



POLICY STATEMENT

Role of the School Physician

abstract

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The American Academy of Pediatrics recognizes the important role physicians play in promoting the optimal biopsychosocial well-being of children in the school setting. Although the concept of a school physician has existed for more than a century, uniformity among states and school districts regarding physicians in schools and the laws governing it are lacking. By understanding the roles and contributions physicians can make to schools, pediatricians can support and promote school physicians in their communities and improve health and safety for children. *Pediatrics* 2013;131:178–182

HISTORY OF PHYSICIANS IN THE SCHOOL SETTING

Physicians associated with schools have held a variety of titles over the years. For the purpose of this article, a school physician is any physician who serves in any capacity for a school district, such as, but not limited to, an advisor, consultant, medical director, volunteer, team physician, medical inspector, or district physician.¹ This statement does not address the role of physicians in school-based health centers² or the role of community pediatricians as private providers to school-aged children. Information on these topics is available on the American Academy of Pediatrics (AAP) Council on School Health Web site (<http://www.aap.org/sections/schoolhealth/>).

The tradition of a school physician dates back to the late 1800s, as parents and public officials recognized that public school facilities needed national systematic medical inspection.³ Over time, the role of the school medical inspector expanded to include containment of prevalent infectious diseases of childhood^{3,4} and eventually as an important vehicle to manage universal immunization.⁵ Modern school physicians focus on the needs of individual children as well as the public health of the school community.^{3,6,7} They often assist schools in accommodating students who have special health care needs, manage acute and chronic illness, and oversee emergency response, environmental health and safety, health promotion, and education.^{8,9}

Millions of children spend roughly 7 hours per day, 180 days per year, in school¹⁰ and may only visit their medical home once annually. In 1999, Dr Joycelyn Elders acknowledged the interdependence of health and education when she said, “You cannot educate a child who is not healthy, and you cannot keep a child healthy who is not educated.”¹¹ In addition, Bright Futures, a national health care promotion initiative, encourages public schools and public health communities to become partners in prevention efforts.¹² Despite the value of coordinating

COUNCIL ON SCHOOL HEALTH

KEY WORDS

coordinated school health, school, school health, school physician

ABBREVIATION

AAP—American Academy of Pediatrics

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health and education, physicians are not effectively and consistently involved in schools across the nation. As a result, US children have varying levels of medical support and safety, depending on the community in which they live. Well-placed school physician expertise can contribute to the creation of policies and practices that provide sound, evidence-based structure to coordinated school health teams.

CURRENT LAWS PERTAINING TO THE PHYSICIAN IN SCHOOLS

Currently, there is no single national set of school health laws. School health services are primarily regulated by state or local governments or individual school districts, and these regulations vary.^{13–15} Some states mandate school physicians; most do not.^{16,17} However, “no one has systematically identified the full range of relevant legal authorities pertinent to schools that may help shape the health of children and adolescents.”¹⁵

Federal law guarantees antidiscrimination and equal protection to individuals who have disabilities.^{18–20} These laws require federally funded states to provide “related services,” such as school nursing, as part of a child’s Individualized Education Plan. However, the US Supreme Court ruled that school districts are not required to provide physician services for individual students, except for diagnostic or evaluative purposes for special education services.^{13–15} This ruling’s broad interpretation has limited funding to schools for physician services, despite the fact that many states, and the AAP, established basic minimal health services schools should provide without established guidance for pediatrician involvement.^{21,22}

The AAP recommends that all schools have a registered professional school nurse, hereafter referred to as school

nurse, to provide health services in schools.²³ The American Medical Association not only recommends that school health be provided by “a professionally prepared school nurse” but also that “health services in schools must be supervised by a physician, preferably one who is experienced in the care of children and adolescents. Additionally, a physician should be accessible to administer care on a regular basis.”²⁴

Despite a scarcity of laws addressing school physicians, pediatricians remain leaders in child health care and are integral members of the school health team.^{22,25–29} Certainly, pediatricians need to know the laws that apply to their patients and themselves and will benefit from collaboration with their AAP chapter, state and local health departments, and school district to understand the laws specific to their role in the schools. However, the lack of uniformity of laws or standards of best practice for school physicians complicates the role physicians

have in schools and results in a difference of health care for children based on the schools they attend.

