

IMMUNIZATION UPDATE

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- 
- *One of the most important factors that influence a patient's decision to be vaccinated is a clear and unequivocal recommendation of the vaccine from the provider*

Immunization Records

- A verbal history of previous immunizations is not sufficient evidence.
- Accept as valid only immunizations that are documented in writing and dated.
- **When in doubt, vaccinate!**

Vaccination During Acute Illness

- There is no evidence that acute illness reduces vaccine efficacy or increases vaccine adverse reactions.
- Mild illness, such as otitis media or an upper respiratory infection, is NOT a contraindication to vaccination.

No need to take temps!



HPV Story



Human Papillomavirus

- More than 100 types
 - More than 60 cutaneous types
 - Can lead to skin warts
 - 40 mucosal types
 - high risk types (particularly 16 and 18)
 - cervical cell abnormalities
 - certain anogenital cancers
 - Low risk types (particularly 6 and 11)
 - cervical cell abnormalities- usually resolve spontaneously and do not lead to cancer
 - genital warts

HPV-associated Conditions

HPV 16, 18

	Estimated %
❑ Cervical cancer	70%
❑ High/low grade cervical abnormalities	30%-50%
❑ Anal, Vulvar, Vaginal, Penile	10%
❑ Head and neck cancers	10%

HPV 6, 11

❑ Low grade cervical abnormalities	90%
❑ Genital warts	90%

Human Papillomavirus Vaccines

- ❑ HPV4 (Gardasil)
 - ❑ contains types 16 and 18 (high risk) and types 6 and 11 (low risk)
- ❑ HPV2 (Cervarix)
 - ❑ contains types 16 and 18 (high risk)
- ❑ Both vaccines are supplied as a liquid in a single dose vial or syringe
- ❑ Neither vaccine contains an antibiotic or a preservative

Human Papillomavirus Vaccines

- ACIP recommends 9vHPV March 26, 2015
- USDA approved in December 2014
- 9vHPV adds types 31, 33, 45, 52, and 58
- Above types about 10% of HPV associated cancers

Human Papillomavirus Vaccines

- ❑ HPV4 vaccine is approved for
 - ❑ females 9 through 26 years of age for the prevention of cervical cancers, precancers and genital warts
 - ❑ males 9 through 26 years of age for the prevention of genital warts
- ❑ HPV2 vaccine is approved for
 - ❑ females 10 through 25 years of age for the prevention of cervical cancers and precancers
 - ❑ not approved for males or for the prevention of genital warts

HPV Vaccine Schedule and Intervals

- HPV4- 0, 2, 6 months
- HPV2- 0, 1, 6 months
- ACIP recommends- 0, 1 to 2, 6 months
- ACIP has not defined a maximum interval between HPV vaccine doses
- If the interval between doses is longer than recommended continue the series where it was interrupted

HPV Vaccine Recommendations

- Recommended age for routine HPV vaccination is 11 or 12 years
- Vaccination is recommended for females 13 through 26 years of age not previously vaccinated or who have not completed the full 3-dose series
- The 3 dose series of HPV4 may be administered to males 9 through 26 years of age to reduce their likelihood of acquiring genital warts

HPV Vaccine Contraindications and Precautions

- ❑ Severe allergic reaction to a vaccine component or following a prior dose
 - ❑ yeast (HPV4)
 - ❑ latex (HPV2 prefilled syringe)
- ❑ Moderate or severe acute illness

HPV Vaccine Adverse Reactions

- Local reaction 20% - 90%
(pain, redness, swelling)
- Temperature 100°F 10% - 13%
or higher
- Serious adverse events None

