Medical Versus Nonmedical Immunization Exemptions for Child Care and School Attendance

COMMITTEE ON PRACTICE AND AMBULATORY MEDICINE, COMMITTEE ON INFECTIOUS DISEASES, COMMITTEE ON STATE GOVERNMENT AFFAIRS, COUNCIL ON SCHOOL HEALTH, SECTION ON ADMINISTRATION AND PRACTICE MANAGEMENT

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DOI: 10.1542/peds.2016-2145

POLICY STATEMENT

Organizational Principles to Guide and Define the Child Health Care System and/or Improve the Health of all Children

BACKGROUND

Principles of Childhood Immunization and Community Immunity

Childhood immunization is one of the greatest accomplishments of modern medicine. In the United States 2009 birth cohort, routine childhood immunization will prevent approximately 42 000 early deaths...
and 20 million cases of disease, saving $13.5 billion in direct costs and $68.8 billion in societal costs.\(^1\)

However, vaccines are not 100% effective in individuals receiving them. Certain infants, children, and adolescents cannot safely receive specific vaccines because of age or specific health conditions. These individuals benefit from the effectiveness of immunizations through a mechanism known as community immunity (also known as “herd” immunity). Community immunity occurs when nearly all individuals for whom vaccine is not contraindicated have been appropriately immunized, minimizing the risk of illness or spread of a vaccine-preventable infectious agent to those who do not have the direct benefit of immunization. Although there is variance for levels of immunization required to generate community immunity specific to each disease and vaccine, it is generally understood that population immunization rates of at least 90% are required, as reflected in the Healthy People 2020 goals.\(^2\) Certain highly contagious diseases, such as pertussis and measles, require a population immunization rate of ≥95% to achieve community immunity.

**School Immunization Requirements**

Each of the 50 states and the District of Columbia and Puerto Rico have requirements for proof of immunization for attendees of child care centers and public schools, and nearly all have laws covering private schools as well.\(^3\) Some states allow local school boards to set requirements for some vaccines, although the majority set requirements at the state level. These policies are designed to protect children attending child care and school from vaccine-preventable diseases by creating a learning environment with a very high rate of community immunity. In addition, vocational schools, colleges, and universities also have immunization requirements. As an additional public health benefit, immunization requirements serve as a strong incentive for parents and families to immunize their children according to the schedule recommended by the Centers for Disease Control and Prevention and the American Academy of Pediatrics (AAP). Public health data show that vaccine requirements for child care and/or school entry result in increased community immunization rates\(^4\) and decreased incidence of those vaccine-preventable diseases.\(^5\)\(^6\)

**Medical Immunization Exemptions**

Although there are fairly consistent standards for required immunizations across the United States, every state, the District of Columbia, and Puerto Rico have allowances to exempt children from school-required immunization for medically indicated reasons. Examples of such include allergy to a vaccine component, previous significant adverse reaction to a vaccine or its components, or other underlying health condition such as an immunosuppressed organ transplant recipient.\(^7\) Almost half of states have laws that distinguish between temporary and permanent medical contraindications,\(^5\) with nearly another half of these states requiring annual or more frequent health care provider recertification for the medical exemptions. Because only a very small proportion of children have medical conditions prohibiting specific immunizations, medically indicated exemptions, when granted appropriately, typically do not compromise community immunity. It is this specific group of children that depends on community immunity for protection.

**Nonmedical Immunization Exemptions**

Although not required under current federal constitutional and statutory law,\(^8\) almost all states allow exemptions from school attendance immunization requirements on the basis of religious belief, and almost half of the states allow philosophical (also known as personal-belief) exemptions.

Although nearly ubiquitous, nonmedical exemption regulations are quite heterogeneous from state to state in terms of how they are granted, used, and maintained.\(^3\) Some states explicitly exclude philosophical and personal-belief exemptions and define these as not falling under the scope of religious exemptions. More than half of the states legally allow for exclusion of exempted students or can withdraw nonmedical exemptions during outbreaks, epidemics, or emergencies. More than one-quarter of the states require parental notarization or affidavit confirming either a religious or personal-belief justification in applying for a nonmedical school immunization exemption. A number of states have laws requiring parent/guardian education by health departments or health care providers about the benefits of vaccines and the risks and consequences of not receiving recommended childhood immunizations.

**PUBLIC HEALTH EFFECTS OF IMMUNIZATION EXEMPTIONS**

**Exemption Rates and Vaccine-Preventable Disease Incidence**

Legislation requiring immunization before school entry increases immunization rates and dramatically decreases the incidence of vaccine-preventable diseases.\(^9\) Examples of these include immunization against measles and chickenpox. Likewise, higher rates of immunization exemptions in communities correlate with higher rates of vaccine-preventable illnesses and disease outbreaks, such as pertussis and measles.\(^10\)\(^–\)\(^13\)
Although overall rates of many required immunizations have increased or remained steady over the past 10 years, recent studies show that unvaccinated children are often geographically clustered within communities and have corresponding higher rates of immunization exemption. This clustering reflects the fact that families with similar sociocultural beliefs often live near each other and attend the same schools which results in population clusters within larger communities with significantly lower immunization rates that are insufficient to sustain community immunity. This phenomenon results in disease outbreaks when a vaccine-preventable illness is introduced into these communities.

