What’s In This Issue

Why Give Tdap during Each Pregnancy? .......... 1
Ask the Experts: CDC answers questions .......... 1
New! IAC Launches Major Redesign of vaccineinformation.org .................................................. 2
Vaccine Highlights: Recommendations, schedules, and more .................................................... 4
IAC Welcomes Dr. Litjen (L.J) Tan as Chief Strategy Officer ..................................................... 5
Summary of Recommendations for Adult Immunization ................................................................. 6
Pneumococcal Vaccines — CDC answers your questions ............................................................. 10
New! Pneumococcal Vaccination Recommendations by Age/Risk Factor .................................... 11
Do I Need Any Vaccinations Today? .................. 12
IAC’s Immunization Resources Order Form ........... 14

Looking for Free Immunization Education Materials for Your Patients?
Visit www.immunize.org/handouts

Why Give Tdap during Each Pregnancy?

At its October 2012 meeting, the Advisory Committee on Immunization Practices (ACIP) voted to recommend that healthcare personnel administer a dose of Tdap vaccine to pregnant women during each pregnancy—ideally at between 27 and 36 weeks’ gestation—regardless of the woman’s prior history of receiving Tdap. According to information presented at the meeting, Tdap is recommended for every pregnancy for the following reasons:

**Reported cases of pertussis have spiked.** As of October 2012, 32,645 pertussis cases had been reported in the U.S. for the year. It is anticipated that more cases will have been reported by the end of 2012 than in any other year since 1959.

**Youngest infants are the most vulnerable.** Among infants, those younger than age 2 months have the highest reported incidence of pertussis cases and highest percentage of hospitalizations and deaths. Infants this age are too young to receive even the first dose in the DTaP series. Therefore, we must protect them through other means.

Vaccinating the mother during pregnancy can protect the youngest infants. Several studies provide evidence supporting the existence of efficient transplacental transfer of pertussis antibodies. This is likely to provide protection early in an infant’s life, before he or she is old enough to begin the primary DTaP series. Tdap given at one pregnancy provides insufficient protection for subsequent pregnancies. In healthy non-pregnant adults who received Tdap, antibody levels peaked during the first month after vaccination. This was followed by substantial antibody decay after one year. ACIP presenters concluded that “antibody response in pregnant women would not likely be much different.”

**Data support the safety of Tdap for pregnant women and their infants.** In 2011, ACIP reviewed the Vaccine Adverse Event Reporting System’s safety data reports on use of Tdap in pregnant women. The reports showed no unusual or unexpected patterns of adverse events. Additionally, Ty and TT have been used extensively in pregnant women, and no evidence indicates that administering either vaccine during pregnancy causes harm to the fetus. The ACIP pertussis working group concluded, “the benefits of vaccination outweigh the theoretical risks of severe adverse events with multiple doses of Tdap.”

Administering Tdap during each pregnancy allows a mother to build an immune response and transfer it to her infant. It is a strategy that can protect our youngest infants from a serious disease before they are old enough to be vaccinated against it.

**Note:** For more information on administering Tdap during pregnancy, see “Ask the Experts” on page 5 of Vaccine Adults and refer to the materials on CDC’s pertussis web page at www.cdc.gov/pertussis.

---

Ask the Experts

IAC extends thanks to our experts, medical epidemiologist Andrew T. Kroger, MD, MPH; nurse educator Donna L. Weaver, RN, MN; and medical officer Iyabode Akinsanya-Beysolow, MD, MPH. All are with the National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention (CDC).

Immunization questions

**Is it still acceptable to use combination household units for storing vaccines?**

CDC strongly recommends using stand-alone refrigerators and freezers for the following reasons:

• Most combination household refrigerator/freezers have a combined temperature control unit that can create cold spots and temperature fluctuations in the refrigerator portion of the unit.

• The risk of freeze damage to refrigerated vaccines is increased in combination units because air from the freezer is vented into the refrigerator to cool it. This can freeze temperature-sensitive vaccines.

• The freezer portions of multiple combination units are not capable of maintaining the correct storage temperature for frozen vaccines.

Purchasing new vaccine storage equipment requires planning, and you need to use existing equipment for a while until you can purchase new equipment. In this situation, CDC recommends using a combination refrigerator/freezer unit for refrigerated vaccine only and using a separate stand-alone freezer to store frozen vaccines.

It is important to note that most combination refrigerator/freezers share a single condenser, and the very cold air from the freezer compartment is vented into the refrigerator compartment to cool the refrigerator. You should not turn off the freezer portion of the combination unit because it will not maintain the proper temperature for the refrigerated vaccines stored in the refrigerator portion of the unit. If you are using the refrigerator portion

(continued on page 5)

Immunization questions?

• Call the CDC-INFO Contact Center at (800) 232-4636 or (800) CDC-INFO
• Email nipinfo@cdc.gov
• Call your state health dept. (phone numbers at www.immunize.org/coordinators)

Stay current with FREE subscriptions

The Immunization Action Coalition’s 2 periodicals, *Vaccinate Adults* and *Needle Tips*, and our email news service, *IAC Express*, are packed with up-to-date information.

