

# ADULT IMMUNIZATION SCHEDULE IN SELECTED INDICATIONS



POLSKIE TOWARZYSTWO  
MEDYCYNY RODZINNEJ



FUNDACJA  
MY PACJENCI

VACCINATION AND INDICATION	BEFORE PREGNANCY	PREGNANCY	CHRONIC CIRCULATORY SYSTEM DISEASE	CHRONIC RESPIRATORY SYSTEM DISEASE	DIABETES	CKD	CHRONIC LIVER DISEASE	HIV INFECTED	IMMUNE DEFICIENCIES (EXCLUDING HIV-INFECTED PATIENTS AND PATIENTS BEFORE/AFTER ORGAN OR HEMATOPOIETIC CELL TRANSPLANTATION)	BEFORE OR AFTER ORGAN OR HEMATOPOIETIC CELLS TRANSPLANTATION	ASPLENIA OR SPLEEN DYSFUNCTION	HEALTHCARE WORKERS AND MEDICAL STUDENTS	OVER 60 YEARS OF AGE
INFLUENZA	1 dose every year, preferably at the beginning of the epidemic season	1 dose every year, preferably at the beginning of the epidemic season (vaccination possible throughout the entire pregnancy)	1 dose every year, preferably at the beginning of the epidemic season										
PNEUMOCOCCUS			1 or 2 doses							The decision to vaccinate and the vaccination schedule depend on individual indications			1 or 2 doses
COVID-19	Vaccination schedule depending on currently available vaccines and vaccination status												
RSV		1 dose between 32 and 36 weeks of pregnancy to protect the infant	1 dose (for individuals over 60 years of age, as well as for individuals over 50 years of age with an increased risk of RSV)										1 dose
TETANUS, DIPHTHERIA AND PERTUSSIS		1 dose of Tdap between 27 and 36 weeks of each pregnancy	1 dose of Tdap every 10 years							The decision to vaccinate and the vaccination schedule depend on individual indications		1 dose of Tdap every 10 years	
CHICKENPOX	2 doses <sup>1,2</sup>		2 doses <sup>1</sup>				2 doses <sup>1,3</sup>		2 doses <sup>1,4,5</sup>		2 doses <sup>1</sup>		
SHINGLES		6	2 doses <sup>7</sup>				2 doses <sup>6,7</sup>				2 doses <sup>7</sup>		
HPV			3 doses <sup>8</sup>										
MMR	1 or 2 doses <sup>2,9</sup>		1 or 2 doses <sup>9</sup>				1 or 2 doses <sup>3,9</sup>		The decision to vaccinate and the vaccination schedule depend on individual indications <sup>9</sup>		1 or 2 doses <sup>9</sup>		
HAEMOPHILUS INFLUENZAE B										The decision to vaccinate and the vaccination schedule depend on individual indications			
POLIOMYELITIS (INACTIVATED)			3 doses <sup>10</sup>							The decision to vaccinate and the vaccination schedule depend on individual indications <sup>10</sup>		3 doses <sup>10</sup>	
TICK-BORNE ENCEPHALITIS			3 doses <sup>11</sup>										
NEISSERIA MENINGITIDIS			The vaccination schedule depends on the type of vaccine <sup>12</sup>										
HEPATITIS A			2 doses (or 3 doses in case of a combined hepatitis A and B vaccines) <sup>13</sup>			2 doses (or 3 doses in case of a combined hepatitis A and B vaccines) <sup>13</sup>		2 doses (or 3 doses in case of a combined hepatitis A and B vaccines) <sup>13</sup>			2 doses (or 3 doses in case of a combined hepatitis A and B vaccines) <sup>13</sup>	2 doses (or 3 doses in case of a combined hepatitis A and B vaccines) <sup>13</sup>	
HEPATITIS B	3 doses	3 doses <sup>18</sup>	3 doses		3 doses <sup>15,17</sup>	4 doses <sup>14,15,17</sup>	3 doses <sup>15,17</sup>	3 doses <sup>15,17</sup>			3 or 4 doses <sup>15,17</sup>	3 doses	3 doses

