

Vaccination Schedules for solid organ transplant recipients

Vaccine	Vaccines recommended before transplantation <i>Child</i> (0 -18 years)	Vaccines recommended before transplantation <i>Adult</i> (Over 18 years)	Vaccines recommended after transplantation, if not given before <i>Child</i> (0 -18 years)	Vaccines recommended after transplantation, if not given before <i>Adult</i> (over 18 years)	Schedule/Recommendations
Pneumococcal vaccine (13 vPCV)	Yes (if aged more than 6 weeks)	Yes	Yes (if aged more than 6 weeks)	Yes	Recommendations depend on age. Check with your doctor if your child is under 2 years
Pneumococcal vaccine (23 PPV)	Yes (8 weeks after 13vPCV)	Yes (8 weeks after first dose)	Yes (8 weeks after first dose)	Yes (8 weeks after first dose)	Recommendations depend on age. Check with your doctor if your child is under 2 years
Haemophilus influenzae type B (Hib vaccine)	Yes	Not indicated	Yes	Not indicated	If possible, complete vaccination before transplantation
Diphtheria, Tetanus, Pertussis vaccine	Yes	Yes (if no diphtheria, tetanus, and pertussis vaccination has been given in last 10 years)	Yes (if not previously vaccinated)	Yes (if no diphtheria, tetanus and pertussis vaccination has been given in last 10 years)	To be taken every 10 years. Different formulations are used for children under 10 years old. Consult your doctor for more details.
Influenza vaccine	Yes (if over 6 months of age)	Yes	Yes (if over 6 months of age)	Yes (if not received within 12 months before transplant)	Recommended annually. Two doses of the vaccine at least 4 weeks apart are recommended for all recipients receiving the influenza vaccine for the first-time after transplant irrespective of age and annually thereafter.
Inactivated Polio Vaccine (IPV)	Yes	Yes	Yes	Yes	If you are an adult and have received a routine course of polio vaccination in childhood, you are recommended to receive a booster every 10 years if you are at risk of exposure to polio e.g. through travel or laboratory work

Hepatitis B vaccine	Yes	Yes (see recommendations)	Yes	Yes (see recommendations)	Check with your doctor for your virus exposure status. Recommended for all transplant candidates who have never been exposed to the hepatitis B virus.
Hepatitis A vaccine	Yes (if never been exposed to the virus)	Yes (if never been exposed to the virus) (if seronegative)	Yes (if never been exposed to the virus)	Yes (if never been exposed to the virus)	Check with your doctor for your virus exposure status. Recommended for all liver recipients or if you have long term liver disease, or have long term infections with either hepatitis B or hepatitis C
Meningococcal C conjugate vaccine (MenCCV or Hib-MenCCV)	Yes	Not indicated	Yes	Not indicated	A single dose of meningococcal C conjugate vaccine is recommended at 12 months of age. The Hib MenCCV vaccine is a meningococcal Conjugate vaccine in a combination formulation with the Haemophilus influenzae type b (Hib) vaccine
Quadrivalent meningococcal conjugate vaccine (4vMenCV) & Meningococcal B vaccine (MenBV)	Yes, if at risk due to age or other defined risk factors	Yes, if at risk due to age or other defined risk factors	Yes, if at risk due to age or other defined risk factors	Yes, if at risk due to age or other defined risk factors	You may have certain conditions or undergoing treatment that will require you to take 4vMenCV/MenBV. Check with your doctor to see if you fall in that category.
Human papillomavirus vaccine (HPV)	Yes	Yes	Yes, if no history of prior immunisation	Yes, if no history of prior immunisation	3 dose schedule of 4vHPV is recommended for those aged over 9 years. The 2 nd and 3 rd dose is to be taken 2 months and 6 months after you take the first dose. Recommended for both males and females
Measles, mumps, and rubella vaccine (MMR)	Yes	Yes (unless 2 previous documented doses)	No – Contraindicated after transplant	No – Contraindicated after transplant	You must complete, this schedule before your transplant and only if you do not have a suppressed immune system, e.g. due to immunosuppressive therapy
Varicella (chicken pox) vaccine	Yes, if non-immune (refer top comments)	Yes, if non-immune (refer top comments)	No – contraindicated after transplant	No – contraindicated after transplant	You may be immune from varicella (chickenpox) if you have already had the disease previously. You should give a detail history to the doctor of your symptoms and the doctor may do further tests to confirm previous exposure to the virus If you have not had the disease previously, you should only complete the vaccination schedule before you have a transplant and only if you do not have a

suppressed immune system, e.g. due to immunosuppressive therapy

Information sourced from THE AUSTRALIAN IMMUNISATION HANDBOOK 10TH EDITION; table 3.3.2 and Table 3.3.3. For a full list of references visit transplant.org.au.

Key table

13 vPCV	This protects against 13 types of pneumococcal strains	For infants, children and adults
23 PPV	This protects against 23 types of pneumococcal strains	For infants, children and adults
Men CCV	This protects against the C meningococcal strain	Mainly used now in case a catch-up dose is required.
Hib-Men CCV	This is a combination vaccine that protects against Haemophilus influenzae and meningococcal strains	
4vMenCV	This protects against A, C, W ₁₃₅ & Y meningococcal strains	