UPDATE: JULY 2017

Comparison of the Adolescent Well Care Visit and Pre-participation Physical Evaluation





TRANSFORMATION CENTER
Health Policy & Analytics Division













Executive summary

Comparison of the Adolescent Well Care Visit and Pre-participation Physical Evaluation was created through a partnership between the Oregon Health Authority and the Oregon School Activities Association to help organizations understand the differences between the Adolescent Well Care Visit (AWV) and the Pre-participation Physical Evaluation (PPE), also known as a "sports physical." These organizations include Oregon's school districts, schools, athletic departments, school-based health centers, adolescent primary care providers, private insurers and coordinated care organizations. Student athletes benefit from both the AWV and the PPE:

- The AWV has a stronger sense of development and overall health and well-being.
- The PPE has focused screening for medical conditions or injuries (primarily cardiovascular and musculoskeletal, respectively) which may be worsened by athletic activity (a sample PPE form has been included on pages 9-11).

This publication emphasizes that schools and providers should encourage student athletes to complete both evaluations as recommended. There is enough overlap between the two methods that a health care provider could complete both assessments at the same time. The table* provides points of comparison to maximize coordination in parental involvement, the health information sought during a pre-visit questionnaire, and the physical exam. It shares recommendations for providers on modifying an AWV or PPE to include elements of both. This coordination will help limit a student's absence from school and sports, and will ensure exams cover all aspects of a student's health during an Adolescent Well Care visit or sports physical.

	Adolescent Well Care Visit (AWV)	Pre-participation Physical Evaluation (PPE) "Sports Physical"		
Timing	n/a	Recommend at least six weeks before the start of the sports season. Can take place as early as May to enable use for summer camps.		
Periodicity	Annually	Once every two years (state law)		
ProviderMD, DO, PA, NP, NDMD, DO, PA, NP, ND,		MD, DO, PA, NP, ND, DC		

* The content for this table was sourced from best practices presented in:
Adolescent Well Care Visit (American Academy of Pediatrics' *Bright Futures: Guidelines for Health Supervision of Infants, Children, and Adolescents*): https://brightfutures.aap.org/materials-and-pocket-guide/Pages/default.aspx and Bright Futures Adolescence Tools: https://brightfutures.aap.org/materials-and-tools/tool-and-resource-kit/Pages/adolescence-tools.aspx

Pre-participation Physical Evaluation (American Academy of Pediatrics' *PPE: Physical Evaluation, Fourth Addition*): https://www.aap.org/en-us/about-the-aap/Committees-Councils-Sections/Council-on-sports-medicine-and-fitness/Pages/PPE.aspx

	Adolescent Well Care Visit (AWV)	Pre-participation Physical Evaluation (PPE) "Sports Physical"			
Parental Involvement	Parents are encouraged to be involved in the AWV. The patient can be alone, however, for some adolescent visits. Pre-visit questionaries' are confidential based on applicable Oregon law.	Parental involvement needed to ensure accuracy of medical history. Physical and risk screening completed confidentially.			
Goals/Priority	First Priority: Address concerns of adolescent and parent Bright Futures Discussion Priorities: 1. Physical growth and development 2. Social and academic competence 3. Emotional well-being (coping, MH, sexuality) 4. Risk Reduction (tobacco, alcohol, pregnancy, STI) 5. Violence and injury prevention	 Primary goals: Screen for conditions that may be lifethreatening or disabling Screen for conditions that may predispose to injury or illness Secondary goals: Determine general health Serve as an entry point to the health care system Provide an opportunity to initiate discussion on health-related topics 			
Structure/ Components	 Pre-visit questionnaire and history (supplemental assessment) Developmental Observation: Observation of parent-child interaction Development surveillance School Performance Physical exam, screenings, and immunizations Anticipatory guidance 	 Medical history questionnaire Physical exam and screenings (includes confidential risk screening questions and some anticipatory guidance) Specialty exam (if needed) Optional: Immunization, education Clearance for activity 			
Pre-visit Questionnaire/ History Forms	Pre-visit includes discussion prompts based on Bright Futures priorities; screening questions on vision, hearing, TB, alcohol, drugs, cigarettes, sex/STI/pregnancy, and anemia; and growth and development questions. Supplemental questions follow Bright Futures priorities in detail (includes detailed questions on nutrition, emotional wellbeing, etc).	 General medical history Heart health (family and patient) Musculoskeletal Head injury or concussion Asthma Diabetes Medications Supplements Allergies Heat illness Missing organ Vision and eye injuries Nutrition and eating disorder Sickle cell Menstruation (anemia) PPE requires specific details in physical health history (including family history). Physical exam gets at risk behaviors influencing health in part. 			
Immunizations	Screening required: Consult with https://www.cdc.gov/vaccines/schedules/	Screening optional			

