

# STATE OF COLORADO

Bill Ritter, Jr., Governor  
James B. Martin, Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.  
Denver, Colorado 80246-1530  
Phone: (303) 692-2000  
TDD Line (303) 691-7700

Located in Glendale, Colorado

<http://www.cdphe.state.co.us>

Laboratory Services Division  
8100 Lowry Blvd.  
Denver, Colorado 80220-6928  
(303) 692-3090



Colorado Department  
of Public Health  
and Environment

July, 2009

Dear Health Care Provider:

The 2009 update to the *Colorado Immunization Manual: State guidelines for immunization screening, administration, documentation, reporting and resources* to aid in your clinical practice is now available. Due to increased printing costs and the “greening of Colorado government” the manual is being offered primarily as an online manual with this edition. It can be accessed electronically at <http://www.cdphe.state.co.us/dc/Immunization/immunmanual/immunmanual.html>. Limited hard copies of the manual contents will be available from our partner organization, Colorado Children’s Immunization Coalition (CCIC), at your expense. Binders and divider tabs can be purchased for an additional fee. To order a copy of the manual please contact CCIC at (720) 777-5340 or [ccicoffice@tchden.org](mailto:ccicoffice@tchden.org). Ordering information will also be available on the CCIC website <http://www.childrensimmunization.org/CIM>.

This edition of the manual has many updates and additions. I encourage you to review the manual and especially the section regarding improving vaccination coverage levels. Your help is needed to protect Colorado’s children!

Representatives from the Colorado Chapter of the American Academy of Pediatrics (CAAP), the Colorado Nurses Association (CNA), The Colorado Academy of Family Physicians (CAFP) and the Colorado Society of Osteopathic Medicine (CSOM) serve on the manual Advisory committee. They have provided guidance on the recommendations during this review and update process as well as their endorsement of this resource manual. **Special thanks go to all those providing their time and expertise in the 2009 revisions to this manual and to Karen Willeke, CDPHE Immunization Program Public Health Nurse Consultant, for spearheading these efforts.** The primary references used include Advisory Committee on Immunization Practices recommendations, the most current edition of the Centers for Disease Control and Prevention (CDC) *Epidemiology & Prevention of Vaccine-Preventable Disease*, the *Pink Book* and the *Red Book of the American Academy of Pediatrics (AAP)*.

To ensure this resource manual continues to meet the needs of all users, comments and suggestions are solicited through an annual customer satisfaction survey. Results from the survey help guide the Advisory committee in appropriately updating the manual. It is important that users of this manual recognize it is only a guideline and should not be adopted as an agency immunization policy manual without the review and approval of the medical officer or consultant.

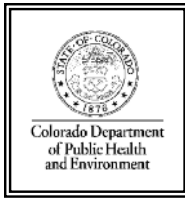
Please direct questions and comments regarding the manual to Karen Willeke at phone (877) 811-0012 or e-mail [Karen.willeke@state.co.us](mailto:Karen.willeke@state.co.us).