■ Vaccinations recommended for unimmunized individuals

■ Vaccination recommended in certain cases

■ Mandatory vaccinations

■ Vaccination contraindicated

# ADULT IMMUNIZATION SCHEDULE IN SELECTED INDICATIONS



POLSKIE TOWARZYSTWO  
MEDYCYNY RODZINNEJ



## ABBREVIATIONS:

RSV - respiratory syncytial virus

Tdap - a vaccine containing tetanus toxoid, reduced dose of diphtheria toxoid and acellular pertussis components

HPV - human papilloma virus

MMR - vaccine against measles, mumps and rubella

HIV - human immunodeficiency virus

CKD - chronic kidney disease

## References:

1. Announcement of the Chief Sanitary Inspector of 27 October 2023 regarding the Vaccination Program for 2024
2. K. Tomasiewicz. Monografia. Szczepienia ochronne u dorosłych. MPD1(1)2020
3. Wakcynologia praktyczna; edited by. Ciechanowski P, Mrożek-Budzym D; published by Alfamedica press, 2023.
4. National Institute of Public Health – National Institute of Hygiene. szczepienia.pzh.gov.pl [accessed 29/11/2023]
5. SPCs of individual products
6. <https://www.cdc.gov/vaccines/schedules/hcp/imz/adult-conditions.html> [accessed 29/11/2023]
7. Vaccination of adult patients with hematological malignancies and patients with asplenia – guidelines of PTHiT and Infectious Diseases Working Group PALG, 2018
8. Vaccination of hematopoietic cell transplantation adult recipients – guidelines of Infectious Diseases Working Group PALG, 2017

1. Unvaccinated individuals who have never had chickenpox
2. At least 4 weeks between last dose and pregnancy
3. Vaccination contraindicated if CD4 lymphocyte count is  $<200/\text{mm}^3$
4. At least 24 months after hematopoietic cells transplantation
5. At least 4 weeks prior to transplantation
6. Live vaccine against shingles (Zostavax) is contraindicated
7. Individuals who have had chickenpox
8. Individuals who are subject to recommendations based on age (18-26 years old and 26-45 years old as part of a shared decision with a doctor)
9. Unvaccinated individuals who have never had measles, mumps or rubella
10. Individuals unvaccinated against poliomyelitis
11. Recommended for:
  - people employed in timber industry
  - stationed military personnel
  - fire and border guards
  - farmers
  - young people undergoing internships and apprenticeship
  - people frequently engaged in outdoor physical activitiesBooster doses are needed every 5 years for individuals before the age of 60 or every 3 years for individuals aged 60 and beyond.
12. Recommended for individuals:
  - at risk of invasive meningococcal disease: with close contact with a sick person or infectious material (medical personnel, laboratory workers), staying in congregate settings (kindergartens, nurseries, student dormitories, dormitories, barracks), people with behavior conducive to infection (intimate contact with a carrier or sick person, e.g. deep kiss), who are traveling;
  - with congenital immunodeficiencies: with anatomical or functional asplenia, infected with HIV, malignant tumor, rheumatic disease;
  - chronic kidney and liver disease, treated with eculizumab due to paroxysmal nocturnal hemoglobinuria or atypical hemolytic-uremic syndrome, before and after bone marrow transplantation and patients undergoing immunosuppressive treatment;
13. Recommended for individuals:
  - traveling to countries with high and intermediate endemicity of hepatitis A
  - employed in food production and distribution, removal of municipal waste and liquid waste and maintenance of devices used for this purpose
  - depending on the epidemiological situation, individuals from risk groups in which an increased number of diseases is observed, especially those exposed due to risky behavior
  - medical workers, especially in infectious disease, gastroenterology, pediatric wards
14. Mandatory for patients with chronic renal failure and individuals undergoing dialysis
15. Antibody monitoring after vaccination may be necessary
16. Mandatory for people infected with hepatitis C
17. Booster doses may be necessary
18. Pregnancy is not a contraindication for starting or continuing hepatitis B vaccination schedules
19. According to the information provided in the Summary of Product Characteristics (SPC), the RSV vaccine can be administered between the 24th and 36th weeks of pregnancy. However, it is recommended to administer the vaccine between the 32nd and 36th weeks of pregnancy, due to potentially greater benefits and a better safety profile