Procedure Manual School Immunization Regulations

Effective August 1983
Amended August 1997
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TABLE OF CONTENTS

Introduction	. 2
Summary of Regulations.	. 4
Certificate of Immunization.	. 9
Medical Certificate	. 9
Exceptions to Provisions.	0
Documentation of Immunization Requirements or Exemptions	11
General Vaccine Information.	12
Reporting	14
Appendices	
A. Copy of Annex A of the school immunizations requirements final rule-making	15
B. Certificate of Immunization.	22
C. Medical Certificate.	23
D. School Immunization Law Report (SILR)	24
E. List of Local Immunization Contacts	25
F. Vaccine Identification (Brands and Abbrev.)	27
G. Recommended and Minimum Ages and Intervals Between Doses of Routinely Recommended Vaccines	29

SCHOOL IMMUNIZATION REGULATIONS PROCEDURE MANUAL 2017

In March 2017, the Pa. Department of Health (Department) amended its regulations to school immunizations, 28 Pa. Code Chapter 23, Subchapter C. These regulations are effective Aug. 1, 2017 and will impact the entering class(es) for school year 2017-2018. The amendments revise § 23.82 (definitions), § 23.83 (immunization requirements), § 23.85 (responsibilities of schools and school administrators) and § 23.86 (school reporting).

These amendments added definitions of the terms "full immunization" and "medical certificate."

Amendments also reflect the fact that several vaccines required for school attendance are no longer available in the United Stated in certain forms. For example, two pediatric acellular vaccines are available in the United States; however, the diphtheria, tetanus and pertussis vaccine is not available. Therefore, the separate antigen forms were deleted, and the combination form was added. The regulations allow for a child with a contraindication for the pertussis component of the vaccine to obtain a combination diphtheria and tetanus vaccination. Another example is that vaccines for measles, mumps, and rubella are no longer made as separate antigens, and the Department now requires the combination form.

The amendment also clarified the requirement for polio vaccination.

With respect to immunity, the regulations allow for immunity to be proven by a history of measles and rubella by laboratory testing and a written statement of history of mumps disease from a physician, certified registered nurse practitioner or physician assistant.

The regulations changed the Department's existing requirements for school immunizations, and are based, in part, upon recommendations of the Advisory Committee on Immunization Practices (ACIP), an advisory committee of the federal Centers for Disease Control and Prevention (CDC). To ensure protection for students from meningitis into their post-secondary education, the Department added a dose of meningococcal conjugate vaccine (MCV) for entry into the 12th grade, or, in an ungraded class, for entry into the school year in which the child turns 18. This is in accordance with ACIP's recommendations.

Also reflecting ACIP recommendations, Tdap may be administered regardless of the interval of time between the last dose of a vaccine containing a tetanus or diphtheria toxoid. One dose of Tdap in combination form is required.

The Department eliminated the eight-month provisional period and set up requirements that would allow for exclusion of students under certain circumstances. The requirements differ for single dose versus multiple dose vaccines.

The amendments require a child to have any single dose vaccine upon school entry or risk exclusion. In the case of a multi-dose vaccine, the amendments require that the child have at least one dose of the vaccine upon school entry. If additional doses are required and are medically appropriate within the first five days of school, the child must have either the final dose during that five-day period or must have the next scheduled dose and also provide a medical certificate setting out the schedule for the remaining doses. If the child has at least one dose, but needs

additional doses, and those doses are not medically appropriate during the first five days of school, the child may provide a medical certificate on or before the fifth school day scheduling those doses.

School administrators or their designees are required to review that medical certificate every 30 days to ensure that the child is in compliance. A school is to maintain the medical certificate until the child's official school immunization record is completed to ensure accuracy of records on immunizations.

The amendments address potential waivers of the immunization requirements when a student is unable to provide vaccine records immediately to the school, and include situations involving students covered by The McKinney-Vento Homeless Education Assistance Improvements Act of 2001, students transferring into a school in the commonwealth, situations involving vaccine shortages as recognized by the CDC and students changing schools in the wake of disasters when the immunization records are not accessible as set forth by the Department.

Finally, the amendments change the manner and time frames for schools to report immunization rates to the Department, in order to ensure the most accurate immunization data possible from schools. Schools are to electronically report immunization data to the Department by Dec. 31 of each year. In the event the school does not have access to a computer, the report may be completed on a form provided by the Department and received at the Department by Dec. 15 of each year.

A child who does not have an exemption as permitted by § 23.84 and who does not receive the immunizations as required in § 23.83 may be excluded in that school year and each succeeding school year that the child fails to obtain the required immunization.

The regulations do not change the requirements allowing a child to obtain an exemption from immunization requirements for either religious or medical reasons; those requirements are statutory and may not be altered through the regulatory process.

This manual was originally written for the institution of the all grade immunization requirements that became effective August 1983. It was revised in 1997 to encompass school entry requirements for hepatitis B, a fourth dose of tetanus and diphtheria, and a second dose of measles containing vaccine. In addition, the 1997 revisions included the requirement for all grades (K-12) for two doses of measles containing vaccine beginning in the 2000-2001 school year. Portions of the manual are from the original document and the 1997 revision. Information has been updated to include the new regulations as well as new vaccines, schedules, minimum intervals, etc. It is written to assist school health personnel to understand and enforce the regulations requiring immunizations for entrance and attendance at school in the commonwealth.

A copy of the new regulations is attached. (See Appendix A.)

SUMMARY OF REGULATIONS

Relating to school immunizations (28 Pa. Code, Chapter 23, Subchapter C)

- 1) Children attending child care group settings located in schools are to follow the immunization requirements included in 28 Pa. Code § 27.77. These requirements are specifically geared towards children under the age of 5 years. If a child attending a child care group setting is 5 years of age or older, then the school immunization requirements would apply regardless of the child's location.
- 2) There is no difference between the list of immunizations required for school entry and those required for school attendance, hence there is no need for two separate subsections addressing those immunization requirements.
- 3) Attendance at school is defined as attendance at a grade or special classes, kindergarten through 12th grade, including public, private, parochial, vocational, intermediate unit and home education students, and students of cyber and charter schools.
- 4) Each school director, superintendent, principal, or other person in charge of a public, private, parochial or nonpublic school in this commonwealth, including vocational schools, intermediate units, and special education and home education programs, cyber and charter schools, shall ascertain that a child has been immunized in accordance with the requirements prior to admission to school for the first time.
- 5) All children at any grade, kindergarten through 12th, including all public, private, parochial or nonpublic school in this commonwealth, including vocational schools, intermediate units, and special education and home education programs, cyber and charter schools, must show proof of immunization before they can attend school in this commonwealth.
- 6) The medical certificate must be signed by a physician, certified registered nurse practitioner (CRNP) or physician assistant (PA). If the child will be receiving the immunizations from the Department or a public health department, a public health official may sign the medical certificate. A child who meets the requirements in the regulations regarding required immunizations and medical certificates may continue to attend school even if the child does not have all the required vaccinations, so long as the child complies with the vaccination schedule in the medical certificate. School administrators or their designees are required to review the medical certificate every 30 days to ensure that the child is in compliance.
- 7) By adding pertussis to the list of diseases against which a child shall be vaccinated for school entry and attendance, the Department is clarifying that the ACIP-recommended vaccine for the diphtheria and tetanus requirement is a vaccine that includes a pertussis component, DTaP, unless pertussis is contraindicated for that child, in which case a medical exemption for the pertussis component will be required.

