APPENDIX TABLES

(For inclusion with online version of the manuscript)

TABLE A: Vaccinations recommended for both autologous and allogeneic HCT recipients (Adapted from references 9-11)

Vaccine	Recommended for use after HCT	Time post-HCT to initiate vaccine	No. of doses ^a
Pneumococcal conjugate (PCV)	Yes	3-6 months	3-4 ^b
Tetanus, diphtheria, acellular pertussis c	Yes	6-12 months	3 ^d
Haemophilus influenzae conjugate	Yes	6-12 months	3
Meningococcal conjugate	Follow country recommendations for general population	6-12 months	1
Inactivated polio	Yes	6-12 months	3
Recombinant hepatitis B	Follow country recommendations for general population	6-12 months	3
Inactivated influenza	Yearly	4-6 months	1-2 ^e
Measles-mumps-rubella (live) f,g	Measles: All children and seronegative adults	24 months	1-2 ^h

Adapted from: "Guidelines for preventing infectious complications among hematopoietic cell transplantation recipients: A global perspective", Biology of Blood and Marrow Transplantation, Volume 15, Issue 10, Pages 1143-1238, Copyright 2009, with permission from Elsevier; and "Vaccination of hematopoietic cell transplant recipients", Bone Marrow Transplantation, Volume 44, Issue 8, Pages 521-526, Copyright 2009, with permission from Macmillan Publishers Ltd.

Guidelines for vaccinations considered optional or not recommended for HCT recipients and for vaccinations for family, close contacts and health-care workers of HCT recipients are available from these references.

^a A uniform specific interval between doses cannot be recommended, as various intervals have been used in studies. As a general guideline, a minimum of 1 month between doses may be reasonable.

Following the primary series of three PCV doses, a dose of the 23-valent polysaccharide pneumococcal vaccine (PPSV23) to broaden the immune response might be given. For patients with chronic GVHD who are likely to respond poorly to PPSV23, a fourth dose of the PCV should be considered instead of PPSV23.

^c DTaP (diphtheria tetanus pertussis vaccine) is preferred, however, if only Tdap (tetanus toxoid-reduced diphtheria-toxoid reduced acellular pertussis vaccine) is available (for example, because DTaP is not licensed for adults), administer Tdap. Acellular pertussis vaccine is preferred, but the whole-cell pertussis vaccine should be used if it is the only pertussis vaccine available.

^d See reference for consideration of an additional dose(s) of Tdap for older children and adults.

For children <9 years of age, two doses are recommended yearly between transplant and 9 years of age.

Measles, mumps and rubella vaccines are usually given together as a combination vaccine. In females with pregnancy potential, vaccination with rubella vaccine either as a single or a combination vaccine is indicated.

⁹ Not recommended <24 months post-HCT, in patients with active GVHD and in patients on immune suppression.

h In children, two doses are favored.

TABLE B: Recommendations for screening and prevention of late complications in long-term HCT survivors by selected exposures and risk-factors; this table highlights late complications that require greater vigilance or alternate followup schedule in this group of patients in addition to guidelines applicable for all HCT recipients (Table 1)

