



The Medical **Bulletin**

In Immunology

All adults need one dose of tetanus, diphtheria, pertussis (Tdap) vaccine in place of one booster dose of tetanus-diphtheria (Td) vaccine to improve adult immunity to pertussis (whooping cough).

Zoster vaccine is indicated for adults ≥ 60 years old even if they have had an episode of herpes zoster infection.

Adolescent girls and boys should begin human papillomavirus (HPV) vaccine at age 11–12 to prevent HPV infection and reduce cervical cancer risk. Those who start at a later age can “catch up” through age 21 (men) or age 26 (women).

High-risk patients and those 65 years and older should receive two types of pneumococcal vaccine: pneumococcal conjugate vaccine (PCV13) and pneumococcal polysaccharide vaccine (PCV23) at least 12 months apart.

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