
Years" USPSTF fina	of Dental Caries in Children Younger than 5 Il recommendations Dec 7, 2021 tion Summary	/-h
Population	Recommendation	Grade
Children younger than 5 years	The USPSTF recommends that primary care clinicians prescribe oral fluoride supplementation starting at age 6 months for children whose water supply is deficient in fluoride.	в
Children younger than 5 years	The USPSTF recommends that primary care clinicians apply fluoride varnish to the primary teeth of all infants and children starting at the age of primary tooth eruption.	в
Children younger	The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of routine screening examinations for dental caries performed by primary care clinicians in	I

What NOT to screen

- Cervical cancer under 21 years
- Testicular cancer
- Genital Herpes
- Asymptomatic Bacteriuria





Harrison Adults Screenings for Non-Malignant Disease

Harrison Jackson MD, FACP Assistant Professor General Internal Medicine The Ohio State University – Wexner Medical Center

Outline

- Screenings with vital signs
- Screenings with social history
- Screening with sexual history
- Screenings with labwork and imaging
- Additional considerations



Blood Pressure Screening

- · Who: All adults 18 years and older
- How: Office Based Pressure Measurement (Manual or Automated)
- When:

 - Yearly (most people)
 Every 3 years (ages 18-39 with no risk factors)
- Source: USPSTF level A
- Note: Confirm diagnosis with multiple measurements

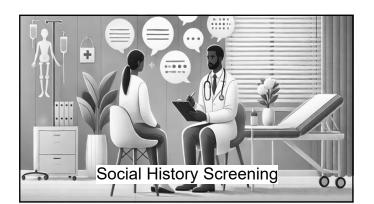


Obesity Screening and Weight Loss Counseling

 Who: All adults How: Body mass calculation based on height and weight. ■ Obesity defined as BMI ≥ 30 .

• When:

- BMI measurement at least annually Intervention:
 - Counseling and behavioral interventions
 Goal weight loss of >5%.
- Source: USPSTF level B



Tobacco Use Screening and Cessation

- · Who: all adults
- How: ask patient (as a vital sign, NCCN 3-question)
- When: at initial visit and periodically
- Source: USPSTF A. Also recommended by AAFP, ACP, and ACOG
- Intervention:
 - All patients: behavioral interventions and pharmacotherapy •
 - Men 65+: one time US screening for Abdominal Aortic Aneurysm (USPSTF level B) •



Alcohol Use Screening



- Who: all adults
- How: 1-3 item screening instruments (AUDIT-C, SASQ) •
- When: Establishment visit, subsequent intervals not defined
- Source: USPSTF level B
- Intervention: Counseling and pharmacotherapy

Unhealthy Drug Use

- Who: all adults
- How: Physician inquiry, NIDA. ASSIST
- When: Establishment visit, subsequent intervals not defined
- Source: USPSTF level B
 - Interventions (must be available): Behavioral intervention, counseling optionsPharmacotherapy



Depression and Anxiety Screening



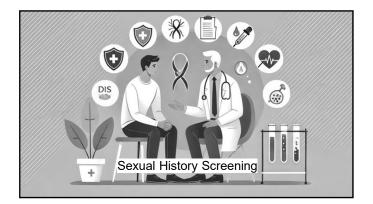
- · Who: all adults
- How: Screening tools such as PHQ-2 or PHQ-9, GAD-7
- When: Establishment visit, subsequently by clinical judgement
- Source: USPSTF level B
- Intervention:
 - Psychotherapy
 - Pharmacotherapy

Intimate Partner Violence

- Who: All women of reproductive age .
- How: Physician inquiry. Screening tools include HITS, PVS, and WAST
- When: Establishment visit and by clinical judgement
- Source: USPSTF level B
- Source. USPSTFTeVerB
 Intervention (must be available):

 Referral to support services that offered counseling, home visits and social services that address multiple risk factors
 Brief interventions and information provision generally not effective





Screening for Increased Risk of Sexually Transmitted Infections



- Who: All patients
- When: Establishment visit and Periodically
- How: Five Ps approach, SRS, SRBI
- Interventions: all persons at increased risk
 - Counseling on risk and prevention

HIV Screening

- Who: all adults
- How: immunoassay HIV-1/HIV2 antibodies & HIV-1p24 antigen When:

 - All adults: One time screening (USPSTF level A)
 With increased risk: yearly or more frequently
- Important Considerations:
 - Confirmatory testing availability Treatment/referral availability Pre-exposure prophylaxis .

 - .



Syphilis Screening

- Who: all adults at increased risk . (USPSTF level A)
- When: Initial visit and periodic
- How: two-step with treponemal antibody test and non-treponemal test .
- Consideration: doxycycline prophylaxis

Gonorrhea and Chlamydia Screening

- Who and when:
 - Women age 18 -24, with any sexual activity -Yearly (USPSTF level B)
 - Women age 25+, with increased risk Initial and periodic (USPSTF level B) Men at increased risk Initial and periodic (USPSTF level I but CDC recommended) •
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- How: Nucleic amplification test
 - Vaginal fluid preferable to urine in women
 - Other sites if indicated by sexual history

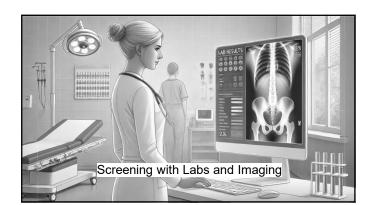
Hepatitis B Screening Who:



- All adults (CDC)
- When: Initial visit and periodically
- How: Hepatitis B surface antigen, surface antibody, and core antibody (CDC) .
- Intervention:
 - Confirmatory testing for positive results

Adults at increased risk (USPSTF level B)

- Vaccination for non-immune patients
- Consider vaccination confirmatory test in high risk groups



Hepatitis C

- Who: all adults
- How: Anti-HCV antibody test
- When: one time all adults age 18-79
- Source: USPSTF level B
- Confirmatory testing with HCV RNA PCR .





