

**Immunizations that may be administered before, during, and after pregnancy**<sup>[1,2]</sup>

Vaccine	Before pregnancy	During pregnancy	After pregnancy	Type of vaccine
Hepatitis A	Yes, if indicated	Yes, if indicated	Yes, if indicated	Inactivated
Hepatitis B	Yes, if indicated	Yes, if indicated*	Yes, if indicated	Inactivated
Human papillomavirus (HPV)	Yes, if indicated	No, delay until after pregnancy, if indicated	Yes, if indicated	Inactivated
Influenza IIV	Yes	Yes	Yes	Inactivated
Influenza LAIV <sup>†</sup>	Yes, if less than 50 years of age and healthy; avoid conception for 4 weeks	No	Yes, if less than 50 years of age and healthy; avoid conception for 4 weeks	Live
MMR	Yes, if indicated, avoid conception for 4 weeks	No	Yes, if indicated, give immediately postpartum if susceptible to rubella	Live
Meningococcal:				
■ Quadrivalent conjugate (MenACWY)	If indicated	If indicated	If indicated	Inactivated
■ Serogroup B (MenB)	If indicated	No, delay until after pregnancy, if indicated <sup>Δ</sup>	If indicated	Inactivated
Pneumococcal:				
■ Polysaccharide	If indicated	If indicated	If indicated	Inactivated
Tdap	Yes, if indicated	Yes, vaccinate during each pregnancy ideally between 27 and 36 weeks of gestation	Yes, immediately postpartum, if not received previously	Toxoid/inactivated
Tetanus/diphtheria Td	Yes, if indicated	Yes, if indicated, Tdap preferred	Yes, if indicated	Toxoid
Varicella	Yes, if indicated, avoid conception for 4 weeks	No	Yes, if indicated, give immediately postpartum if susceptible	Live

LAIV: Live attenuated influenza vaccine; MMR: Measles, mumps, and rubella vaccine.

\* Conventional recombinant hepatitis B vaccines should be used during pregnancy. Administration of the adjuvanted recombinant hepatitis B vaccine is not recommended during pregnancy because of lack of safety data.

¶ Confirm that LAIV is a recommended option for influenza vaccination each season.

Δ Delay MenB until after pregnancy unless at increased risk and vaccination benefit outweighs uncertain risks.

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*References:*

1. *Vaccines for Pregnant Women. Centers for Disease Control and Prevention. Available at: <http://www.cdc.gov/vaccines/adults/rec-vac/pregnant.html> (Accessed on March 19, 2015).*
2. *Kim DK, Hunter P, et al. Recommended Adult Immunization Schedule, United States, 2019. Ann Intern Med 2019; 170:182.*

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