	Adolescent Well Care Visit (AWV)	Pre-participation Physical Evaluation (PPE) "Sports Physical"		
Highlighted Elements of Full Physical Exam and	1. Vitals: blood pressure, height, weight, BMI	Vitals: blood pressure, height, weight, BMI, pulse		
	2. Vision/Eyes: acuity (periodicity varies)	2. Vision/Eyes: acuity and pupil size		
Screenings	3. Skin: acne, acanthosis nigricans, atypical nevi, tattoos and piercings, signs of abuse, injury	3. Skin: MRSA, herpes simplex, signs associated with eating disorders		
	4. Musculoskeletal: examine back/spine	 Musculoskeletal: full general screen*/ upper extremity 		
	 Genitalia Females: Sexual maturity rating, visual observation for STIs, pelvic exam if warranted but by age 21 Males: Testicles for hernia, varicocele, masses; sexual maturity rating; and observe for STIs 	 Genitalia Females: NA unless part of health maintenance exam Males: (optional) Scrotum for hernia, varicocele, masses. (Not contraindicatied for athletics). 		
	Breasts: Females assessed for sexual maturity rating, clinical breast exam after age 20. Males: gynecomastia	6. Breasts: NA for PPE		
	7. ENT: Universal hearing screening (once in early, mid, and late adolescence)	 ENT: Hearing if signs of damage, oral ulcers, herpes, leukoplakia (tobacco), nasal polyps, deviated septum 		
	8. Cardiovascular: dyslipidemia (screen* at least once between age 17-21)	8. Cardiovascular: vitals, dynamic auscultation of heart, palpation of heart, physical exam for Marfan Syndrome*.		
	9. Anemia: if positive on risk screen	9. Anemia: check for eating disorders through visual observation of height, weight, ear, nose, mouth, throat, abdomen, and skin; and history of injury, neurological conditions, nutrition, and menstrual cycle.		
	 Tuberculosis: if positive on risk screen STIs: if sexually active HIV: universal at least once between age 15 and 18 Pregnancy: if sexually active without contraception, late menses, or amenorrhea Cervical Dysplasia: universal screen at age 21 Alcohol or drug use: universal risk assess Depression: universal screen Psychosocial/Behavior: universal assess Oral health: screen for fluoride supplementation up to age 16 	 Central Nervous System: Upper extremity, neck range of motion, reflexes. Pulmonary Exam (bronchospasm test, tobacco) Abdominal exam Risk Behavior: Stress, Depression, Feeling Safe, Tobacco, Alcohol, Drugs, Steroids, Supplements, Body Image 		
Anticipatory Guidance	Tied to Bright Futures priorities, and based on patient needs, developmental observation, and stage of adolescence	Related to reduction in risk of injury or sustained absence. Examples: warnings about PED use, teaching self-admin testicular exam, prevention strategies on MRSA		

 $[\]color{red}{*} \hspace{0.2cm} \underline{\text{http://www.osaa.org/sportsmedicine}}$

The state requires that a PPE take place every two years. This offers a unique opportunity for athletes disconnected from the health system to have a wellness exam. Athletes who see a primary care provider for annual check-ups have an opportunity to fulfill the PPE requirement. The following recommendations will help providers maximize care in the assessments.

Recommendations for Providers:

How to modify an Adolescent Well Visit to include all elements of a Pre-participation Evaluation.

- Use the AWV pre-visit screening questions recommended by Bright Futures on physical activity and hobbies. This will help you to broach the subject of school sports.
- Complete PPEs at least six weeks before the start of the sports season. This will allow time for any referrals and follow-up exams. Ideally, you will conduct PPEs in the late spring or early summer for students who participate in fall sports.
- If you know the adolescent to be an athlete, send the parents the comprehensive PPE medical history form prior to the visit. You can also have them obtain it online*.
 - If you do not have the form prior to the visit, then attempt to get a detailed past medical and family history at the visit. The student can fill out as much of the history form as possible. With consent of the adolescent, you or your medical assistant can call a parent to complete the history portion. Then you may review and sign-off on the PPE form. Studies show cardiovascular screening questions are more accurate if the parents help in providing the history.
- Make clear to the student that confidential information provided on the AWV
 pre-screening questionnaire will not be in the medical history form shared with
 the parent and school.
- Conduct focused (see above) examinations of the lung, abdomen, heart, and central nervous and musculoskeletal systems.
 - Provider should keep in mind specific recommendations for the cardiovascular/murmur exam, the two-minute musculoskeletal exam, the Marfan screen, and the concussion protocol. These are included on the second page of the OSAA Sports Physical Form found at http://www.osaa.org/sportsmedicine.