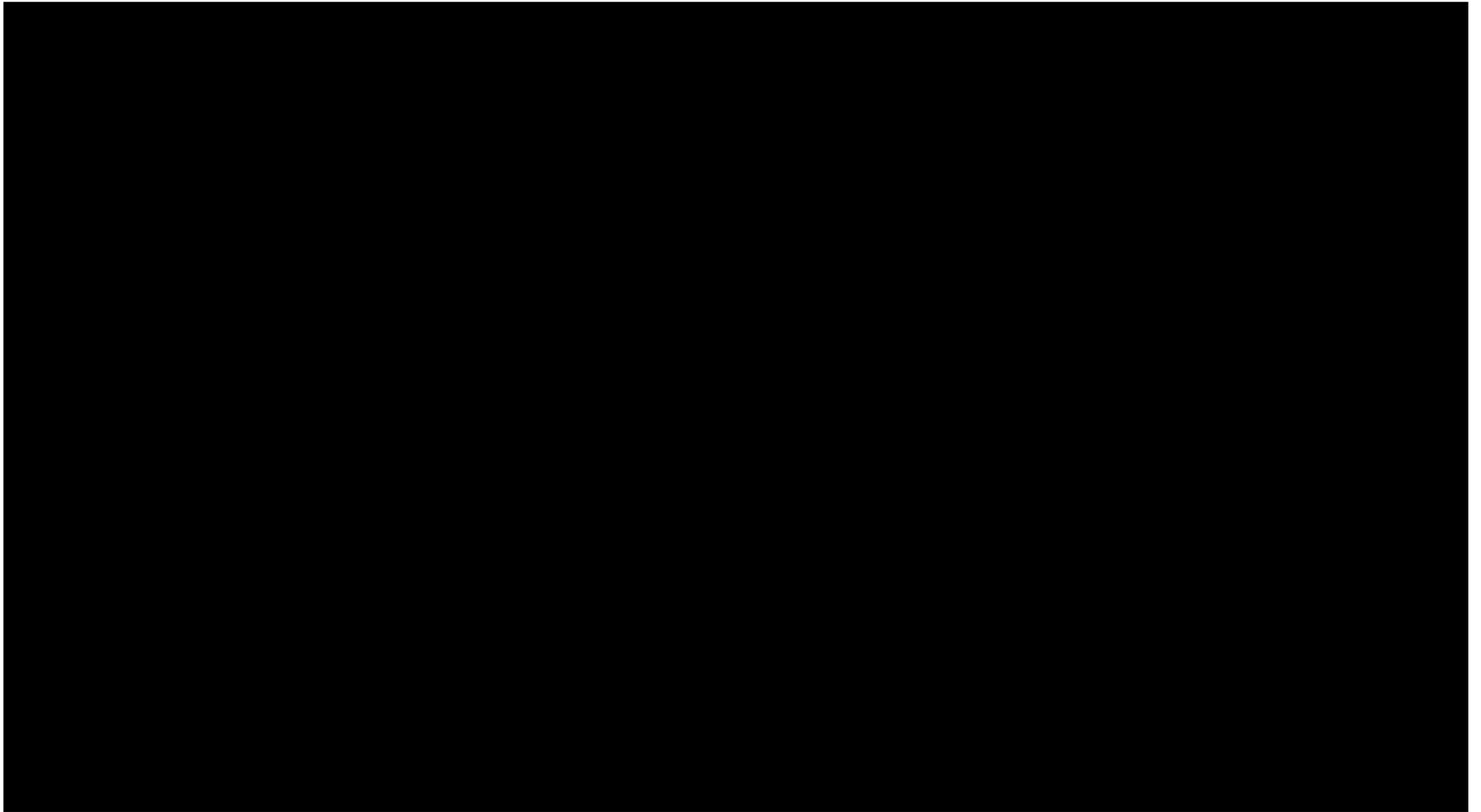
Challenges to Effective Communication

- Finding the time to communicate
- The science of vaccines and immunology is complicated.
- Language barriers
- Information resources

Teach Back Method

- Keep your message simple
- Advise the patients what to expect after the vaccination (VIS)
- Emphasize the return visits.