- 8) The Department is clarifying that the previous polio requirement from three or more doses to: four properly-spaced doses of either oral polio vaccine or inactivated polio vaccine, which may be administered as a single antigen vaccine or in a combination form. The fourth dose shall be administered on or after the fourth birthday. (Students 18 years of age and older are exempted.)
- 9) The amendments also add a dose of meningococcal conjugate vaccine (MCV) for entry into the 12th grade, or, in an ungraded class, for entry into the school year where the child turns 18. Since this vaccine would be considered the last dose in a multidose series, this vaccine (or the next required or final dose) must be administered within the first five days of school entry, unless a waiver or exemption applies. If this requirement is not met, the school administrator shall undertake exclusion measures.
- 10) The regulations require that a completed Certificate of Immunization (an official certificate furnished by the Department of Health (Appendix B), be on file at the school where each student attends. The Certificate of Immunization shall become the school immunization record or the record of exemption. This certificate may be recorded and maintained in a computer data base program.
- 11) The regulations require that the Certificate of Immunization or a facsimile be sent to the new school when a child is promoted or is transferred. The record or facsimile may also be given to the parent or guardian when the student transfers to another school, graduates or otherwise leaves the school district.
- 12) The amendments require the annual reporting of student immunization status to the Division of Immunizations, Department of Health, by Dec. 31 of each year.
- 13) The following immunizations are required as a condition of attendance in all grades, including public, private, parochial, non-public, including vocational, intermediate units, special education and home education students, and students of cyber and charter schools in this commonwealth:
 - (a) **Diphtheria, tetanus, and pertussis**. Four or more properly-spaced doses administered in combination form diphtheria and tetanus toxoids and acellular pertussis (DTaP) or diphtheria and tetanus toxoids and pertussis (DTP). If a child has a contraindication to pertussis vaccine, the child shall receive diphtheria and tetanus toxoid vaccine (DT) to complete the vaccination series. The fourth dose shall be administered on or after the fourth birthday.
 - a. If a student, age 7 years and older started the Td series late, the primary series is three doses. The first two doses should be separated by at least four weeks, and the third dose given at six to 12 months after the second dose. ACIP recommends that one of these doses (preferable the first) be administered as Tdap. The student would not have four doses of Td as required for school attendance and would be considered up-to-date with no further documentation required.
 - (b) **Poliomyelitis**. Four properly-spaced doses of either oral polio vaccine or inactivated polio vaccine, which may be administered as a single antigen vaccine

or in a combination form. The fourth dose shall be administered on or after the fourth birthday. (Students 18 years of age and older are exempted.)

- (c) Measles (rubeola), mumps and rubella (German measles). One of the following:
 - (i) Multiple antigens. Two properly-spaced doses of live attenuated measles, mumps, rubella combination vaccine, the first dose administered at 12 months of age or older.
 - (ii) **Single antigens**. In the event the antigens were given separately, and not in a combination vaccine, the dosage is as follows:
 - a. Two properly-spaced doses of live attenuated measles vaccine, the first dose administered at 12 months of age or older;
 - b. One dose of live attenuated rubella vaccine, administered at 12 months of age or older; and
 - c. Two properly-spaced doses of live attenuated mumps vaccine, the first dose administered at 12 months of age or older.
 - (iii) Evidence of immunity. Evidence of immunity may be shown by a history measles and rubella immunity proved by laboratory testing by a laboratory-appropriate certification and written statement of a history of mumps disease from a physician, certified registered nurse practitioner or physician assistant.
- (d) **Hepatitis B**. Three properly-spaced doses of hepatitis B vaccine, unless a child receives a vaccine as approved by the Food and Drug Administration for a two-dose regimen or has a history of hepatitis B immunity proved by laboratory testing. Hepatitis B vaccine may be administered as a single antigen vaccine or in a combination form.
- (e) Varicella (chickenpox). One of the following:
 - (i) Varicella vaccine: Two properly-spaced doses of varicella vaccine, the first dose administered at 12 months of age or older. Varicella vaccine may be administered as a single antigen vaccine or in a combination form.
 - (ii) **Evidence of immunity**. Evidence of immunity may be shown by either one of the following:
 - a. Laboratory evidence of immunity or laboratory confirmation of disease; or
 - b. A written statement of a history of chickenpox disease from a parent, guardian or physician, certified registered nurse practitioner or physician assistant.
- 14) There are special requirements for tetanus and diphtheria toxoids and acellular pertussis vaccine and meningococcal conjugate vaccine (MCV).
 - (a) **Required for entry into seventh grade**. In addition to the immunizations listed in number 13 (above), the following immunizations are required at any public, private, parochial or non-public school in this commonwealth, including

vocational schools, intermediate units, special education and home education programs, and cyber and charter schools as a condition of entry for students entering the seventh grade; or, in an ungraded class, for students in the school year that the student is 12 years of age:

- (i)Tetanus and diphtheria toxoids and acellular pertussis vaccine (Tdap). One dose of Tdap in a combination form
- (ii) Meningococcal Conjugate Vaccine (MCV). One dose of MCV
- 15) A child who does not have an exemption as permitted by § 23.84 and who does not receive the immunizations as required in numbers 13 and 14 above may be excluded in that school year and each succeeding school year that the child fails to obtain the required immunization.
- 16) There are special MCV requirement for entry into 12th grade.
 - (a) In addition to the immunizations listed in numbers 13 and 14 above, one dose of MCV is required for entry into 12th grade at any public, private, parochial or non-public school in this commonwealth, including vocational schools, intermediate units, special education and home education programs, and cyber and charter schools, or, in an ungraded class, for students in the school year that the student is 18 years of age, if the child has not received a previous dose on or after the child's 16th birthday. A dose of MCV received at 16 years of age or older shall count as the 12th grade dose.
- 17) Provisional admittance to school occurs under some restrictions.
 - (i) **Multiple dose vaccine series**. If a child has not received all of the antigens for a multiple dose vaccine series described in § 23.83 on the child's first day of attendance for that school year, the school administrator or the administrator's designee may not provisionally admit the child to school, unless the child has at least one dose of each multiple dose vaccine series required by § 23.83, and one of the following occurs:
 - (a) The child receives the final dose of each multiple dose vaccine series required by § 23.83 within five school days of the child's first day of attendance, and the child's parent or guardian provides a certificate of immunization on or before the fifth school day.
 - (b) If the child needs additional doses of a multiple dose vaccine series in order to meet the requirement of § 23.83, the child receives the next scheduled dose during the five school days referenced in subparagraph (a) and the child's parent or guardian provides a medical certificate on or before the fifth school day scheduling the additional required doses.
 - (c) If the child needs additional doses of a multiple dose vaccine series to meet the requirements of § 23.83 but the next dose is not medically appropriate during the five school days referenced in subparagraph (a)

above, the child's parent or guardian provides a medical certificate on or before the fifth school day scheduling the additional required doses.

- (ii) Single dose vaccines. If a child has not received a vaccine for which only a single dose is required on the child's first day of attendance for that school year, the child may not be admitted to school.
- 18) Attendance at a child care group setting located in a public, private, or vocational school, or in an intermediate unit is conditional upon the child's satisfaction of the immunization requirements in 28 Pa. Code § 27.77 (relating to immunization requirements for children in child care group settings).
- 19) Attendance at a pre-kindergarten program operated by a school district; an early intervention program operated by a contractor or subcontractor including intermediate units, school districts and private vendors; or at private academic pre-schools is conditional upon the child's satisfaction of the immunization requirements in 28 Pa. Code § 27.77 (relating to immunization requirements for children in child care group settings).
- 20) A **grace period** is when a vaccine dose is administered within the four-day period prior to the minimum age for the vaccination or prior to the end of the minimum interval between doses and shall be considered a valid dose of the vaccine for purposes of this chapter. A dose administered greater than four days prior to immunization age or interval for a dose is invalid for purposes of this regulation and shall be repeated.

NOTE: The grace period may not be used with the 28-day minimum interval between two-live vaccines.