CRITICAL KNOWLEDGE BASE FOR PHYSICIANS WORKING IN THE SCHOOL SETTING

Ideally, school physicians should be board-certified pediatricians or physicians with expertise in pediatrics.²⁴ In addition to basic training in child growth and development, disease processes, and well-child maintenance including adolescent and reproductive health and sports medicine, physicians who work with schools need additional expertise in key school health topics.^{30–32} The degree of mastery required depends on the extent of the physician’s role with the schools. Overall, a school physician can become a positive liaison between the medical home, the family, and the school.⁸ Table 1 contains a nonexclusive list of essential areas of expertise required of a school physician.

TABLE 1 Critical Knowledge Base for School Physicians

Infectious diseases (eg, outbreak control)
Public health (eg, risk assessment and management, resources)
Immunizations (eg, school requirements and medical contraindications)
Medical-legal issues
State and district school and public health laws, regulations, and policies
IDEA, Section 504, and ADA
FERPA and HIPAA and how they intersect in the school setting
Adolescent health (eg, brain development and reproductive health)
Sports medicine ^a
The value of physical education and physical activity at school
Injury prevention
Conditioning
Disqualifying conditions
Hydration
The effects of climate extremes on athletes
Concussion management
Adaptive physical education
Emergency preparedness (eg, children with special health care needs)
Environmental and occupational health (eg, indoor air quality)
Health and learning (eg, medical, emotional, attentional, and learning problems that affect learning)
Social services resources (eg, access to health insurance and assistance programs)
A coordinated school health model (eg, health services, health education, healthy and safe environment, physical education and activity, nutrition services, counseling/psychology/social services, staff health promotion and family/community involvement)

ADA, Americans With Disabilities Act; FERPA, Family Education Rights and Privacy Act; HIPAA, Health Insurance Portability and Accountability Act; IDEA, Individuals With Disabilities Act.

^a Unless there is a separate team physician.

CURRENT ROLES AND RELATIONSHIPS FOR SCHOOL PHYSICIANS

The roles and types of relationships for physicians working in schools are broad. Involvement can range from fulfilling mandated services, serving as an advisor to a school health advisory group, or being the leader of a coordinated school health program. School physicians function based on the medical and social needs or demands of the community, the school district's priorities, and state laws. School physicians not only bring value to the quality of health services but also may provide a cost savings to districts, with decreased liability from physician oversight of sound school health programs. For example, school physician-coordinated concussion management programs, established climate standards for outdoor activity, or guided anaphylaxis management protocols can potentially save lives, reduce morbidity, improve outcomes, and prevent potential costly litigation against school districts.^{33–36} Because states fund schools on the basis of student attendance, a school physician can potentially save schools money by decreasing absenteeism through advocacy and education, such as in improved asthma or diabetes management.^{37–40} The Council on School Health Web site (<http://www.aap.org/sections/schoolhealth/>) provides guidance on these activities and how pediatricians can work with schools (Table 2).

Physicians can have a professional relationship with schools in many ways, such as a full- or part-time employee, an independent contractor, or a volunteer on a school health advisory group. Where feasible, a school physician does not serve as a private physician for a child in that school district, however, because it can create a potential conflict of interest between the physician as

