

POST STEM CELL TRANSPLANT VACCINATION SCHEDULE(1, 2)

(Allogeneic transplant), Recommendations by ISCTR (March 2017)

To be initiated once the patient is off immunosuppression (1 month) with no signs of GVHD

Name	Hosp No	Age	Sex	UPN

Date of BMT	Immunosuppression stopped on (Date)	Chronic GVHD (Yes/No)

S No	Vaccine	Volume	Route	Start at	Comments	1 st dose	2 nd dose	3 rd dose	
1	Pneumococcal conjugate vaccine (PCV-13) 3 doses followed by	0.5ml	IM	1 year	3 doses: 2 months apart. 0,2,4, months				
2	Pneumococcal polysaccharide capsular vaccine. (to be given in children after 24 months of age)	0.5 ml	IM	At least 1 year 10 months post allo BMT	10 months after 1st dose of prevnar				
2	Inactivated Influenza (April to September)	0.25ml (6 mths – 3 yrs) 0.5ml (>3 yrs)	IM	6 months onwards and yearly	<9 years – 2 doses (0,1 month) >9 years – 1 dose				
3	Inactivated polio	0.5ml	IM	1 year	3 doses; 2 months apart. 0,2,4 months				
4	H influenza B	0.5ml	IM	1 year	3 doses; 2 months apart. 0,2,4 months				
5	DTaP/DPT	0.5ml	IM	1 year	3 doses; 2 months apart. 0,2,4 months				
3,4, 5	Combination vaccine: (IPV, HiB, DTaP) given 2 months apart)	0.5ml	IM	1 year	3 doses; Alternative to vaccines 3,4 & 5 2 months apart 0,2,4 months				
6	Hepatitis B	0.5ml	IM	1 year	3 doses; 0,2,6 months				
7	HPV: 9-26 years. Vaccine be administered in sitting/lying down position. And the patient be observed for 15 min post vaccination.	0.5ml	I/M	1 year	3 doses (0,2,6 months)				

8	Hepatitis A	1.0ml (adults) 0.5ml (<18 yrs)	IM only (deltoid or anterolateral thigh)	1 year	2 doses: 0,6 months		Booster at 6mths – 5 yrs)	Never to be given in gluteal region
9	Typhoid (Conjugate)	0.5ml	IM	1 year	2 doses 0,2			
LIVE VACCINES: To be started after 2 years and off immunosuppression for 12 months.								
10	MMR (Live) (2-1-8 rule) (2yrs after BMT, 1 year after IST, 8 months after IVIg)	0.5ml	Deep S/C only	2 years	Children 2 doses; 1 months apart. 0, 1 months Adults: 1 dose			2-1-8 rule
11	Varicella (Varilrix) – Live (2-1-8 rule) (>12 months)	0.5ml	S/C only	2 years	2 doses; 1 month apart. 0, 1			2-1-8 rule

POST TRANSPLANT OPTIONAL VACCINES

Meningococcal vaccine (Conjugate)	0.5ml	IM	1 Year				2 doses 2 months apart.
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VACCINES CONTRAINDICATED POST BMT

BCG	Not to be given
Oral polio vaccine (live)	Not to be given – NOT TO GIVE ORAL POLIO VACCINE TO ANY ONE AT HOME They also have to be vaccinated with Inactivated polio vaccine.
Intranasal influenza	Not to be given
Cholera	No data were found regarding safety and immunogenicity among HCT recipients

VACCINES FOR CONTACTS (Children and close family members) AND HEALTH CARE WORKERS
SIBLING: Of the transplant patient should continue vaccination as per the age. Oral polio to be replaced by injectable polio (IPV)

Vaccine	Volume	Route	Start at	1 st dose	2 nd dose	3 rd dose	Comments
Varicella (Varilrix)	0.5ml	S/C only	1 year of age				2 doses for >13 yrs.
Inactivated Influenza (Vaxigrip)	0.5ml (>3 yrs) 0.25ml (6 mon – 3 yrs)	IM	6 months post-transplant				And then yearly

References:

1. Ljungman P, Cordonnier C, Einsele H, Englund J, Machado CM, Storek J, et al. Vaccination of hematopoietic cell transplant recipients. Bone Marrow Transplant. 2009 Oct;44(8):521-6.
2. Tomblyn M, Chiller T, Einsele H, Gress R, Sepkowitz K, Storek J, et al. Guidelines for preventing infectious complications among hematopoietic cell transplant recipients: a global perspective. Preface. Bone Marrow Transplant. 2009 Oct;44(8):453-5.
3. Centers for Disease Control and Prevention. (2011, January). General Recommendations on Immunization: Recommendations of the Advisory Committee on Immunization Practices (ACIP). Morbidity and Mortality Weekly Report, 60(2), 22.
4. Ljungman, Small, T., Update to vaccination guidelines. (2010, July). Update to vaccination guidelines. Biology of Blood and Marrow Transplant, 16, 1608.