^{*} http://www.osaa.org/sportsmedicine

• Assure that you ask appropriate risk behavior questions. Risk behavior questions in the PPE are likely in an AWV.

How to modify a Pre-participation Physical Evaluation to include all elements of an Adolescent Well Care Visit.

- Assure a separate, confidential space is available. This way an athlete can feel comfortable discussing Bright Future's AWV topic areas.
 - This is especially important in an "assembly-line," "locker room," or "station-based" PPE (see Different Formats below).
- Provide previsit questions from Bright Futures/AWV to the student athlete. These can be topical conversation prompts at the time of the visit, for direct anticipatory guidance and to prompt additional physical screens.
- Provide additional screens as necessary (hearing, STIs, pregnancy, cervical dysplasia, and drug or alcohol use, etc.).
- Provide recommended vaccinations for athlete if available or advise to obtain from their primary care provider.
- Complete more thorough examinations of the genitals and breasts, as recommended for the AWV, if private setting is available.
- Based on screening, be prepared to provide pelvic exams which are recommended as needed by age 21.
- Ensure proper claims reporting for the Adolescent Well Visit.



Different Formats for Performing PPE or Sports Physicals

Not all "sports physicals" are equal. Timing, available personnel, and a community's resources, traditions and standards all determine how middle and high school athletes get clearance to participate in sports. Whenever possible, we recommend that athletes receive a sport physical (especially those combined with an Adolescent Well Visit) in an office-based setting, including a School Based Health Center or a patient's primary care home.

• The "office-based" examination: This type of exam allows privacy for history taking, examination and discussion of specific concerns. It allows for anticipatory guidance and health maintenance (including immunizations), as well as more (but not always sufficient) time. Ideally, the exam takes place in the athlete's medical home. This is where he or she is an established patient with a well-known medical history. An exam at a medical home can be combined with or qualify for an AWV exam.

Other sports physical formats will be less than ideal. In addition, these formats may not be conducive to providing a comprehensive well visit. Therefore, avoid the following formats when trying to complete both exams:

- The "station-based" examination: This is the most appropriate format when performing a mass sports physical at a school or clinic. Athletes proceed through a series of stations. Stations are for height and weight measurements, blood pressure reading, visual acuity, general exam, cardiovascular exam, orthopedic screening, and review of history and final clearance. Ideally, an additional station will focus on risks and behaviors. This can include mental health, sexual health and substance use issues. These topics can be sensitive in the non-medical environment and require provision of confidential space. Station-based exams require multiple volunteer licensed healthcare providers. You may need athletic trainers and coaches to coordinate logistics, if performed at a school.
- The "assembly-line" or "locker room" physical: A single provider screens a large number of athletes. This occasionally occurs in a medical office, but more often in the school locker room, cafeteria or gymnasium. Although sometimes necessary, you should avoid the assembly-line physical when possible. There is little time to review thoroughly the athlete's medical history. Additionally, it offers little to no privacy for the physical exam or a private discussion of the athlete's history or questions.

School Sports Pre-Participation Examination – Part 1: Student or Parent Completes