CERTIFICATE OF IMMUNIZATION

(See example in Appendix B)

The Certificate of Immunization (green and white) card will be supplied by the Department of Health to each school district. The certificate is filled out by the parent or health care provider and signed by the health care provider, public health official or school nurse or designee. The certificate is given to the school as proof of full immunization. The front side should be used to record immunization information. The reverse side of the Certificate of Immunization card will serve as the written exemption. If a parent is claiming an exemption, only that side of the card needs to be filled out. The exemption card should be filed so that the exemption statement is facing front. The wide line at the top of the exemption side of the card will make identification of the students claiming religious and/or medical exemptions easy in the event of a disease outbreak requiring exclusion of students from schools and for tabulating the yearly reports. The minimum required immunizations are shaded on the certificate. The Certificate of Immunization record card should be filed separately from the student's official record folder. A file box would be a suitable container for the record. The records will then be readily available for auditing or for checking for exemptions in the event of a disease outbreak. In addition, when immunization records are reviewed or audited, the remainder of the student record is kept confidential. It will make tabulation easier and faster for reporting purposes if the records are kept separate.

The information may be recorded and maintained in a computer data base. The data base system must allow for access by Department of Health personnel for auditing, while maintaining confidentiality of the remainder of the student's record. It also should allow for easy access for checking exemptions in the event of a disease outbreak and for tabulation and reporting purposes.

The certificate of immunization or a facsimile thereof generated by the computer shall be returned to the parent, guardian or emancipated child, or the school shall transfer the certificate of immunization (or facsimile) with the child's record to the new school when a child withdraws, transfers, is promoted, graduates or otherwise leaves the school.

MEDICAL CERTIFICATE

(See example in Appendix C)

This is an official form (red and white) furnished by the Department setting out the immunization plan for a student who is not fully immunized; it is to be filled out and signed by a physician, certified registered nurse practitioner (CRNP), physician assistant (PA) or by a public health official when the immunization is provided by the Department or a local health department; then, it is given to a school as proof that the student is scheduled to complete the required immunization. A school shall maintain the medical certificate until the official school immunization record is completed.

The medical certificate shall be reviewed every 30 days by the school administrator or the school administrator's designee. Subsequent immunization shall be entered on the certificate of immunization or in the school's computer database. Immunization requirements described in § 23.83 shall be completed in accordance with the requirements of the medical certificate. If, upon review, the requirements of the medical certificate are not met, the school administrator or school administrator's designee may exclude the child from school.

EXCEPTIONS TO PROVISIONS

- 1. McKinney-Vento Homeless Education Assistance Improvements Act of 2001, 42 U.S.C.A. §§ 111431-11435
 - a. If a child has not been immunized or is unable to provide immunization records due to being homeless, a school shall comply with any and all federal laws pertaining to the educational rights of homeless children, including the McKinney-Vento Homeless Education Assistance Improvements Act of 2001.
- 2. Moving or transferring into a school within the commonwealth
 - a. If the child's parent or guardian is unable to provide immunization records immediately upon enrollment into the school, the child's parent or guardian shall have 30 days to provide immunization records to the school to show proof of immunization as set out in § 23.83, a medical certificate or an exemption. A child who is unable to provide the necessary immunization records, medical certificate or exemption may be excluded at the end of the 30-day period and in subsequent school years until the school immunization requirements are met. If a student transfers again from one Pennsylvania school to another during his/her 30-day period, that student is allowed another 30-day provisional enrollment from time of entry into the second school.

3. Foster care

a. If a child is unable to provide immunization records on the first day of attendance for the school year due to being in foster care, the school shall comply with any and all federal laws pertaining to the educational rights of children in foster care, including the Fostering Connections to Success and Increasing Adoptions Act of 2008. The child's foster parent shall have 30 days to provide the school with immunization records, a medical certificate or otherwise satisfy the requirements for an exemption. A child who is unable to provide the necessary records, medicate certificate or exemption may be excluded at the end of the 30-day period and in subsequent school years until the school immunizations requirements are met.

4. Temporary waiver

- a. The secretary of health may issue a temporary waiver of the immunization requirements if any of the following occurs;
 - The Centers for Disease Control and Prevention, United States
 Department
 of Health and Human Services, recognizes a nationwide shortage of supply
 for a particular vaccine.
 - ii. A disaster occurs impacting the ability of children transferring into a school to provide immunization records.

DOCUMENTATION OF IMMUNIZATION REQUIREMENTS OR EXEMPTIONS

The month, day and year of measles, mumps, rubella (MMR) and varicella immunization must be provided to document that the vaccines were administered on or after 12 months of age and proper spacing was adhered to between live measles and live varicella vaccine administrations. The month and/or year is acceptable if it was clearly administered at 12 months of age or older (e.g., date of birth 6/04/10, immunization date or July 2011). A measles immunization given to this same child recorded as date of birth, (e.g., 6/04), or just immunization date, (e.g., 2010) is not acceptable.

By law, only licensed medical doctors, doctors of osteopathy or their designees can sign for medical exemptions. Chiropractors' certifications for medical exemptions are not acceptable. A medical exemption for a specific antigen(s) should be documented in the statement of exemption. All other immunizations are still required.

If a physician provides written documentation that the child is adequately immunized and there are inappropriate intervals between doses or a dose is given too early for the age (or any other spacing issues), the situation should be considered a medical exemption. In the event that there is a disease outbreak, the Division of Immunizations (DOI) will recommend exclusion of the student or may make other recommendations based on the disease outbreak and the immunity history.

If a blood test is furnished in lieu of vaccination, the type of test and the titer should be recorded and the physician verified.

The birth date is required on the Certificate of Immunization to verify that immunizations were given at the appropriate age.

Statements of religious or strong moral or ethical conviction opposing immunization must be submitted in writing and signed by the parent, guardian or emancipated child. A space on the Certificate of Immunization is provided for this purpose. This exemption does not need to be renewed yearly. School officials must use their discretion in accepting the statements of exemption. The reason(s) for exemption must be reasonable, as judged by the school official. In difficult cases, Department representatives are available to consult with school personnel as to the intent of the exemption regulations. However, the final decision is up to the school official. School officials should consult with their own legal counsel prior to a final decision regarding a questionable exemption.

The grade or class of the student should be indicated on the certificate by circling the present grade. Next year, the subsequent grade would be circled.

GENERAL VACCINE INFORMATION

- 1. Multiple vaccines can and should be given at the same time, if indicated. All vaccines required for school attendance may be administered simultaneously.
- 2. Interruption of the recommended schedule or delaying subsequent doses of any vaccine does not diminish the effectiveness of the vaccine. There is no need to restart a series regardless of the time elapsed between doses. Doses administered at less than the recommended minimal intervals or at less than the standard dose may decrease the antibody response to the vaccine and should not be counted as a valid dose. The child should be revaccinated as necessary.
- 3. Two live parenteral vaccines (MMR and varicella) can be given at the same visit. If they cannot be given at the same visit, they should be separated by at least 28 days.
- 4. Several vaccines are given as combination vaccines. See Appendix F for a list of combination vaccines.
- 5. Any modification of the minimum recommended interval between doses of antigen(s) shall be documented in writing by the child's primary care physician, accompanied by written parental agreement.
- 6. If a student, age 7 years and older started the Td series late, the primary series is three doses. The first two doses should be separated by at least four weeks, and the third dose given at six to 12 months after the second dose. ACIP recommends that one of these doses (preferable the first) be administered as Tdap.

Note - ACIP-CDC changes April 2018

For persons ages 7 to 10 years old who receive a dose of Tdap as part of the catch-up series, an adolescent Tdap vaccine dose should be administered at age 11–12 years old.

- 7. When completing the School Immunization Law Report (Appendix D): if a child had one dose of varicella and also acquired varicella disease, the child should only be counted in the Varicella Had Disease column.
- 8. If a student has three doses of polio, the third dose being six months after the last dose and after their fourth birthday, does the child still need a fourth dose? This is a unique situation. ACIP's recommendation for routine polio vaccination has been four doses since 2009 (at 2 months, 4 months, 6-18 months and 4 through 6 years). Most physicians follow these ACIP recommendations for immunizations. Below is what our regulations require for polio:

Poliomyelitis. Four properly-spaced doses of either oral polio vaccine or inactivated polio vaccine, which may be administered as a single antigen vaccine, or in a combination form. The fourth dose shall be administered on or after the fourth birthday and at least six months after the previous dose.

