

Immunisation for adults pre-/post-solid organ transplantation (excluding kidney transplantation)

Immunisations should be delivered prior to transplant if possible as response may be better and some vaccines are contraindicated following transplant. For children aged under 18 years, please refer to the current *Immunisation Handbook*.

Vaccine	Additional notes	Recommended schedule	Eligibility
Immunisations should be delivered prior to elective immunosuppression if possible, as response may be better and immunosuppression is a contraindication for some vaccines.			
Haemophilus influenzae type b Hib (Act-HIB/Hiberix)		<ul style="list-style-type: none"> Administer one dose 	FUNDED
Hepatitis A (Havrix)		<ul style="list-style-type: none"> Administer two doses 6-12 months apart 	FUNDED
Hepatitis B (Engerix-B)	<p>Liver transplant:</p> <ul style="list-style-type: none"> Co-administer two doses of 20mcg/mL (i.e. 40 mcg) at each visit <p>Other solid organ transplant:</p> <ul style="list-style-type: none"> Administer one dose of 20mcg/mL at each visit 	<p>If PRE-transplant administer appropriate vaccine dose at:</p> <ul style="list-style-type: none"> 0, 1, 2 month intervals <p>If POST-transplant administer appropriate vaccine dose at:</p> <ul style="list-style-type: none"> 0, 1, 6 month intervals 	FUNDED
Herpes zoster Recombinant ZV (Shingrix)	<ul style="list-style-type: none"> Adults from the age of 18 years 	<ul style="list-style-type: none"> Administer two doses, at least 2–6 months apart Funded pre- or post-solid organ transplant 	FUNDED From 18 years of age
Human papillomavirus HPV (Gardasil 9)	<ul style="list-style-type: none"> Males and females up to 45 years of age 	<ul style="list-style-type: none"> Administer three doses at 0, 2 and 6 month intervals 	FUNDED Up to 27 years of age

Vaccine	Additional notes	Recommended schedule	Eligibility
Influenza	<ul style="list-style-type: none"> Annually, during the funded Influenza Immunisation Programme 	<p>If PRE-transplant:</p> <ul style="list-style-type: none"> Administer one dose annually <p>If POST-transplant:</p> <ul style="list-style-type: none"> Wait until 3 months post-transplant unless at high-risk of infection: <ul style="list-style-type: none"> If at high risk of infection, e.g. during influenza epidemic, wait until 1 month post-transplant Administer two doses 4 weeks apart in the first year post-transplant; both doses are funded In subsequent years only one dose is required annually 	FUNDED One dose
Meningococcal MenACYW (MenQuadfi)	<ul style="list-style-type: none"> Prescription required for second primary dose 	<p>If PRE-transplant:</p> <ul style="list-style-type: none"> Administer one dose Schedule a precall for a booster dose every 5 years <p>If POST-transplant:</p> <ul style="list-style-type: none"> Administer two doses 8 weeks apart Schedule a precall for a booster dose every 5 years 	FUNDED
Meningococcal 4CMenB (Bexsero)	<ul style="list-style-type: none"> Can be co-administered with any other vaccine 	<ul style="list-style-type: none"> Administer two doses 8 weeks apart Schedule a precall for a booster dose every 5 years † 	FUNDED
Pneumococcal PCV13 (Prevenar)	<ul style="list-style-type: none"> If Pneumovax 23 has been administered before Prevenar 13, wait one year to give Prevenar 13 	<ul style="list-style-type: none"> Administer one dose 	FUNDED
Pneumococcal 23PPV (Pneumovax 23)	<ul style="list-style-type: none"> Administer Pneumovax 23 a minimum of 8 weeks after Prevenar 13 	<p>If aged 18 years to under 60 years:</p> <ul style="list-style-type: none"> Administer one dose Schedule a precall for the second dose in 5 years Schedule a precall for the third/final dose 5 years after second dose or at age 65 years, whichever is later <p>If aged 60 years or older:</p> <ul style="list-style-type: none"> Administer one dose Schedule a precall for the second/final dose in 5 years 	FUNDED
Polio IPV (Ipol)	<ul style="list-style-type: none"> Check immunisation history for a primary course of three polio containing vaccines 	<p>If unsure of polio immunisation history:</p> <ul style="list-style-type: none"> Administer three doses with a minimum of 4 weeks between each dose 	FUNDED

† Although the need for a booster dose after this vaccination schedule has not been established, it is recommended and funded for certain special groups (refer to Pharmac Schedule)

Vaccine	Additional notes	Recommended schedule	Eligibility
SARS-CoV-2 (COVID-19)	<ul style="list-style-type: none"> A third primary dose of mRNA-CV is recommended for severely immunocompromised individuals Third dose should be given 8 weeks after second dose See Immunisation Handbook in relation to timing for current/planned immunosuppressive therapies 	<p>If PRE-transplant:</p> <ul style="list-style-type: none"> administer vaccine doses following the recommended schedule for the available COVID-19 vaccine <p>If POST-transplant:</p> <ul style="list-style-type: none"> wait until 3 months post-transplant, unless earlier administration indicated by specialist 	FUNDED
Tetanus/diphtheria/pertussis Tdap (Boostrix)	<ul style="list-style-type: none"> Check immunisation history for a primary course of three tetanus/diphtheria containing vaccines 	<p>If unsure of tetanus/diphtheria immunisation history:</p> <ul style="list-style-type: none"> Administer three doses with a minimum of 4 weeks between each dose <p>If has a confident recollection of completed tetanus/diphtheria immunisation:</p> <ul style="list-style-type: none"> Administer one Tdap at age 45 years if less than four documented tetanus containing vaccine doses Administer one Tdap at age 65 years 	FUNDED
Measles/mumps/rubella MMR (Priorix)	<ul style="list-style-type: none"> Individuals born in 1969 or later who do not have two documented doses of MMR vaccine MMR vaccination is not required for adults born prior to 1969 	<p>If less than two documented doses:</p> <ul style="list-style-type: none"> Complete a documented course of two MMR doses Administer up to two doses at least 4 weeks apart ^{a,b,c,d} 	FUNDED for individuals who meet the eligibility criteria *
Varicella (chickenpox) (Varivax/Varilrix)	<ul style="list-style-type: none"> Individuals with no clinical history of varicella infection or vaccination 	<ul style="list-style-type: none"> Administer two doses at least 4 weeks apart ^{a,b,c,d,e} 	CONTRAINDICATED From 4 weeks pre-transplant

a. Individuals who have received immunoglobulin or other blood products may require time for passive antibodies to decrease prior to administration of live MMR and varicella vaccines. Refer to Table A6.1 in the current *Immunisation Handbook*.

b. Two or more live vaccines can be given at the same visit. However, when live vaccines are administered at different visits, a minimum interval of 4 weeks is required.

c. Live vaccines should not be given during the 4 weeks prior to transplant.

d. Consider normal immunoglobulin or zoster immunoglobulin for post-exposure measles or varicella prophylaxis respectively in immunosuppressed, non-immune individuals.

e. Two doses of varicella vaccine are funded for a household contact of an individual who is severely immunocompromised or undergoing a procedure leading to immune compromise, where the household contact has no clinical history of varicella infection or immunisation.

* For eligibility criteria, see *Pharmac Schedule* - tinyurl.com/evpk569k

Call 0800 IMMUNE (0800 466 863) for clinical advice