Teach Back Method

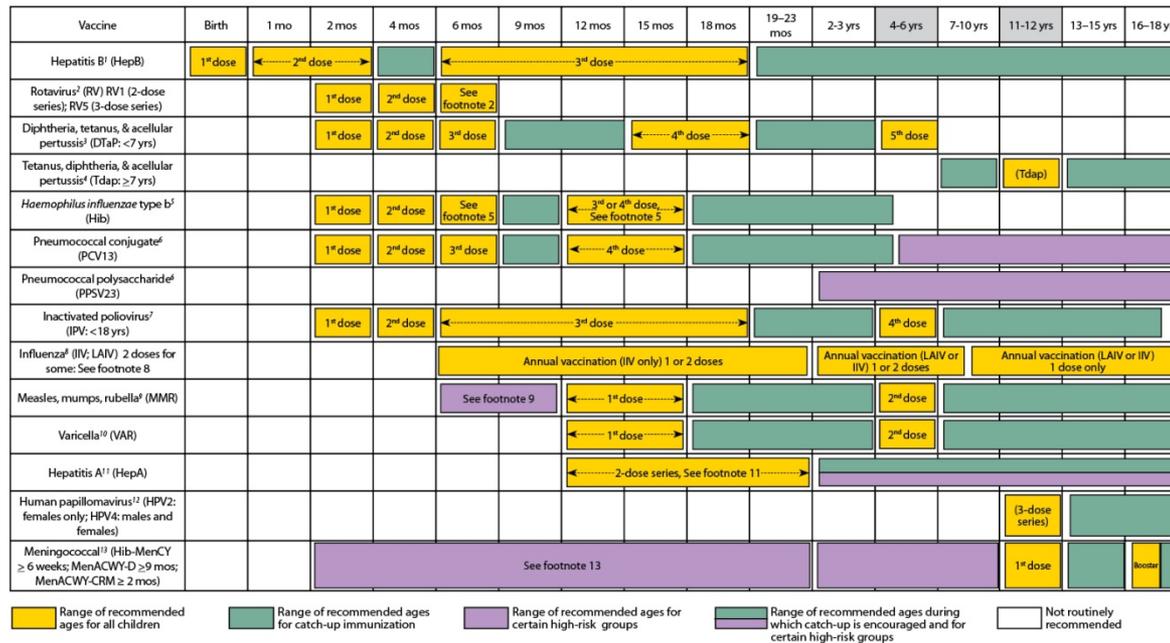


Immunization Schedule 2015

Figure 1. Recommended immunization schedule for persons aged 0 through 18 years – United States, 2015.

(FOR THOSE WHO FALL BEHIND OR START LATE, SEE THE CATCH-UP SCHEDULE (FIGURE 2)).

These recommendations must be read with the footnotes that follow. For those who fall behind or start late, provide catch-up vaccination at the earliest opportunity as indicated by the green bars in Figure 1. To determine minimum intervals between doses, see the catch-up schedule (Figure 2). School entry and adolescent vaccine age groups are shaded.



This schedule includes recommendations in effect as of January 1, 2015. Any dose not administered at the recommended age should be administered at a subsequent visit, when indicated and feasible. The use of a combination vaccine generally is preferred over separate injections of its equivalent component vaccines. Vaccination providers should consult the relevant Advisory Committee on Immunization Practices (ACIP) statement for detailed recommendations, available online at <http://www.cdc.gov/vaccines/hcp/acip-recs/index.html>. Clinically significant adverse events that follow vaccination should be reported to the Vaccine Adverse Event Reporting System (VAERS) online (<http://www.vaers.hhs.gov>) or by telephone (800-822-7967). Suspected cases of vaccine-preventable diseases should be reported to the state or local health department. Additional information, including precautions and contraindications for vaccination, is available from CDC online (<http://www.cdc.gov/vaccines/recs/vac-admin/contraindications.htm>) or by telephone (800-CDC-INFO [800-232-4636]).

This schedule is approved by the Advisory Committee on Immunization Practices (<http://www.cdc.gov/vaccines/acip/>), the American Academy of Pediatrics (<http://www.aap.org>), the American Academy of Family Physicians (<http://www.aafp.org>), and the American College of Obstetricians and Gynecologists (<http://www.acog.org>).

NOTE: The above recommendations must be read along with the footnotes of this schedule.

Immunization Schedule 2015

- Childhood
- Adult
- Interactive Schedule
- <http://www.cdc.gov/vaccines/schedules/hcp/child-adolescent.html>

Immunization Schedule 2015

- 2015 [CDC Vaccine Schedules app](#) for clinicians and other health care professionals offers you immediate access to CDC's latest recommended immunization schedules. See childhood, adolescent, adult and catch-up vaccine schedules and footnotes on your smartphone and tablet devices. Download this free app from the [iTunes App Store](#) or from [Google Play](#).
- Note: If you previously downloaded the tool, check that you have version 2.0.1 with 2015 schedules and footnotes

Jeopardy!

Immunizations Jeopardy!

Vaccine Safety,
Public Concern,
and Federal
Regulations

Special Populations

Vaccination
Strategies

Vaccine
Preventable
Illnesses

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