The following is what is printed per the CDC ACIP recommended immunization schedule for polio:

Inactivated poliovirus vaccine (IPV); minimum age: 6 weeks Routine vaccination:

Administer a four-dose series of IPV at ages 2 months, 4 months, 6-18 months and 4 through 6 years. The final dose in the series should be administered on or after the fourth birthday and at least six months after the previous dose.

The following is a catch-up schedule for polio per the CDC ACIP recommended immunization schedule.

Catch-up vaccination:

In the first six months of life, minimum age and minimum intervals are only recommended if the person is at risk of imminent exposure to circulating poliovirus (i.e., from travel to a polio-endemic region or during an outbreak).

If four or more doses are administered before age 4, an additional dose should be administered at age 4 through 6 and at least six months after the previous dose.

**Therefore, a fourth dose is not necessary if the third dose was administered at age 4 or older and at least six months after the previous dose.

Revaccination

There is no evidence of enhanced risk to a person being vaccinated who previously has received that vaccine or had the disease. If there is uncertainty about a previous vaccination, it is appropriate to reimmunize.

Examples of the need for revaccination are children who received measles, mumps, rubella or varicella vaccines prior to 12 months of age, or less than minimal intervals between doses of series vaccines. The repeat dose should generally be spaced after the invalid dose by an interval at least equal to the recommended minimum interval as indicated by the ACIP. These issues are most often subject for discussion with parents and physicians. Firm explanations must be given that immunizations at the appropriate age, minimal intervals, routes, sites and dosages are the decisions of the manufacturers of vaccine products and how they were licensed by the Food and Drug Administration, the Centers for Disease Control and Prevention, and the Department of Health.

ACIP has clearly stated that MMR and varicella immunizations should be given no sooner than 12 months of age.

You may find that physicians and/or parents of children immunized at less than minimum intervals may state that this time deficiency "doesn't make any difference." Although we can't authoritatively say that these small time deficiencies make a difference in seroconversion, these children should not be treated differently than other immunization-deficient children. Public health law and regulation is made to benefit the entire or the majority of the population affected by that law or regulation, and exceptions cannot be granted. You should remember that revaccination with MMR or varicella of a child vaccinated before his first birthday will significantly increase his or her chances of seroconversion.

Live Vaccines and Pregnancy

Live virus vaccines should not be given to females known to be pregnant. This precaution is based on the theoretical risk of fetal infection in females who might be pregnant or who might become pregnant shortly after vaccination. However, no evidence exists to substantiate this theoretical risk from live virus vaccines. Considering the importance of protecting adolescents and young adults exposed to measles, mumps and rubella, asking females if they are pregnant, excluding those who are, and explaining the theoretical risks to the others are the recommended precautions in an immunization program.

REPORTING

A public, private, parochial or nonpublic school in this commonwealth, including vocational schools, intermediate units, special education and home education programs, and cyber and charter schools, shall report immunization data to the Department electronically by Dec. 31 of each year using a format and system provided by the Department.

In the event a public, private, parochial or nonpublic school does not have access to a computer to complete its report electronically, it shall report to the Department by Dec. 15 of each year using a form provided by the Department.

A copy of the School Immunization Law Report and Instructions for Completion are included in Appendix D.

APPENDIX A

Annex A

TITLE 28. HEALTH AND SAFETY

PART III. PREVENTION OF DISEASES

CHAPTER 23. SCHOOL HEALTH

Subchapter C. IMMUNIZATION

§ 23.82. Definitions.

The following words and terms, when used in this subchapter, have the following meanings, unless the context clearly indicates otherwise:

Ascertain—To determine whether or not a child is immunized as defined in this subchapter.

Attendance at school—

- (i) The attendance at a grade, or special classes, kindergarten through 12th grade, including public, private, parochial, vocational, intermediate unit and home education students, and students of cyber and charter schools.
- (ii) The term does not cover the attendance of children at a childcare group setting, defined in § 27.1 (relating to definitions), located in a public, private or vocational school, or in an intermediate unit.

Certificate of immunization—The official form furnished by the Department. The certificate is filled out by the parent or health care provider and signed by the health care provider, public health official or school nurse or a designee. The certificate is given to the school as proof of full immunization. The school maintains the certificate as the official school immunization record or stores the details of the record in a computer database.

Department—The Department of Health of the Commonwealth.

Full immunization—The completion of the requisite number of dosages of the specific antigens at recommended time and age intervals as set forth in § 23.83 (relating to immunization requirements).

Immunization—The requisite number of dosages of the specific antigens at the recommended time intervals under this subchapter.

Medical certificate—The official form furnished by the Department setting out the immunization plan for a student who is not fully immunized, filled out and signed by a physician, certified registered nurse practitioner or physician assistant, or by a public health official when the immunization is provided by the Department or a local health department, and given to a school as proof that the student is scheduled to complete the required immunizations.

Record of immunization—A written document showing the date of immunization—that is, baby book, Health Passport, family Bible, other states' official immunization documents,

International Health Certificate, immigration records, physician record, school health records and other similar documents or history.

Secretary—The Secretary of the Department.

§ 23.83. Immunization requirements.

- (a) Duties of a school director, superintendent, principal or other person in charge of a public, private, parochial or nonpublic school. Each school director, superintendent, principal, or other person in charge of a public, private, parochial or nonpublic school in this Commonwealth, including vocational schools, intermediate units, and special education and home education programs, cyber and charter schools, shall ascertain that a child has been immunized in accordance with the requirements in subsections (b), (c) and (e) prior to admission to school for the first time, under section 1303 of the Public School Code of 1949 (24 P.S. § 13-1303a), regarding immunization required; penalty.
- (b) Required for attendance. All of the following immunizations are required as a condition of attendance at school in this Commonwealth:
- (1) *Diphtheria, tetanus and pertussis*. Four or more properly-spaced doses administered in a combination form (diphtheria and tetanus toxoids and acellular pertussis (DTaP) or diphtheria and tetanus toxoids and pertussis (DTP)). If a child has a contraindication to pertussis vaccine, the child shall receive diphtheria—tetanus toxoid vaccine (DT) to complete the vaccination series. The fourth dose shall be administered on or after the 4th birthday.
- (2) *Poliomyelitis*. Four properly-spaced doses of either oral polio vaccine or inactivated polio vaccine, which may be administered as a single antigen vaccine, or in a combination form. The fourth dose shall be administered on or after the 4th birthday and at least 6 months after the previous dose.
 - (3) Measles (rubeola), mumps and rubella (German measles). One of the following:
- (i) *Multiple antigens*. Two properly-spaced doses of live attenuated measles, mumps, rubella combination vaccine, the first dose administered at 12 months of age or older.
- (ii) *Single antigens*. In the event the antigens were given separately, and not in a combination vaccine, the dosage is as follows:
- (A) Two properly-spaced doses of live attenuated measles vaccine, the first dose administered at 12 months of age or older.
 - (B) One dose of live attenuated rubella vaccine, administered at 12 months of age or older.
- (C) Two properly-spaced doses of live attenuated mumps vaccine, administered at 12 months of age or older.
- (iii) *Evidence of immunity*. Evidence of immunity may be shown by a history of measles and rubella immunity proved by laboratory testing by a laboratory with the appropriate certification and a written statement of a history of mumps disease from a physician, certified registered nurse practitioner or physician assistant.