Revised May 2017

Date of birth: Sport(s): and supplements (herbal and nutritional) that you are currently taking. gy below. Foods Stinging Insects		
and supplements (herbal and nutritional) that you are currently taking.		
gy below.		
☐ Foods ☐ Stinging Insects		
s to.		
BONE AND JOINT QUESTIONS	YES	N
14. Have you ever had an injury to a bone, muscle, ligament or tendon that caused you to miss a practice, game or an event?		
15. Do you have a bone, muscle or joint problem that bothers you?		
MEDICAL QUESTIONS	YES	N
Do you cough, wheeze or have difficulty breathing during or after exercise?		
17. Have you ever used an inhaler or taken asthma medicine?		
18. Are you missing a kidney, an eye, a testicle (males), your spleen or any		
19. Do you have any rashes, pressure sores, or other skin problems such		
<u> </u>		
21. Have you ever had numbness, tingling, or weakness, or been unable to		
23. Do you or someone in your family have sickle cell trait or disease?		
24. Have you, or do you have any problems with your eyes or vision?		
25. Do you worry about your weight?		
26. Are you trying to or has anyone recommended that you gain or lose weight?		
28. Have you ever had an eating disorder?		
29. Do you have any concerns that you would like to discuss today?		
FEMALES ONLY	YES	N
		<u> </u>
32. How many periods have you had in the last 12 months?		
	BONE AND JOINT QUESTIONS 14. Have you ever had an injury to a bone, muscle, ligament or tendon that caused you to miss a practice, game or an event? 15. Do you have a bone, muscle or joint problem that bothers you? MEDICAL QUESTIONS 16. Do you cough, wheeze or have difficulty breathing during or after exercise? 17. Have you ever used an inhaler or taken asthma medicine? 18. Are you missing a kidney, an eye, a testicle (males), your spleen or any other organ? 19. Do you have any rashes, pressure sores, or other skin problems such as herpes or MRSA skin infection? 20. Have you ever had a head injury or concussion? 21. Have you ever had numbness, tingling, or weakness, or been unable to move your arms or legs after being hit or falling? 22. Have you ever become ill while exercising in the heat? 23. Do you or someone in your family have sickle cell trait or disease? 24. Have you, or do you have any problems with your eyes or vision? 25. Do you worry about your weight? 26. Are you trying to or has anyone recommended that you gain or lose weight? 27. Are you on a special diet or do you avoid certain types of food? 28. Have you ever had an eating disorder? 29. Do you have any concerns that you would like to discuss today? FEMALES ONLY 30. Have you ever had a menstrual period? 31. How old were you when you had your first menstrual period?	BONE AND JOINT QUESTIONS 14. Have you ever had an injury to a bone, muscle, ligament or tendon that caused you to miss a practice, game or an event? 15. Do you have a bone, muscle or joint problem that bothers you? MEDICAL QUESTIONS 16. Do you cough, wheeze or have difficulty breathing during or after exercise? 17. Have you ever used an inhaler or taken asthma medicine? 18. Are you missing a kidney, an eye, a testicle (males), your spleen or any other organ? 19. Do you have any rashes, pressure sores, or other skin problems such as herpes or MRSA skin infection? 20. Have you ever had a head injury or concussion? 21. Have you ever had numbness, tingling, or weakness, or been unable to move your arms or legs after being hit or falling? 22. Have you ever become ill while exercising in the heat? 23. Do you or someone in your family have sickle cell trait or disease? 24. Have you, or do you have any problems with your eyes or vision? 25. Do you worry about your weight? 26. Are you trying to or has anyone recommended that you gain or lose weight? 27. Are you on a special diet or do you avoid certain types of food? 28. Have you ever had an eating disorder? 29. Do you have any concerns that you would like to discuss today? FEMALES ONLY YES

Form adapted from ©2010 American Academy of Family Physicians, American Academy of Pediatrics, American College of Sports Medicine, American Medical Society for Sports Medicine, American Orthopaedic Society for

School Sports Pre-Participation Examination – Part 2: Medical Provider Completes

Revised May 2017

PHYSICAL EXAMINATION FORM

EXAMINON PR: Weight: Bilt: Bilt: Weight: Bilt: Bilt:	Date of Exam:							
Height: Weight: BBM:	Name:						Date of birth:	
Height Weight BM	Sex:	Age:	Grade:	School:			Sport(s):	
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ignature of provider:	Address:							
	Signature of provide	er:						

ORS 336.479, Section 1 (3) "A school district shall require students who continue to participate in extracurricular sports in grades 7 through 12 to have a physical examination once every two years." Section 1(5) "Any physical examination required by this section shall be conducted by a (a) physician possessing an unrestricted license to practice medicine; (b) licensed naturopathic physician; (c) licensed physician assistant; (d) certified nurse practitioner; or a (e) licensed chiropractic physician who has clinical training and experience in detecting cardiopulmonary diseases and defects."

Form adapted from ©2010 American Academy of Family Physicians, American Academy of Pediatrics, American College of Sports Medicine, American Medical Society for Sports Medicine, American Orthopaedic Society for Sports Medicine, and American Osteopathic Academy of Sports Medicine.