TABLE 2 Roles for School Physicians

Mandated Services
Physical exams (grade mandated, special education, work permits, sports participation)
Oversight of return to sports (eg, concussion management programs)
Active member on teams/committees (eg, special education, wellness, health education)
Consultation
Write standing nursing orders/protocols
Athletic advisor/team physician
Oversee health aspects of athletic programs and best practice standards
Infectious diseases esp. for close contact sports
Participation of athletes with serious medical conditions
Adaptive physical education for acutely injured or chronically disabled youngsters
Mixed gender competition
Develop policies
Contagious diseases/pandemics
Restraint, suspension, expulsion
Bullying
Reproductive health
Chronic school absenteeism
Develop protocols
Delivery of medications
Seizure management
Diabetes care
Anaphylaxis management
Asthma education and management
Assist in the management of specific medical emergencies or immediacies
Participate at the building level in comprehensive, multidisciplinary teams and wellness councils
Programmatic leadership
Health program evaluation and quality improvement
Health education
Mental health promotion programs
Nutrition and food services
Physical activity and education
Staff wellness
Family and community education
Liaison with primary care physicians regarding specific concerns
Professional performance development
Evaluation and collaborative oversight of nursing staff and other health service providers, including one-on-one nurses and door-to-door transportation
Reviews of emergency care plans for children with life-threatening conditions.
Classroom observations of children with special needs
Health education curriculum development
Direct consultation with principals or the superintendent
Medical-legal issues
Parent attorneys or advocates in accommodation disputes and hearings
Building and playground health and safety
Bloodborne pathogen incidents
School closure related to illness or weather extremes, or infections that affect public health

representative/advocate for a patient versus the school.

Whatever the relationship, once a school district asks a physician to participate in hands-on medical practice for compensation in exchange for services, a clear definition of district expectations of the physician is essential. An agreement, accounting for laws governing the relationship of the physician to the public school district, should define indemnification and

liability. It is critical that physicians understand the specifics of their relationship and that the legal implications are articulated clearly in a written agreement renewed periodically. Although community volunteerism is attractive, physicians should take some precautions before volunteering to serve as a school or team physician. It is essential that he or she knows and understands state laws that address whether a district has an obligation to

hire a medical director. Regardless of the type of relationship, the physician should notify his or her professional liability insurance company of involvement in school health activities and determine whether the insurance covers such activities. If covered, this decision should be noted in writing. If a district has an obligation to provide compensation for physician services, this will allow the physician to schedule time for the school district and to improve the quality and consistency of service.

RECOMMENDATIONS

Given the contribution a school physician can make to the overall well-being of a child within the context of the school setting, the AAP recommends the following:

1. Pediatricians should advocate that all school districts have a school physician to oversee health services. The school physician's roles and responsibilities should be well defined, fairly compensated, and outlined within a written contract.
2. Pediatricians should support their patients and local school health programs by working closely with the school health services team. In districts without school physicians, pediatricians should educate these districts about the benefits of having a school physician and work to foster private-public partnerships for school physicians.
3. School physicians should be experts in key school health topics and be educated about the medical-legal environment in which they practice. They need to provide proper notification of their role and responsibility to their medical liability insurer and should collaborate with their AAP chapter, state and local health departments, and school district to understand the laws specific to their role in the schools.
4. Community pediatricians should be knowledgeable about key school health topics and how to work effectively with schools their patients attend.
5. Pediatricians should consider becoming a school physician or serving on school boards or school health advisory groups to develop sound school health policies and community programs.
6. All physicians who work with school-aged children should recognize the value to the child when there is a comprehensive, coordinated team effort among the child's medical home, the school, and family.
7. Pediatric medical investigators should consider further research to determine how comprehensive coordinated school health programs under the direction of a school physician can improve health care in schools and enhance the goals of the medical home without attempting to replace it.
8. AAP districts and chapters should support school health and school physicians and use the school physician's expertise to advocate for

important changes to state and local school health policy. In addition, AAP districts and chapters should advocate to develop and promote school health policies that benefit children by advocating for additional research on the benefits of school physicians in school health services.

LEAD AUTHORS

Cynthia DiLaura Devore, MD
Lani S.M. Wheeler, MD

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Veda Johnson, MD – *National Assembly on School-Based Health Care*
Carolyn Duff, RN, MS, NCSN – *National Association of School Nurses*

FORMER LIAISON

Linda Davis-Alldritt, RN, MA, PHN – *National Association of School Nurses*

STAFF

Madra Guinn-Jones, MPH

REFERENCES

1. Massachusetts Office of Health and Human Services. Template for Massachusetts school physician/medical consultant role. Commonwealth of Massachusetts; 2011. Available at: www.mass.gov/eohhs/provider/guidelines-resources/services-planning/school-health/school-health/template-for-school-physicianmedical-consultant.html. Accessed August 28, 2012
2. American Academy of Pediatrics; Committee on School Health. School health centers and other integrated school health services. *Pediatrics*. 2001;107(1):198–201
3. Markel H, Golden J. Children's public health policy in the United States: how the past can inform the future. *Health Aff (Millwood)*. 2004;23(5):147–152