- (4) *Hepatitis B*. Three properly-spaced doses of hepatitis B vaccine, unless a child receives a vaccine as approved by the United States Food and Drug Administration for a two-dose regimen, or a history of hepatitis B immunity proved by laboratory testing. Hepatitis B vaccine may be administered as single antigen vaccine or in a combination form.
 - (5) Varicella (chickenpox). One of the following:
- (i) *Varicella vaccine*. Two properly-spaced doses of varicella vaccine, the first dose administered at 12 months of age or older. Varicella vaccine may be administered as a single antigen vaccine or in a combination form.
 - (ii) Evidence of immunity. Evidence of immunity may be shown by one of the following:
 - (A) Laboratory evidence of immunity or laboratory confirmation of disease.
- (B) A written statement of a history of chickenpox disease from a parent, guardian, physician, certified registered nurse practitioner or physician assistant.
- (c) Special requirements for tetanus and diphtheria toxoids and acellular pertussis vaccine and meningococcal conjugate vaccine (MCV).
- (1) Required for entry into 7th grade. In addition to the immunizations listed in subsection (b), the following immunizations are required at any public, private, parochial or nonpublic school in this Commonwealth, including vocational schools, intermediate units, special education and home education programs, and cyber and charter schools, as a condition of entry for students entering the 7th grade, or, in an ungraded class, for students in the school year that the student is 12 years of age:
- (i) Tetanus and diphtheria toxoids and acellular pertussis vaccine (Tdap). One dose of Tdap in a combination form.
 - (ii) Meningococcal conjugate vaccine (MCV). One dose of MCV.
- (iii) *Exclusion*. A child who does not have an exemption as permitted by § 23.84 (relating to exemption from immunization) and who does not receive the immunizations as required in subparagraphs (i) and (ii) may be excluded in that school year and each succeeding school year that the child fails to obtain the required immunization.
- (2) Required for entry into 12th grade. In addition to the immunizations listed in subsection (b) and this subsection, one dose of MCV is required for entry into 12th grade at any public, private, parochial or nonpublic school in this Commonwealth, including vocational schools, intermediate units, special education and home education programs, and cyber and charter schools, or, in an ungraded class, for students in the school year that the student is 18 years of age, if the child has not received a previous dose on or after the child's 16th birthday. A dose of MCV received at 16 years of age or older shall count as the 12th grade dose.
- (d) *Child care group setting*. Attendance at a child care group setting located in a public, private or vocational school, or in an intermediate unit, is conditional upon the child's satisfaction of the immunization requirements in § 27.77 (relating to immunization requirements for children in child care group settings).

- (e) Prekindergarten programs, early intervention programs' early childhood special education classrooms and private academic preschools. Attendance at a prekindergarten program operated by a school district, an early intervention program operated by a contractor or subcontractor including intermediate units, school districts and private vendors, or at private academic preschools is conditional upon the child's satisfaction of the immunization requirements in § 27.77.
- (f) *Grace period*. A vaccine dose administered within the 4-day period prior to the minimum age for the vaccination or prior to the end of the minimum interval between doses shall be considered a valid dose of the vaccine for purposes of this chapter. A dose administered greater than 4 days prior to minimum age or interval for a dose is invalid for purposes of this regulation and shall be repeated.

§ 23.85. Responsibilities of schools and school administrators.

- (a) *Inform of requirements and ascertain immunization status*. The administrator in charge of a school shall appoint a knowledgeable person to perform all of the following:
- (1) Inform the parent, guardian or emancipated child at registration or prior to registration, if possible, of the requirements of this subchapter.
- (2) Ascertain the immunization status of a child prior to admission to school or continued attendance at school.
- (i) The parent, guardian or emancipated child shall be asked for a completed certificate of immunization.
- (ii) In the absence of a certificate of immunization, the parent, guardian or emancipated child shall be asked for a record or history of immunization which indicates the month, day and year that immunizations were given. This information shall be recorded on the certificate of immunization and signed by the school official or the school official's designee, or the details of the record shall be stored in a computer database.
- (b) Admission to school or continued attendance. If the knowledgeable person designated by the school administrator is unable to ascertain whether a child has received the immunizations required under § 23.83 (relating to immunization requirements) or under subsection (e) or is exempt under § 23.84 (relating to exemption from immunization), the school administrator may admit the child to school or allow the child's continued attendance at school only according to the requirements of subsections (d) and (e).
- (c) *Inform of specific immunization requirements*. The parent or guardian of a child or the emancipated child who has not received the immunizations required under § 23.83 shall be informed of the specific immunizations required and advised to go to the child's usual source of care or nearest public clinic to obtain the required immunizations.
- (d) Requirements under which admission or continued attendance is permitted. A child not previously admitted to or not allowed to continue attendance at school because the child has not had the required immunizations shall be admitted to or permitted to continue attendance at school only upon presentation to the school administrator or school administrator's designee of a completed certificate of immunization or immunization record, upon submission of information sufficient for an exemption under § 23.84, or upon compliance with subsection (e).

- (e) Provisional admittance to school.
- (1) Multiple dose vaccine series. If a child has not received all of the antigens for a multiple dose vaccine series described in § 23.83 on the child's first day of attendance for that school year, the school administrator or the school administrator's designee may not provisionally admit the child to school unless the child has at least one dose of each multiple dose vaccine series required under § 23.83, and one of the following occurs:
- (i) The child receives the final dose of each multiple dose vaccine series required under § 23.83 within 5 school days of the child's first day of attendance, and the child's parent or guardian provides a certificate of immunization on or before the 5th school day.
- (ii) If the child needs additional doses of a multiple dose vaccine series to meet the requirements of § 23.83, the child receives the next scheduled dose during the 5 school days referenced in subparagraph (i), and the child's parent or guardian provides a medical certificate on or before the 5th school day scheduling the additional required doses.
- (iii) If the child needs additional doses of a multiple dose vaccine series to meet the requirements of § 23.83, but the next dose is not medically appropriate during the 5 school days referenced in subparagraph (i), the child's parent or guardian provides a medical certificate on or before the 5th school day scheduling the additional required doses.
- (2) Single dose vaccines. If a child has not received a vaccine for which only a single dose is required on the child's first day of attendance for that school year, the child may not be admitted to school.
- (3) Completion of required immunizations. The medical certificate shall be reviewed at least every 30 days by the school administrator or the school administrator's designee. Subsequent immunizations shall be entered on the certificate of immunization or entered in the school's computer database. Immunization requirements described in § 23.83 shall be completed in accordance with the requirements of the medical certificate. If, upon review, the requirements of the medical certificate are not met, the school administrator or the school administrator's designee may exclude the child from school.
- (4) *Medical certificate*. A school shall maintain the medical certificate until the official school immunization record is completed.
- (f) Certificate of immunization. A school shall maintain on file a certificate of immunization for a child enrolled. An alternative to maintaining a certificate on file is to transfer the immunization information from the certificate to a computer database. The certificate of immunization or a facsimile thereof generated by computer shall be returned to the parent, guardian or emancipated child or the school shall transfer the certificate of immunization (or facsimile) with the child's record to the new school when a child withdraws, transfers is promoted, graduates or otherwise leaves the school.
 - (g) Applicability. This section does not apply to a child if one of the following occurs:
- (1) The child has not been immunized or is unable to provide immunization records due to being homeless. A school shall comply with Federal laws pertaining to the educational rights of homeless children, including the McKinney-Vento Homeless Education Assistance Improvements Act of 2001 (42 U.S.C.A. §§ 11431—11435).