Sincerely,

Joni Reynolds, RN, MSN, CNS

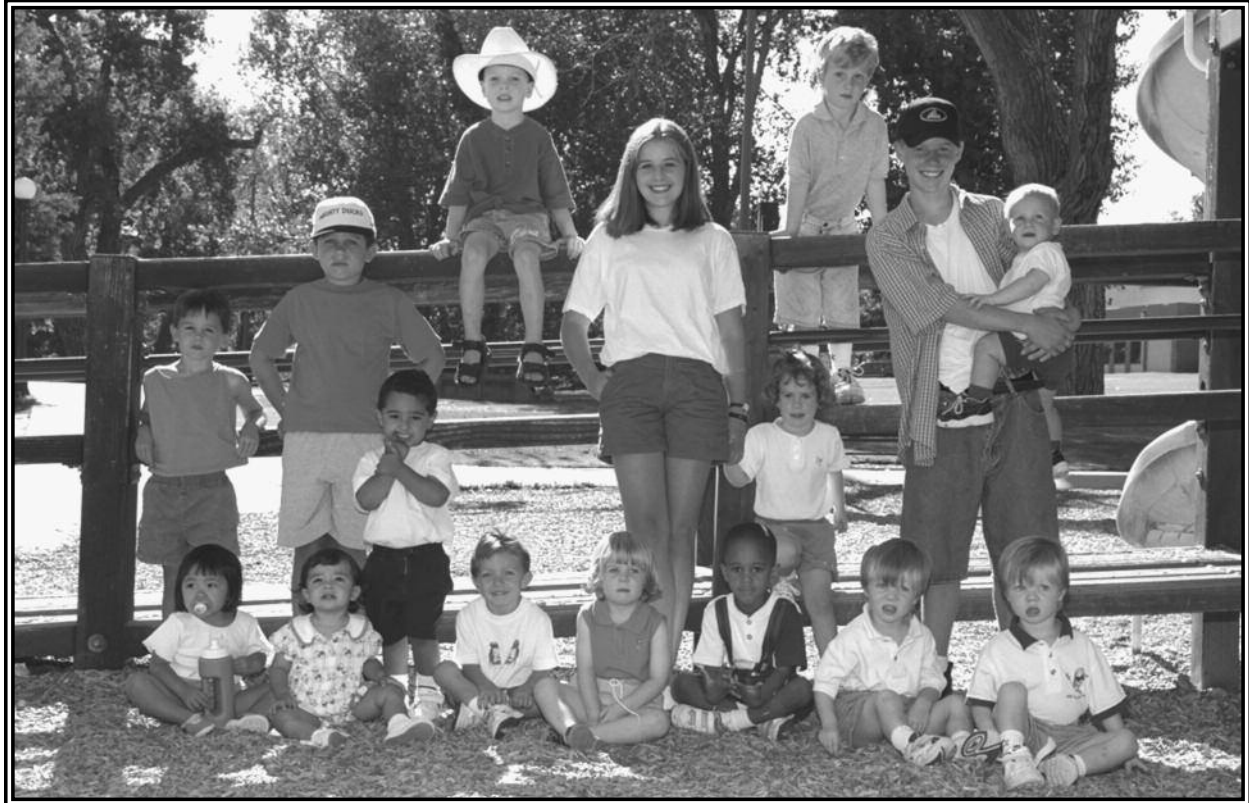
CDPHE Immunization Program Manager, Colorado Immunization Program





# Colorado Immunization Manual

State guidelines for immunization screening, administration, documentation, reporting and resources.



Photography by John Evans of Evans Photography

Representatives from the following partner organizations have provided their endorsement of this immunization resource manual:



# Acknowledgements

**Updates and revisions to the manual are a result of a collaborative partnership focused on increasing immunization coverage rates and eliminating vaccine preventable diseases. Special thanks go to the professionals who volunteered their time and expertise by serving on the CIM Advisory committee and Editorial committee including:**

Laura Beckowitz, Mountain View Medical Group  
Dr. Robert Brayden, The Children's Hospital/UCHSC  
Staci Bruce, Eagle County Public Health  
Laura Burczyk, Golden High School Clinic  
Dr. Constantine Georgiadis, Physician  
Salinda Medley, Sabatini Pediatrics  
Jenny Merriman, Jefferson County Public Health  
Dr. James Satt, Harmony Health Center  
Christine Schmidt, Jefferson County Public Health  
Michelle Wilson, Summit County Public Health

Jamie Damico, Nurse Consultant, CDPHE  
Cinda Ewing, Nurse Consultant, CDPHE  
Margaret Huffman, Nurse Consultant, CDPHE  
Lori Quick, Nurse Consultant, CDPHE  
Joni Reynolds, CDPHE Immunization Program Manager  
Rosemary Spence, Nurse Consultant, CDPHE  
Karen Willeke, Nurse Consultant, CDPHE  
Denise Woods-Stout, CDPHE  
Deb Zambrano, Nurse Consultant, CDPHE

**A special thank you to representatives of the following partner organizations who have reviewed and provided endorsement for the manual:**

Colorado Chapter of American Academy of Pediatrics (CAAP)  
Colorado Academy of Family Physicians (CAFP)  
Colorado Society of Osteopathic Medicine (CSOM)  
Colorado Nurse Association (CNA)

The original design work for this manual and its revisions are a result of the expertise provided by Rick Ciminelli at the Division of Central Services, IDS Design Center. We appreciate the long hours he continually commits to this project.