- Who: All adults 20 and older
- How: Fasting lipid panel
- Interval: at minimum
 - Age 20-39: at least every 4-6 years
 - Age 40+: initial and rescreening every 1-2 years
- Intervention:
 - Statin therapy for all adults age 40+ at elevated risk (USPSTF level B) .
- Source: AHA, NIH, USPSTF

Diabetes Screening

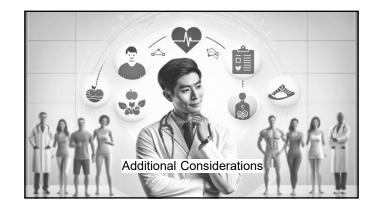
- Who: At minimum
 USPSTF: All adults age 35 to 70 with BMI ≥ 25
- ADA/AACE: all adults at age 45 or at any age with risk factors . How:
- fasting plasma glucose >126
 HgbA1c >6.5
 2 hour post glucose load level > 200
- When: at minimum ever 3 years
- Source: USPSTF level B, ADA, AACE
- Repeat/confirmatory testing



Osteoporosis Screening Who: postmenopausal women How: central dual-energy x-ray absorptiometry (DXA) of hip and lumbar spine • When: Post-menopause to age 65: if risk factors Age 65: all women .

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- Intervention:
- Dietary and Exercise counseling
 Pharmacotherapy consideration
- Source: USPSTF level B



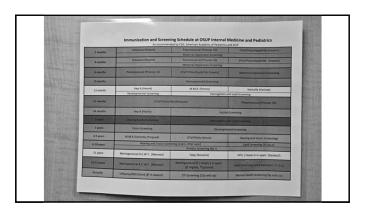
Pregnancy

- Altered Screenings
 - Depression and anxiety screening x 3 (ACOG) •
 - STI screenings (CDC)
 - All: STIs at first prenatal visit
 - High risk: third trimester HIV & Syphilis
 - Diabetes screening at 24-28 weeks with Oral glucose challenge (USPSTF level B)
- Reinforced screenings: Blood pressure, obesity, tobacco/alcohol/drug use, intimate partner violence
- Deferred screening: lipids, osteoporosis

Screening that are not recommended USPSTF Level D – recommended against EKG screening HSV serologic testing Carotid Stenosis screening USPSTF Level I – insufficient evidence to recommend for or against Urinalysis (with exception: pregnancy level B) Thyroid Celiac Disease Vitamin D Glaucoma Screening Hearing Loss Peripheral Arterial Disease Screening

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How do you keep track?



Improve Screening Rates

Care Coordination Strategies



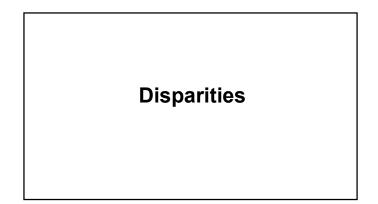
Inter-Visit Contact

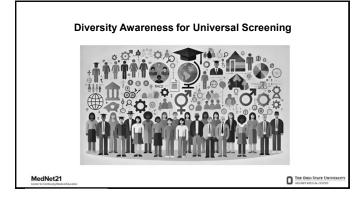


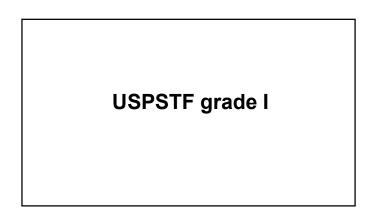
Billing & Coding

Service	Code	Description	
Mental Health Screen	96127	Brief emotional/behavioral assessment	
Postpartum Depression	96161	Caregiver risk assessment	
Health risk (eg substance)	96160	Health risk assessment	
Development Screen	96110	Developmental/behavioral screen	
Vision screen - Optotypes	99173	Bilateral quantitative visual acuity screen	
Vision screen - Instrument	99177	Instrument-based ocular screening, on- site analysis	
Hearing screen	92552	Pure tone audiometry through air	

Modifiers	Description	
25	Separate, significant service on same day	
33	Preventative service	
59	Multiple units	







Resources

- Newborn screening: https://newbornscreening.hrsa.gov/about-newbornscreening/recommended-uniform-screening-panel
- Bright Futures/AAP Periodicity Schedule: https://publications.aap.org/pediatriccare/pages/periodicit y-schedule
- USPSTF: https://www.uspreventiveservicestaskforce.org/uspstf/ CDC: <u>https://www.cdc.gov/</u>

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Pediatric References (in addition to resources)

Performance of the section of the s