- (2) The child, when moving or transferring into a school in this Commonwealth, is unable to provide immunization records immediately upon enrollment into the school. The child's parent or guardian shall have 30 days to provide immunization records to the school to show proof of immunization as set forth in § 23.83, a medical certificate as set forth in subsection (e) or to satisfy the requirements for an exemption as set forth in § 23.84. A child who is unable to provide the necessary records, medical certificate or exemption may be excluded at the end of the 30-day period and in subsequent school years until the requirements of this subchapter are met.
- (3) The child has not been immunized or is unable to provide immunization records on the first day of attendance for the school year due to being in foster care. A school shall comply with Federal laws pertaining to the educational rights of children in foster care, including the Fostering Connections to Success and Increasing Adoptions Act of 2008 (42 U.S.C.A. §§ 670—679c). The child's foster parent shall have 30 days to provide immunization records to the school to show proof of immunization as set forth in § 23.83, a medical certificate as set forth in subsection (e) or to satisfy the requirements for an exemption as set forth in § 23.84. A child who is unable to provide the necessary records, medical certificate or exemption may be excluded at the end of the 30-day period and in subsequent school years until the requirements of this subchapter are met.
 - (4) The child obtains an exemption under § 23.84.
- (h) *Temporary waiver*. The Secretary may issue a temporary waiver of the immunization requirements in § 23.83. The details of the temporary waiver will be set out in a notice published in the *Pennsylvania Bulletin*. A temporary waiver may be issued under either of the following circumstances:
- (1) The Centers for Disease Control and Prevention, United States Department of Health and Human Services, recognizes a Nationwide shortage of supply for a particular vaccine.
- (2) In the event of a disaster impacting the ability of children transferring into a school to provide immunization records.

§23.86. School reporting.

- (a) A public, private, parochial or nonpublic school in this Commonwealth, including vocational schools, intermediate units, special education and home education programs, and cyber and charter schools, shall report immunization data to the Department **electronically** by December 31 of each year using a format and system provided by the Department.
- (b) In the event a public, private, parochial or nonpublic school has no access to a computer with internet, it shall report to the Department by December 15 of each year using a form provided by the Department.
- (c) The school administrator or the school administrator's designee shall forward the reports to the Department as indicated on the reporting form provided by the Department.
- (d) Duplicate reports shall be submitted to the county health department if the school is located in a county with a full-time health department.

- (e) The school administrator or the school administrator's designee shall ensure that the school's identification information, including the name of the school, school district, county and school address, is correct, and shall make any necessary corrections prior to submitting the report.
 - (f) Content of the reports must include all of the following information:
 - (1) The month, day and year of the report;
- (2) The number of students attending school in each grade-level, or in an ungraded school, in each age group, as indicated on the reporting form;
- (3) The number of doses of each individual antigen given in each grade-level, or in an ungraded school, in each age group, as indicated on the reporting form;
- (4) The number of students attending school who were classed as medical exemptions in each grade-level, or in an ungraded school, in each age group, as indicated on the reporting form;
- (5) The number of students attending school who were classed as religious exemptions in each grade level, or in an ungraded school, in each age group, as indicated on the reporting form;
- (6) The number of students provisionally admitted in each grade level or, in an ungraded school, in any age group, as indicated on the reporting form;
- (7) The number of students in kindergarten, 7th grade, 12th grade, (12 years of age only and 18 years of age only), or in an ungraded school, who were denied admission and continue to not attend due of the student's inability to provide documentation of the required vaccine doses; and
 - (8) Other information as required by the Department.
 - (c) Questions concerning this subchapter should be addressed to: Pennsylvania Department of Health Division of Immunizations
 Health and Welfare Building, Room 1026
 625 Forster St.
 Harrisburg, PA 17120-0701
 717-787-5681

APPENDIX B

Name______Birthdate_

CERTIFICATE OF IMMUNIZATION

PENNSYLVANIA DEPARTMEN VACCINE Circle appropriate item Diphtheria, tetanus and acellular pertussis (DTaP, DTP, Td or DT) Tetanus, diphtheria and acellular pertussis (Tdap) 1 Polio (OPV or IPV) Hepatitis B Measles - mumps - rubella (MMR) 1 Varicella (vaccine or disease) 1 //	TOF HEA	4 5 LTH —	CERTIF nen immuniz	American Indian or Alaskan Native 7 8 9 10 11 12 Other CICATE OF IMMUNIZATION ization doses listed below were given. 3 / / 4 / / 5 / / 3 / / 4 / / 5 / / 3 / / 4 / / 5 / / or Measles serology Date Titer Rubella serology Date Titer Mumps disease diagnosed by a physician: Date H502.320 Rev.
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	MEDIC	CAL EX	EMPTI	ON
The physical condition of the above-named	child is such t	that imm	unization	a would endanger life or health
Signed		triat illili		Date
(PHYSIC	CIAN)			
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s	State your rea	son for r	equesting	g this exemption.
				HICAL CONVICTION EXEMPTION g this exemption.

(Date)

(PARENT OR GUARDIAN)

APPENDIX C

MEDICAL CERTIFICATE

PENNSYLVANIA DEPARTMENT OF HEALTH - MEDICAL CERTIFICATE Name. Birthdate _ Parent or Guardian _ Address ____ Telephone __ Please circle present grade: 7 Other _ 3 5 11 12 Enter month, day and year each immunization will be given VACCINE Circle appropriate item DOSES Diphtheria,tetanus and acellular pertussis (DTaP, DTP, Td or DT) Tetanus, dipheria and acellular pertussis Polio (OPV or IPV) Hepatitis B 5 Measles - mumps - rubella (MMR) Titer or measles serology Date Rubella serolugy Date Titer Meningococcal (MCV) 1 / / 1 1 2 / / Mumps disease diagnosed by a physician: Date

Attach EHR of vaccines already given.

H502.320 3/17

Signature (PLEASE CIRCLE - physician, certified registered nurse practitioner, physician assistant, local health department)

APPENDIX D

COMMONWEALTH OF PENNSYLVANIA SCHOOL IMMUNIZATION LAW REPORT

SILR is open for reporting December 1st through December 31st

Section 1

WORKSHEET

TO EXCLUDE YOUR SCHOOL If your school should be excluded and you are unable to file your exclusion electronically, check one of the boxes below. This form should then be sent to the address provided. Exclusions are to be filed electronically when possible.						p	rofessi	onal	? (N		or appr chool N			N,	_					
Exclusion reasons:							Job title:													
School is closed							Telephone number:													
Students are enrolled at home school district								Date:												
There is no K		Complete the above information.																		
Is this entity a preschool/daycare?								Only if you do not have access to a												
ATTENTION SCHOOL NURSE AUN#									con	npute		ail thi			Depa	rtmen	t			
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within school:	Grade Section	# of Students Enrolled	# of Students Medical Exempt	# of Students Religious Exempt	# of Students Philosophical /Strong Moral or Ethical	# of Students Enrolled Provisionally	# of Students Denied Admission	DTaP/DTP/DT	4 doses or more	4 doses or more	MMR 2 doses or more	HepB 3 doses or more	/aricella Iad disease	Varicella 2 doses	Tdap/Td 1dose	4CV	MCV Age 16	dose only	N.	doses
Grade K		# o En	# o Mec	# o Reli	# of Phila Mor	# o Enr Pro	# o Der	DI .	4 dose	4 d	MN 2 dc	He 3 de	Var Hac	Var 2 de	Tdap 1dose	MCV 1 dose	<u> </u>	older 1 dose	MCV	2 de
Grade 7																				
Grade 12																				
	12th Grade																			
*There is more information								-												
ABOVE IS THE WORKSHEET FOR 2018-19 SCHOOL IMMUNIZATION LAW REPORT (SILR) DUE: December 31, 2018																				
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APPENDIX E