Colorado Department of Public Health and Environment  
Immunization Manual

# TABLE OF CONTENTS

SECTION	PAGE
<b>1. Ordering and Returning Vaccines and Printed Materials</b> . . . . .	<b>1-1</b>
Ordering Vaccines . . . . .	1-2
Vaccine Shipment Methods . . . . .	1-4
Receiving Vaccines . . . . .	1-5
Returning Vaccine . . . . .	1-6
Vaccine Order Form . . . . .	1-7
Vaccine Return Form . . . . .	1-8
Immunization Materials Order Form. . . . .	1-10
<b>2. Storage and Handling of Vaccines</b> . . . . .	<b>2-1</b>
Introduction . . . . .	2-3
Handling Vaccines . . . . .	2-5
Emergency Response . . . . .	2-13
Vaccine Management . . . . .	2-25
Other Resources . . . . .	2-47
VFC Materials . . . . .	2-51
<b>3. Vaccine Accountability and Documentation Requirements</b> . . . . .	<b>3-1</b>
Using Vaccine Information Statements . . . . .	3-2
What You Need to Know about Vaccination Information Statements and FAQs . . . . .	3-3
Vaccine Accountability and Documentation Requirements . . . . .	3-12
Notice of federal law. . . . .	3-14
Samples of immunization records and forms. . . . .	3-15
Vaccine Administration Record Sheet/Colorado Certificate of Immunization for Children and Teens . . . . .	3-15
Vaccine Administration Record Sheet/Colorado Certificate of Immunization for Children and Teens (instructional example) . . . . .	3-17
Vaccine Administration Record Sheet for Adults . . . . .	3-19
Expanded Vaccine Administration Record Sheet for Adults. . . . .	3-21
Expanded Vaccine Administration Record Sheet for Adults (instructional example) . . . . .	3-23
Yellow Child Immunization Record (parent-held) . . . . .	3-25
Adult Immunization Record Card. . . . .	3-27
School Certificate of Immunization. . . . .	3-28
Certificate of Immunization for College Students . . . . .	3-30
<b>4. Treatment of Vaccine Reactions.</b> . . . . .	<b>4-1</b>
Identifying signs and symptoms of vaccine reactions. . . . .	4-2
Medical Management of Vaccine Reactions in Children and Teens . . . . .	4-3
Medical Management of Vaccine Reactions in Adults . . . . .	4-5
<b>5. National Vaccine Injury Compensation Program (NVICP).</b> . . . . .	<b>5-1</b>
Commonly asked questions . . . . .	5-2
National Vaccine Injury Compensation Program (NVICP) vaccine injury table. . . . .	5-8
Adverse events reporting form . . . . .	5-11