School Sports Pre-Participation Examination – Suggested Exam Protocol for Medical Provider Revised May 2017

MUSCULOSKELETAL

Have patient:

1. Stand facing examiner

2. Look at ceiling, floor, over shoulders, touch ears to shoulders

3. Shrug shoulders (against resistance)

4. Abduct shoulders 90 degrees, hold against resistance

5. Externally rotate arms fully

6. Flex and extend elbows

7. Arms at sides, elbows 90 degrees flexed, pronate/supinate wrists

8. Spread fingers, make fist

9. Contract quadriceps, relax quadriceps

10. "Duck walk" 4 steps away from examiner

11. Stand with back to examiner

12. Knees straight, touch toes

13. Rise up on heels, then toes

To check for:

AC joints, general habitus Cervical spine motion Trapezius strength Deltoid strength Shoulder motion

Elbow motion

Elbow and wrist motion

Hand and finger motion, deformities Symmetry and knee/ankle effusion

Hip, knee and ankle motion
Shoulder symmetry, scoliosis
Scoliosis, hip motion, hamstrings
Calf symmetry, leg strength

MURMUR EVALUATION – Auscultation should be performed sitting, supine and squatting in a quiet room using the diaphragm and bell of a stethoscope.

Auscultation finding of:

1. S1 heard easily; not holosystolic, soft, low-pitched

2. Normal S2

3. No ejection or mid-systolic click

4. Continuous diastolic murmur absent

5. No early diastolic murmur6. Normal femoral pulses

(Equivalent to brachial pulses in strength and arrival)

Rules out:

VSD and mitral regurgitation

Tetralogy, ASD and pulmonary hypertension Aortic stenosis and pulmonary stenosis

Patent ductus arteriosus Aortic insufficiency Coarctation

MARFAN'S SCREEN – Screen all men over 6'0" and all women over 5'10" in height with echocardiogram and slit lamp exam when any two of the following are found:

1. Family history of Marfan's syndrome (this finding alone should prompt further investigation)

2. Cardiac murmur or mid-systolic click

3. Kyphoscoliosis

4. Anterior thoracic deformity

5. Arm span greater than height

6. Upper to lower body ratio more than 1 standard deviation below mean

7. Myopia

8. Ectopic lens

CONCUSSION -- When can an athlete return to play after a concussion?

After suffering a concussion, no athlete should return to play or practice on the same day. Previously, athletes were allowed to return to play if their symptoms resolved within 15 minutes of the injury. Studies have shown that the young brain does not recover that quickly, thus the Oregon Legislature has established a rule that no player shall return to play following a concussion on that same day and the athlete must be cleared by an appropriate health care professional before they are allowed to return to play or practice.

Once an athlete is cleared to return to play, they should proceed with activity in a stepwise fashion to allow their brain to readjust to exertion. The athlete may complete a new step each day. The return to play schedule should proceed as below following medical clearance:

Step 1: Light exercise, including walking or riding an exercise bike. No weightlifting.

Step 2: Running in the gym or on the field. No helmet or other equipment.

Step 3: Non-contact training drills in full equipment. Weight training can begin. Step 4: Full contact practice or training.

Step 5: Game play.

If symptoms occur at any step, the athlete should cease activity and be re-evaluated by a health care provider.

581-021-0041 Form and Protocol for Sports Physical Examinations

- 1. The State Board of Education adopts by reference the form entitled "School Sports Pre-Participation Examination " dated May, 2017 that must be used to document the physical examination and sets out the protocol for conducting the physical examination. The form may be used in either a hard copy or electronic format. Medical providers may use their electronic health records systems to produce the electronic form. Medical providers conducting physicals of students who participate in extracurricular activities in grades 7 through 12 must use the form.
- ${\bf 2.} \quad \text{The form must contain the following statement above the medical provider's signature line:} \\$

This form is an exact duplicate of the current form required by the State Board of Education containing the same history questions and physical examination findings. I have also reviewed the "Suggested Exam Protocol".

- 3. Medical providers conducting physicals on or after April 30, 2011 and prior to May 1, 2017 must use the form dated May 2010.
- 4. Medical providers conducting physicals on or after May 1, 2017 and prior to May 1, 2018 may use either the form dated May 2010 or the form dated May, 2017.

6. Medical providers conducting physicals on or after May 1, 2018 must use the form dated May, 2017.

NOTE: The form can be found on the Oregon School Activities Association (OSAA) website: http://www.osaa.org

Stat. Auth.: ORS 326.051 Stats. Implemented: ORS 336.479



TRANSFORMATION CENTER Health Policy & Analytics Division



*To learn more about additional metric resources please visit:*www.oregon.gov/oha/Transformation-Center/Pages/Resources-Metric.aspx

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