4. Stern AM, Reilly MB, Cetron MS, Markel H. "Better off in school": school medical inspection as a public health strategy during the 1918-1919 influenza pandemic in the United States. *Public Health Rep.* 2010;125 (suppl 3):63–70. Available at: www.ncbi.nlm.nih.gov/pmc/articles/PMC2862335/. Accessed August 28, 2012
5. This Day in History. April 26, 1954: polio vaccine trials begin. Available at: www.history.com/this-day-in-history/polio-vaccine-trials-begin. Accessed August 28, 2012
6. Wilson KD, Moonie S, Sterling DA, Gillespie KN, Kurz RS. Examining the consulting physician model to enhance the school nurse role for children with asthma. *J Sch Health.* 2009;79(1):1–7
7. Schetzina KE, Dalton WT, 3rd, Lowe EF, et al. Developing a coordinated school health approach to child obesity prevention in rural Appalachia: results of focus groups with teachers, parents, and students. *Rural Remote Health.* 2009;9(4):1157
8. Taras H, Brennan JJ. Students with chronic diseases: nature of school physician support. *J Sch Health.* 2008;78(7):389–396
9. Yaffe MJ. Developing and supporting school health programs. Role for family physicians. *Can Fam Physician.* 1998;44:821–824, 827–829
10. School Enrollment 2000, Census 2000 Brief. Available at: www.census.gov/prod/2003pubs/c2kbr-26.pdf. Accessed December 19, 2011
11. Morse C. Joycelyn Elders says US must transform its sick care system. *Cornell Chronicle.* February 18, 1999:A1
12. National Center for Education in Maternal and Child Health and Georgetown University. Bright Futures. Available at: www.brightfutures.org. Accessed August 28, 2012
13. Brener ND, Wheeler L, Wolfe LC, Vernon-Smiley M, Caldart-Olson L. Health services: results from the School Health Policies and Programs Study 2006. *J Sch Health.* 2007;77(8):464–485
14. Centers for Disease Control and Prevention. The Centers for Law and the Public's Health: a collaborative at Johns Hopkins and Georgetown Universities. A CDC review of school laws and policies concerning child and adolescent health. *J Sch Health.* 2008;78(2):69–127
15. Division of Adolescent and School Health, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention; Public Health Law Program, Office of Chief of Public Health Practice, Centers for Disease Control and Prevention. A CDC review of school laws and policies concerning child and adolescent health. *J Sch Health.* 2008; 78(2):69–128
16. Pennsylvania Code. School health. Available at: www.pacode.com/secure/data/028/chapter23/chap23toc.html. Accessed August 28, 2012
17. New York State Education Department. School health services to be provided. Available at: www.p12.nysed.gov/sss/schoolhealth/schoolhealthservices/Article19Sections.html#902. Accessed August 28, 2012
18. US Department of Education. Building the legacy: IDEA 2004. Available at: <http://idea.ed.gov/>. Accessed July 13, 2012
19. US Department of Justice. Americans With Disabilities Act: ADA home page. Available at: www.ada.gov/. Accessed July 13, 2012
20. US Department of Education. Protecting students with disabilities: frequently asked questions about Section 504 and the education of children with disabilities. Available at: <http://www2.ed.gov/about/offices/list/ocr/504faq.html>. Accessed July 13, 2012
21. American Academy of Pediatrics, Council on School Health. *School Health: Policy and Practice.* 6th ed. Elk Grove Village, IL: American Academy of Pediatrics; 2004
22. Taras H, Duncan P, Luckenbill D, Robinson J, Wheeler L, Wooley S, eds. *Health, Mental Health and Safety Guidelines for Schools.* Elk Grove Village, IL: American Academy of Pediatrics; 2004. Available at: www.nationalguidelines.org/. Accessed August 28, 2012