<b>6. Parent and Patient Information</b> .....	<b>6-1</b>
Vaccine Information Statement Translations (table) .....	6-2
After the shots (English).....	6-3
After the shots (Spanish) .....	6-5
Screening questionnaire tool (English and Spanish) .....	6-6
Are you 11–19 years old? (English and Spanish).....	6-9
It’s federal law! .....	6-11
Accessing Vaccine Information Statements.....	6-12
Vaccine Information Statements (English and Spanish) .....	6-13
<b>7. Immunization Schedule</b> .....	<b>7-1</b>
Summary of ACIP/AAP/AAFP Recommendations.....	7-2
Recommended Adult Immunization Schedule .....	7-6
<b>8. Vaccines</b> .....	<b>8-1</b>
DTaP .....	8-2
DT .....	8-6
Td and Tdap.....	8-8
DTaP-Hib .....	8-12
DTaP-Hep B-IPV .....	8-13
DTaP-IPV .....	8-15
DTaP-Hib-IPV .....	8-16
Hib.....	8-18
Hib-Hep B .....	8-21
IPV.....	8-23
MMR.....	8-25
Varicella .....	8-28
MMRV.....	8-31
Hepatitis B .....	8-33
Hepatitis A .....	8-36
Hep A-Hep B .....	8-39
Pneumococcal Conjugate (PCV7).....	8-41
Influenza.....	8-44
Pneumococcal Polysaccharide (PPV23).....	8-47
Meningococcal.....	8-50
HPV.....	8-52
Zoster .....	8-54
Rotavirus .....	8-58
<b>9. Administration Techniques</b> .....	<b>9-1</b>
Vaccine administration techniques (MMWR).....	9-2
How to administer IM and SC injections .....	9-7
Vaccine Administration (Pink Book) .....	9-9
<b>10. Simultaneous Administration</b> .....	<b>10-1</b>
Simultaneous Administration of Vaccines .....	10-2
<b>11. Minimum Intervals</b> .....	<b>11-1</b>
Recommended and Minimum Ages and Intervals Between Doses of Routinely Recommended Vaccines.....	11-2

Suggested intervals between administration of antibody-containing products for different indications and measles-containing vaccine and varicella-containing vaccine . . . . .	11-4
<b>12. Special Situations and Conditions . . . . .</b>	<b>12-1</b>
Immunosuppression. . . . .	12-2
Vaccination of Persons with Primary and Secondary Immune Deficiencies . . . . .	12-4
Recent Blood Products . . . . .	12-6
Neurologic Disorders . . . . .	12-7
Pregnancy and Vaccination . . . . .	12-8
Pregnancy in the Household or Breastfeeding . . . . .	12-8
Newborns and Perinatal Hepatitis B Prevention . . . . .	12-9
<b>13. Contraindications. . . . .</b>	<b>13-1</b>
Guide to Contraindications and Precautions to Commonly Used Vaccines . . . . .	13-2
<b>14. Reporting Vaccine Preventable Diseases . . . . .</b>	<b>14-1</b>
What to report . . . . .	14-2
Who must report vaccine preventable diseases . . . . .	14-3
How to report vaccine preventable diseases. . . . .	14-3
References and Resources . . . . .	14-4
<b>15. Colorado Rules, Regulations, Laws . . . . .</b>	<b>15-1</b>
Rules of the Colorado Board of Health Pertaining to the Immunization of Students Attending School. . . . .	15-2
A note regarding to the Rules of the Colorado Board of Health Pertaining to the Infant Immunization Program. . . . .	15-12
Colorado Revised Statutes, 1989, Repl. Vol, Part 9. School Entry Immunization . . . . .	15-13
Colorado Revised Statutes, 1994, 25-4-1701 et. seq. Infant Immunization Act. . . . .	15-19
<b>16. Adult Immunization Information . . . . .</b>	<b>16-1</b>
<b>17. Vaccines for Children Program . . . . .</b>	<b>17-1</b>
Program Introduction and Summary. . . . .	17-2
Frequently Asked Questions about the VFC Program . . . . .	17-4
Protocol for Participation. . . . .	17-8
Provider Enrollment. . . . .	17-12
Provider Profile . . . . .	17-16
Patient Eligibility Screening Record. . . . .	17-22
Change of Information Form. . . . .	17-23
<b>18. Strategies to Improve Vaccine Coverage . . . . .</b>	<b>18-1</b>
<b>19. Additional Resources . . . . .</b>	<b>19-1</b>
Standards for Child and Adolescent Immunization Practices . . . . .	19-2
Standards for Adult Immunization Practices . . . . .	19-11
Immunization web sites and phone numbers including resources on vaccine safety information and travel immunization resources. . . . .	19-18
Local Public Health Agencies in Colorado . . . . .	19-21
Manufacturers Quality Control Telephone Numbers . . . . .	19-28
United States Vaccines . . . . .	19-29
Foreign Language Terms & Trade Names. . . . .	19-35