Exemption Rates and Legal Requirements

States with less rigorous requirements for nonmedical exemptions and those that grant permanent medical exemptions have significantly higher vaccine exemption rates than those states with more rigorous requirements or those that only grant temporary exemptions. States that offer personal-belief exemptions have had steady increases in the number of exemptions over time. Religious exemptions have increased for states that do not offer personal-belief/philosophical exemptions but have, through regulatory language, broadly defined religion for the purposes of obtaining vaccine exemption. The ease of requirements to obtain nonmedical exemptions, especially those of personal belief, can have a significant impact on the rate of exemptions and immunizations. Oregon, which in 2014 began requiring parental completion of an educational module on the benefits of vaccines before allowing a certified exemption, saw a 17% decrease in the number of exemptions granted the following school year.

JUSTIFICATION FOR IMMUNIZATION REQUIREMENTS

Legal Justification

Resistance and legal challenges to compulsory vaccination laws have existed since the early 19th century. In Jacobson versus Massachusetts, the court found legislative vaccine mandates to be constitutional as a means of protecting public health and public safety. In Zucht versus King in 1922, the Supreme Court upheld a local ordinance requiring vaccination as a condition for school attendance. In the 1944 case Prince versus Commonwealth of Massachusetts, the court ruled that the constitutional rights of religion or parenthood were not beyond limitation and that states had the authority to protect the welfare of children and the community. Although the specific case was with regard to child labor laws, the court extended its language to encompass both religious and personal activities such that, “The right to practice religion freely does not include liberty to expose the community or the child to communicable disease or the latter to ill health or death.” Since these rulings, there have been numerous challenges to state and local immunization requirements (eg, Workman versus Mingo County Schools, Phillips versus City of New York). All of these challenges failed.

Ethical Considerations

Parents and the government both have a responsibility in maintaining the health of children. There is a societal interest in protecting the health of the individual child and society as a whole. Although society generally believes that parents or guardians are best situated to understand their child’s unique needs, including health care needs, and should participate in caring and thoughtful medical decision-making, this parental responsibility is not an absolute right. With this in mind, it is critical to design childhood immunization exemption policies so that they clearly serve the best interests of both the individual child and the community.

Parents are expected to consider the best interest of their child in medical decision-making, focusing on their child’s medical, emotional, and social needs, rather than their own social or emotional interests. In general, the state is empowered to overrule parental medical decision-making only when such decision-making or refusal of care places a child at significant risk of serious harm. Vaccination is unique within the realm of medical interventions because it not only provides a benefit to the patient who is vaccinated but also confers a significant public health benefit in terms of community immunity. Similarly, refusal of vaccination not only puts the individual child at risk but also increases societal risk by decreasing community immunity and adding to a population of unimmunized individuals within which vaccine-preventable disease may spread. Declining community immunity may be a significant risk for children and adults with medical contraindications to vaccination, who rely on community immunity for protection from vaccine-preventable diseases. Thus, nonmedical exemptions effectively disenfranchise people with medically indicated contraindications to vaccines from receiving equal protection under public health policy.

Several pediatric bioethicists have argued against the elimination of nonmedical exemptions by citing the ethical Principle of Least Restrictive Means for public health policy. This principle recognizes that where multiple options exist to achieve public health goals, “that the full force of state authority and power...
should be reserved for exceptional circumstances and that more coercive methods should be employed only when less coercive methods have failed." However, this principle was developed to protect individuals from serious deprivations of personal liberty. The current immunization requirements that some seek to avoid with nonmedical exemptions are limited in scope to attendance in child care or school settings and are not requirements for the mandatory vaccination or quarantine of individuals who are unimmunized. Neither is there an undue burden of health risk to the individual in that immunization safety is scientifically well established. The public health value and benefit from requiring childhood immunizations for child care and school attendance versus allowing nonmedical exemptions are not equal alternatives. Nonmedical exemptions negatively affect community immunity and have indeed failed, as documented in the medical literature. In addition, the heterogeneous collections of regulations covering nonmedical exemptions, they actually present an ethical dilemma of unfair implementation and application to families.

CONCLUSIONS

Immunization requirements for child care and school attendance are an effective means of protecting people from vaccine-preventable diseases, both by direct protection from the vaccine and indirect protection via community immunity. Immunization requirements also have a beneficial effect on timely immunization of children. Because rare medically recognized contraindications for specific individuals to receive specific vaccines exist, legitimate medical exemptions to immunization requirements are important to observe. However, nonmedical exemptions to immunization requirements are problematic because of medical, public health, and ethical reasons and create unnecessary risk to both individual people and communities.

RECOMMENDATIONS

1. The AAP supports laws and regulatory measures that require certification of immunization to attend child care and school as a sound means of providing a safe environment for attendees and employees of these settings.

2. The AAP supports medically indicated exemptions to specific immunizations as determined for each individual student.

3. The AAP recommends that all states and the District of Columbia use their public health authority to eliminate nonmedical exemptions from immunization requirements.

4. The AAP recommends that all child care centers, schools, and other covered entities comply with state laws and regulations requiring current and accurate documentation of appropriate immunization status and appropriate medical exemptions of attendees and students.

5. The AAP recommends that the appropriate public health authorities provide the community with information about immunization rates in child care centers, schools, and other covered entities and determine whether there are risks to community immunity on the basis of this information.

LEAD AUTHORS

Geoffrey R. Simon, MD, FAAP
Carrie Byington, MD, FAAP
Christoph Diasio, MD, FAAP
Anne R. Edwards, MD, FAAP
Breena Holmes, MD, FAAP

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Pediatrics 2016;138;
DOI: 10.1542/peds.2016-2145 originally published online August 29, 2016;

American Academy of Pediatrics
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Pediatrics 2016;138;
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