23. Magalnick H, Mazyck D; American Academy of Pediatrics Council on School Health. Role of the school nurse in providing school health services. *Pediatrics.* 2008;121(5):1052–1056
24. American Medical Association. Policy Statement H-60.991: providing medical services through school-based health programs. Chicago, IL: American Medical Association; 2012. Available at: <https://ssl3.ama-assn.org/apps/ecommm/PolicyFinderForm.pl?site=www.ama-assn.org&uri=%2fresources%2fdoc%2fPolicyFinder%2fpolicyfiles%2fHnE%2fH-60.991.HTM>. Accessed August 28, 2012
25. American School Health Association. Physicians in schools, preschools, and child care centers. Kent, OH: American School Health Association; 2004. Available at: www.ashaweb.org/files/public/Resolutions/Physicians_in_Schools_Preschools.pdf. Accessed August 28, 2012
26. General Laws of Massachusetts. Chapter 71: public schools. Section 1: Public schools. Section 53: The school committee shall appoint one or more school physicians. Available at: <http://law.onecle.com/massachusetts/71/53.html>. Accessed August 28, 2012
27. Laws of New York. Employment of health professionals. Available at: [http://public.leginfo.state.ny.us/LAWSSEAF.cgi?QUERYTYPE=LAWS+&QUERYDATA=\\$\\$EDN902\\$\\$@TXEDN0902+&LIST=LAW+&BROWSER=EXPLORER+&TOKEN=54954571+&TARGET=VIEW](http://public.leginfo.state.ny.us/LAWSSEAF.cgi?QUERYTYPE=LAWS+&QUERYDATA=$$EDN902$$@TXEDN0902+&LIST=LAW+&BROWSER=EXPLORER+&TOKEN=54954571+&TARGET=VIEW). Accessed August 28, 2012
28. Ohio Revised Code. Title [33] XXXIII EDUCATION Chapter 3313: BOARDS OF EDUCATION. 3313.71 Examinations and diagnoses by school physician. Available at: http://statutes.laws.com/ohio/title33/chapter3313/3313_71. Accessed August 28, 2012
29. Rhode Island Rules and Regulations for School Health Programs. Section 8.2: school physician. Available at: <http://sos.ri.gov/documents/archives/regdocs/released/pdf/DOH/5471.pdf>. Accessed August 28, 2012
30. Kleinschmidt EE. Special educational qualifications for the school physician. *J Sch Health.* 1939;9(1):13–19
31. Neilson EA. Health education and the school physician. *J Sch Health.* 1969;39(6):377–384
32. Nader P. A pediatrician's primer for school health activities. *Pediatr Rev.* 1982;(4):82–92
33. Associated Press. La Salle settles injured player's lawsuit. ESPN College Football Web site. Available at: <http://sports.espn.go.com/nfl/news/story?id=4700355>. Accessed August 28, 2012
34. Seattle/Local Health Guide. Zack's story: CDC highlights Washington sports concussion law. Available at: <http://mylocalhealthguide.com/zacks-story-cdc-highlights-washington-sports-concussion-law/>. Accessed August 28, 2012
35. Hood J. Family sues restaurant over seventh-grader's fatal food allergy. *Chicago Tribune.* March 18, 2011. Available at: http://articles.chicagotribune.com/2011-03-18/news/ct-met-peanut-allergy-lawsuit-20110318_1_food-allergy-peanut-products-katelyn-carlson. Accessed August 28, 2012
36. Fox News. Two Georgia teens die during football training camp, August 3, 2011. Available at: www.foxnews.com/sports/2011/08/03/teen-dies-during-football-training-camp/. Accessed August 28, 2012
37. Richmond CM, Sterling D, Huang X, Wilson K, Pike E. Asthma 411—addition of a consulting physician to enhance school health. *J Sch Health.* 2006;76(6):333–335
38. Centers for Disease Control and Prevention. Coordinated school health. Available at: www.cdc.gov/healthyyouth/cshp/. Accessed August 28, 2012
39. Young MAC, Phillips PH, Phillips HT. Changing the role of the school physician—the Newton Study. *J Sch Health.* 1966;36(9):424–432
40. Wheeler L, Buckley R, Gerald LB, Merkle S, Morrison TA. Working with schools to improve pediatric asthma management. *Pediatr Asthma Allergy Immunol.* 2009;22(4):197–208

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