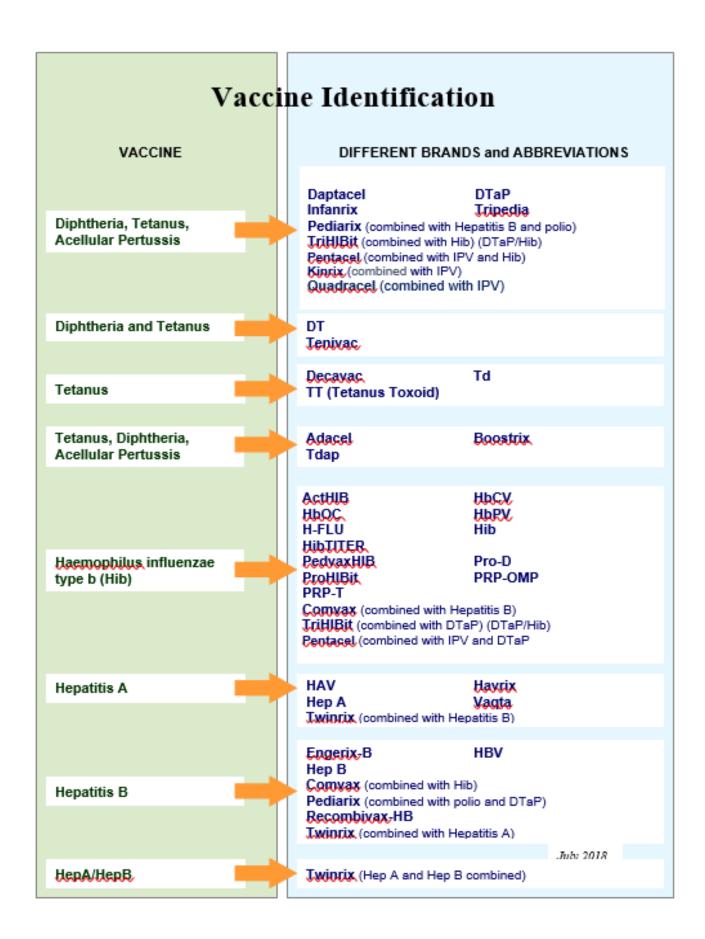
Pennsylvania Department of Health and County-Municipal Health Departments Immunization Contacts

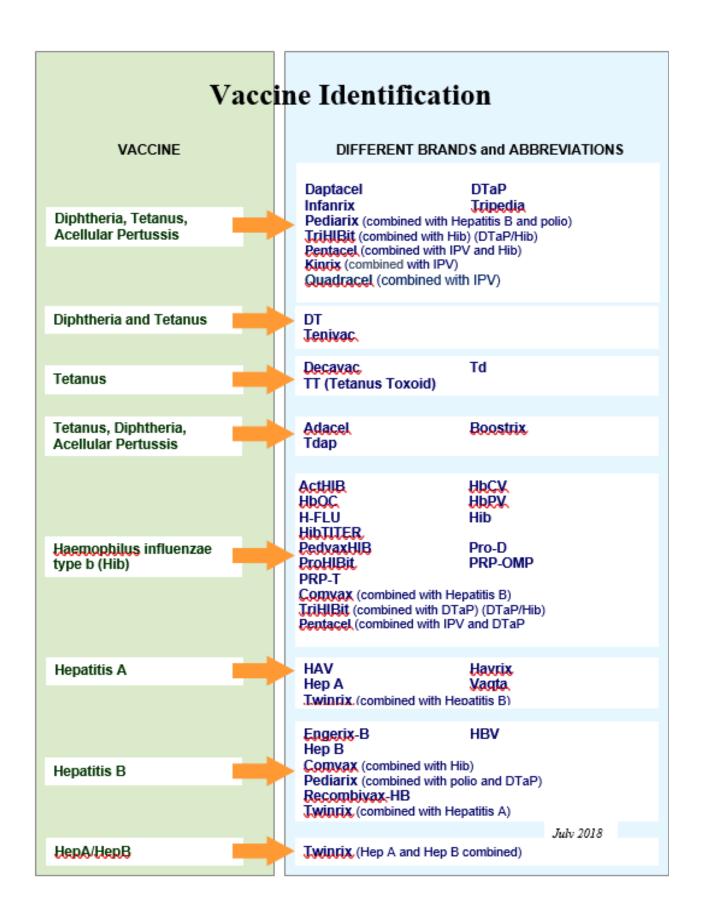
NORTHEASTERN DISTRICT	COUNTIES	
Immunization Coordinators	Carbon	Northampton
School Health Consultant	Lackawanna	Pike
665 Carey Ave., Suite 5	Lehigh	Susquehanna
Wilkes-Barre, PA 18706-5485	Luzerne	Wayne
Phone: 570-826-2062	Monroe	Wyoming
Fax: 570-826-2238	1/1011100	,, yennig
1 27 3 22 22 3		
SOUTHEASTERN DISTRICT	COUNTIES	
Immunization Coordinators	Berks	Lancaster
Reading State Office Building	Bucks	Montgomery
625 Cherry St., Room 442	Chester	Schuylkill
Reading, PA 19602-1187	Delaware	
Phone: 610-378-4352		
Fax: 610-378-4527		
NORTHCENTRAL DISTRICT	COUNTIES	
Immunization Coordinators	Bradford	Northumberland
Water Tower Square	Centre	Potter
1000 Commerce Park Drive	Clinton	Snyder
Suite 109	Columbia	Sullivan
Williamsport, PA 17701-5996	Lycoming	Tioga
Phone: 570-327-3400	Montour	Union
Fax: 570-327-3748		
COUTHCENTS AT DIOTRICT	COUNTRIES	
SOUTHCENTRAL DISTRICT	COUNTIES	Hyptingdon
Immunization Coordinators	Adams	Huntingdon
School Heath Consultant	Bedford	Juniata
30 Kline Plaza	Blair	Lebanon
Harrisburg, PA 17104	Cumberland	Mifflin
Phone: 717-787-8092	Dauphin	Perry
Fax: 717-787-3151	Franklin	York
	Fulton	
	Fulton	
	Fulton	

NORTHWESTERN DISTRICT	COUNTIES	
Immunization Coordinators	Cameron	Jefferson
School Health Consultant	Clarion	Lawrence
19 McQuiston Drive	Clearfield	McKean
Jackson Center, PA 16133	Crawford	Mercer
Phone: 724-662-6068	Elk	Venango
Fax: 724-662-6086	Erie	Warren
	Forest	
SOUTHWESTERN DISTRICT	COUNTIES	
Immunization Coordinators	Allegheny	Greene
233 West Otterman St.	Armstrong	Indiana
Greensburg, PA 15601-2305	Beaver	Somerset
Phone: 724-830-2701	Butler	Washington
Fax: 724-832-5327	Cambria	Westmoreland
	Fayette	

County Municipal Health Departments

Allegheny County Health Department 412-687-2243	Erie County Department of Health 814-451-6700
Allentown Bureau of Health 610-437-7760	Montgomery County Health Department 610-278-5117
Bethlehem Bureau of Health 610-865-7087/7083	Wilkes-Barre City Health Department 570-208-4268
Bucks County Department of Health 215-345-3318	York City Bureau of Health 717-849-2299
Chester County Health Department 610-344-6225	Philadelphia Department of Health 215-685-6740