Subscribe to all 3 free publications in one place. It’s simple! Go to www.immunize.org/subscribe
of the combination unit, it is important that you not store vaccines directly under the vent coming from the freezer and that you add water bottles to the refrigerator to absorb cold air blown in from the freezer. This will reduce the risk of vaccines becoming too cold.

**What temperature is considered a temperature excursion on refrigerated vaccine? Frozen vaccine?**

Any temperature readings outside the ranges noted below are considered temperature excursions.
* For refrigerated vaccines, the minimum temperature is 35°F (2°C), and the maximum is 46°F (8°C).
* For frozen vaccines, the minimum temperature is -58°F (-50°C), and the maximum is 5°F (-15°C).

If there is a question about whether a vaccine has been exposed to a temperature excursion, label the vaccines “DO NOT USE” and store them under appropriate conditions, separate from other vaccines. Then, contact the vaccine manufacturer for further guidance. If you are a VFC provider, contact either the vaccine manufacturer and/or your state or local immunization program as directed by the VFC Program in your area.

**I keep hearing about changes to vaccine storage and handling recommendations. Why is CDC making these changes? And how can I make sure I am up to date with all the newest information?**

Good questions! The why behind these changes has two parts. First, it has become increasingly apparent to CDC and state health departments that improper vaccine storage and handling is a big problem, leading to a huge waste of product, time, and money, and more importantly, to unprotected people. Second, improved technology (e.g., digital data loggers) provides tools that uncover and measure problems and also prevent them.

As far as how to keep up, on November 27, 2012, CDC released its updated Vaccine Storage and Handling Toolkit at [www.cdc.gov/vaccines/recs/storage/toolkit/storage-handling-toolkit.pdf](http://www.cdc.gov/vaccines/recs/storage/toolkit/storage-handling-toolkit.pdf) and posted it on CDC’s Vaccine Storage and Handling Toolkit web section at [www.cdc.gov/vaccines/recs/storage/toolkit](http://www.cdc.gov/vaccines/recs/storage/toolkit). The Vaccine Storage and Handling Toolkit is based on the recommendations of ACIP, equipment manufacturers’ product information, and studies from the National Institute for Scientific Technology. The toolkit outlines best practice strategies and recommendations on the following topics:
* Equipment considerations for storage units and thermometers
* Maintenance of the cold chain
* Routine storage and handling practices
* Inventory management
* Emergency procedures for protecting vaccine inventories

Every vaccine provider should print out this document and read and reread it carefully. CDC has provided an overview of the new information as a separate item at [www.cdc.gov/vaccines/recs/storage/interim-storage-handling.pdf](http://www.cdc.gov/vaccines/recs/storage/interim-storage-handling.pdf), as well as a set of FAQs about the new recommendations at [www.cdc.gov/vaccines/recs/storage/interim-faq-storage-handling.pdf](http://www.cdc.gov/vaccines/recs/storage/interim-faq-storage-handling.pdf).
Vaccinates Adults! • February 2013 • Immunization Action Coalition • (651) 647-9009 • www.immunize.org • www.vaccineinformation.org

Is fainting after the first or second dose of HPV vaccine a contraindication to administering subsequent doses? No. Fainting is not a contraindication to administering a subsequent dose of any vaccine. Fainting after vaccination is fairly common in adolescence. Providers should prepare for the possibility by having patients sit or lie down when receiving the vaccine and observing patients for 15 minutes after vaccination. For more information on syncope and vaccination, visit the CDC website at www.cdc.gov/vaccinesafety/Concerns/syncope_faqs.html.

Some single-dose pre-loaded vaccines come with an air pocket in the syringe chamber. Do we need to expel the air pocket before vaccinating? No. You do not need to get rid of the air pocket. The air will be absorbed. This is not true for syringes that you fill yourself; you should expel air bubbles from these syringes prior to vaccination to the extent that you can readily do so.* (See editor’s clarification.)

Is it recommended to use a new alcohol swab to cleanse the skin before administering a vaccine, or can we swab the skin with the same alcohol swab that we used to wipe off the stopper on the vial? You should use separate alcohol wipes to clean the vial top and the patient’s skin.

To receive “Ask the Experts” Q&As by email, subscribe to the Immunization Action Coalition’s news service, IAC Express.

Special “Ask the Experts” issues are published five times per year. Subscribe at www.immunize.org/subscribe

To find more than a thousand “Ask the Experts” Q&As answered by CDC experts, go to www.immunize.org/askexperts

*Editor’s clarification: IAC wishes to clarify the IAC guidance on emptying air from single-dose pre-loading syringes, as we may have not clearly explained the distinction between filling the syringe yourself and using single-dose pre-loaded syringes. If you are using single-dose pre-loaded syringes, you should not expel the air pocket. On the other hand, if you are filling syringes yourself, you should expel air bubbles from the syringes prior to administration to the extent that you can easily do so.