APPENDIX G

Recommended and Minimum Ages and Intervals Between Doses of Routinely Recommended Vaccines 1,2,3,4									
Vaccine and dose number	Recommended age for this dose	Minimum age for this dose	Recommended interval to next dose	Minimum interval to next dose					
Diphtheria-tetanus-acellular pertussis (DTaP)-1 ⁵	2 months	6 weeks	8 weeks	4 weeks					
DTaP-2	4 months	10 weeks	B weeks	4 weeks					
DTaP-3	6 months	14 weeks	6-12 months ⁶	6 months ⁶					
DTaP-4	15-18 months	15 months ⁶	3 years	6 months					
DTaP-5 ⁷	4-6 years	4 years							
Haemophilus influenzae type b (Hib)-18	2 months	6 weeks	8 weeks	4 weeks					
Hib-2	4 months	10 weeks	8 weeks	4 weeks					
Hib-3 ⁹	6 months	14 weeks	6-9 months	8 weeks					
Hib-4	12-15 months	12 months	_	_					
Hepatitis A (HepA)-1 ⁵	12-23 months	12 months	6-18 months	6 months					
HepA-2	≥18 months	18 months		_					
Hepatitis B (HepB)-1 ¹⁰	Birth	Birth	4 weeks-4 months	4 weeks					
HepB-2	1-2 months	4 weeks	8 weeks-17 months	8 weeks					
HepB-3 ¹¹	6-18 months	24 weeks							
Herpes zoster Live (ZVL) ¹²	≥60 years	60 years	_	_					
Herpes zoster Recombinant (RZV)-1	≥50 years	18 years	2-6 months	4 weeks					
RZV-2	≥50 years (+2-6 months)	50 years	_	_					
Human papillomavirus (HPV)-1 ¹³	11-12 years	9 years	8 weeks	4 weeks					
HPV-2	11-12 years (+ 2 months)	9 years (+ 4 weeks)	4 months	12 weeks ¹³					
HPV-313,14	11-12 years (+ 6 months)	9 years (+5 months)	_	_					
Influenza, inactivated (IIV) ¹⁵	≥6 months	6 months ¹⁶	4 weeks	4 weeks					
Influenza, live attenuated (LAIV) ¹⁵	2-49 years	2 years	4 weeks	4 weeks					
Measles-mumps-rubella (MMR)-1 ¹⁷	12-15 months	12 months	3-5 years	4 weeks					
MMR-2 ¹⁷	4-6 years	13 months	_	_					
Meningococcal conjugate (MenACWY)-118	11-12 years	6 weeks ¹⁹	4-5 years	8 weeks					
MenACWY-2	16 years	11 years ²⁰ (+ 8 weeks)	_	_					
Pneumococcal conjugate (PCV13)-18	2 months	6 weeks	8 weeks	4 weeks					
PCV-2	4 months	10 weeks	8 weeks	4 weeks					
PCV-3	6 months	14 weeks	6 months	8 weeks					
PCV-4	12-15 months	12 months		_					
Pneumococcal polysaccharide (PPSV)-1	_	2 years	5 years	5 years					
PPSV-2 ²¹	_	7 years	_	_					
Poliovirus, Inactivated (IPV)-1 ⁵	2 months	6 weeks	8 weeks	4 weeks					
IPV-2	4 months	10 weeks	8 weeks-14 months	4 weeks					
IPV-3	6-18 months	14 weeks	3-5 years	6 months					
IPV-4 ²²	4-6 years	4 years	_	_					
Rotavirus (RV)-1 ²³	2 months	6 weeks	8 weeks	4 weeks					
RV-2	4 months	10 weeks	8 weeks	4 weeks					
RV-3 ²³	6 months	14 weeks	_						
Tetanus-diphtheria (Td)	11-12 years	7 years	10 years	5 years					
Tetanus-diphtheria-acellular pertussis (Tdap) ²⁴	≥11 years	7 years	_	_					
Varicella (Var)-1 ¹⁷	12-15 months	12 months	3-5 years	12 weeks ²⁵					
Var-2 ¹⁷	4-6 years	15 months ²⁶							

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- 1 Combination vaccines are available. Use of licensed combination vaccines is generally preferred to separate injections of their equivalent component vaccines. When administering combination vaccines, the minimum age for administration is the oldest age for any of the individual components. The minimum interval between doses is equal to the greatest interval of any of the individual components.
- 2 Information on travel vaccines including typhoid, Japanese encephalitis, and yellow fever, is available at www.cdc.gov/travel. Information on other vaccines that are licensed in the US but not distributed, including anthrax and smallpox, is available at https://emergency.cdc.gov/bioterrorism/.
- 3 "Months" refers to calendar months.
- 4 A hyphen used to express a range (as in "12-15 months") means "through."
- 5 Combination vaccines containing a hepatitis B component (Pediarix and Twinrix) are available. These vaccines should not be administered to infants vounger than 6 weeks because of the other components (i.e., Hib, DTaP, HepA, and IPV).
- 6 The minimum recommended interval between DTaP-3 and DTaP-4 is 6 months. However, DTaP-4 need not be repeated if administered at least 4 months after DTaP-3. This is a special grace period of 2 months, which can be used when evaluating records retrospectively. An additional 4 days should not be added to this grace period prospectively, but can be added retrospectively.
- 7 If a fourth dose of DTaP is given on or after the fourth birthday, a fifth dose is not needed.
- 8 Children receiving the first dose of Hib or PCV13 vaccine at age 7 months or older require fewer doses to complete the series.
- 9 If PedvaxHib is administered at ages 2 and 4 months, a dose at age 6 months is not required. The minimum age for the final dose is 12 months.
- 10 Adjuvented Hepatitis B vaccine (Heplisav-B) can be administered to adults 18 years old and older on a two-dose schedule, the first and second doses separated by 4 weeks.
- 11 HepB-3 should be administered at least 8 weeks after HepB-2 and at least 16 weeks after HepB-1, and should not be administered before 24 weeks of age
- 12 Herpes zoster live vaccine (Zostavax) is recommended as a single dose for persons 60 years of age and older.
- 13 Gardasil and Gardasil 9 are approved for males and females 9 through 26 years of age. The minimum age for HPV-3 is based on the baseline minimum age for the first dose (i.e., 9 years) and the minimum interval of 5 months between the first and third dose. Dose 3 need not be repeated if it is administered at least 5 months after the first dose, and if the intervals between doses 1 and 2, and doses 2 and 3, are 4 weeks and 12 weeks, respectively.
- 14 A two-dose HPV vaccine schedule is recommended for most persons who begin the series before the 15th birthday. See www.cdc.gov/mmwr/volumes/85/wr/pdfs/mm8549a5.pdf for details.
- 15 One dose of influenza vaccine per season is recommended for most people. Some children younger than 9 years of age should receive 2 doses in a single season. See current influenza recommendations for details.
- 16 The minimum age for inactivated influenza vaccine varies by vaccine manufacturer. See package inserts for vaccine-specific minimum ages.
- 17 Combination MMRV vaccine can be used for children 12 months through 12 years of age. See www.cdc.gov/mmwr/pdf/rr/rr5903.pdf for details.
- 18 Revaccination with meningococcal vaccine is recommended for previously vaccinated persons who remain at high risk for meningococcal disease. See www.cdc.gov/mmwr/pdf/rr/rr6202.pdf for details.
- 19 High-risk children can receive Menactra as young as 9 months and Menveo as young as 2 months. MenHibrix is given as a four-dose series at 2, 4, 6, and 12-18 months. It can be given as young as 6 weeks for high-risk children.
- 20 For routine, non-high risk adolescent vaccination, the minimum age for the booster dose is 16 years.
- 21 A second dose of PPSV23 5 years after the first dose is recommended for persons ≤85 years of age at highest risk for serious pneumococcal infection, and for those who are likely to have a rapid decline in pneumococcal antibody concentration. See www.cdc.gov/mmwr/PDF/rr/rr4608.pdf for details.
- 22 A fourth dose is not needed if the third dose was administered on or after the 4th birthday and at least 6 months after the previous dose.
- 23 The first dose of rotavirus must be administered no earlier than 6 weeks and no later than 14 weeks 6 days. The vaccine series should not be started for infants 15 weeks 0 days or older. Rotavirus vaccine should not be administered to children older than 8 months 0 days, regardless of the number of doses received before that age. If two doses of Rotarix are administered as age appropriate, a third dose is not necessary.
- 24 Only one dose of Tdap is recommended. Subsequent doses should be given as Td. For management of a tetanus-prone wound in a person who has received a primary series of a tetanus-toxoid containing vaccine, the minimum interval after a previous dose of any tetanus-containing vaccine is 5 years.
- 25 A special grace period of 2 months, based on expert opinion, can be applied to the minimum interval of 3 months, when evaluating records retrospectively, which results in an acceptable minimum interval of 4 weeks. An additional 4 days should not be added to this grace period.
- 26 A special grace period of 2 months, based on expert opinion, can be applied to the minimum age of 15 months when evaluating records retrospectively, which will result in an acceptable minimum age of 13 months. An additional 4 days should not be added to this grace period.

Adapted from Table 3-1, ACIP General Best Practice Guidelines for Immunization.

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