Tissues/organs	Monitoring Tests and Preventive Measures			
Pediatric HCT recipients				
Oral	- Yearly assessment of teeth development			
Nervous system	- Annual assessment for congnitive development milestones			
Endocrine	 Clinical and endocrinologic gonadal assessment for pre-pubertal boys and girls within 1 year of transplant, with further followup as determined in consultation with a pediatric endocrinologist Monitor growth velocity annually; assessment of thyroid, and growth hormone function if clinically indicated 			
Patients with active or history of chronic GVHD				
Immune system	 Antimicrobial prophylaxis targeting encapsulated organisms and PCP for the duration of immunosuppressive therapy Screening for CMV reactivation should be based on risk factors, including intensity of immunosuppression. 			
Ocular	 Routine clinical evaluation, and if indicated, ophthalmologic examination more frequently than general recommendations of 6 months, 1 year and yearly thereafter 			
Oral	 Consider more frequent oral and dental assesments with particular attention to intra-oral malignancy evaluation compared to general recommendations of 6 months, 1 year and yearly thereafter for clinical oral assessment and 1 year and yearly therafter for dental assessment 			
Respiratory	Some experts recommend clinical evaluation (± PFT's) start before 6 months and occur more frequently than general recommendations of 6 months, 1 year and yearly thereafter			
Muscle and connective tissue	 Physical therapy consultation in patients with prolonged corticosteroid exposure, fascitis or scleroderma Frequent clinical evaluation by manual muscle tests or by assessing ability to go from sitting to standing position for patients on prolonged corticosteroids 			
Skeletal	Some experts recommend dual photon densitometry at an earlier date in patients with prolonged corticosteroid or calcineurin inhibitor exposure compared to general recommendations of 1 year			
Endocrine	 Slow terminal tapering of corticosteroids for those with prolonged exposure Consider stress doses of corticosteroids during acute illness for patients who have received chronic corticosteroids 			
Mucocutaneous	 Consider more frequent gynecologic evaluation based on clinical symptoms compared to general recommendations of 1 year and yearly thereafter 			
Second cancers	 Clinical and dental evaluation with particular attention towards oral and pharyngeal cancer Counsel patients about risks of secondary malignancies annually, particularly of the oro-pharynx and skin, and encourage them to perform self exam (e.g., skin) 			

Patients with prolonged pre- or post-transplant corticosteroid exposure			
Immune system	 Antimicrobial prophylaxis targeting encapsulated organisms and PCP for the duration of immunosuppressive therapy Screening for CMV reactivation should be based on risk factors, including intensity of immunosuppression. 		
Muscle and connective tissue	 Physical therapy consultation Frequent clinical evaluation by manual muscle tests or by assessing ability to go from sitting to standing position 		
Skeletal	- Some experts recommend dual photon densitometry at an earlier date compared to general recommendations of 1 year		
Endocrine	 Slow terminal tapering of corticosteroids for those with prolonged exposure Consider stress doses of corticosteroids during acute illness for patients who have received chronic corticosteroids 		
TBI recipients			
Mucocutaneous	 Consider more frequent gynecologic evaluation based on clinical symptoms compared to general recommendations of 1 year and yearly thereafter 		
Second cancers	 Screening mammography in women starting at age 25 or 8 years after radiation exposure, whichever occurs later but no later than age 40 		

TABLE C: List of guidelines referenced in this manuscript and links to their websites

Guideline (Reference)	Sponsor	Website Link
Long-term followup guidelines for survivors of	Children's Oncology Group (COG)	http://www.survivorshipguidelines.org/
childhood, adolescent and young adult cancers		
Guidelines for preventing infectious	Center for International Blood and Marrow	http://www.ncbi.nlm.nih.gov/pubmed/19747629
complications among hematopoietic cell	Transplant Research (CIBMTR), the National	Tittp://www.ncbi.him.him.gov/pabmed/19141029
transplantation recipients: A global	Marrow Donor Program (NMDP), the European	http://www.ncbi.nlm.nih.gov/pubmed/19861977
perspective (9,10)	Blood and Marrow Transplant Group (EBMT),	
	the American Society of Blood and Marrow	
	Transplantation (ASBMT), the Canadian Blood and Marrow Transplant Group (CBMTG), the	
	Infectious Diseases Society of America (IDSA),	
	the Society for Healthcare Epidemiology of	
	America (SHEA), the Association of Medical	
	Microbiology and Infectious Diseases Canada	
	(AMMI), and the Centers for Disease Control and Prevention (CDC)	
Prevention of infective endocarditis:	American Hearth Association (AHA)	http://circ.ahajournals.org/content/116/15/1736.
Guidelines from the American Heart	7 thoroan Houran 7 too oration (7 th 7 t)	full.pdf
Association (15)		
		http://my.americanheart.org/professional/State
		mentsGuidelines/ByTopic/TopicsD- H/Endocarditis UCM 321487 Article.jsp
Third report of the expert panel on detection,	National Heart, Lung and Blood Institute	http://circ.ahajournals.org/content/106/25/3143.
evaluation and treatment of high blood	(NHLBI)	long
cholesterol in adults (Adult Treatment Panel	(***-=)	30.03
III) (³⁶)		http://www.nhlbi.nih.gov/guidelines/cholesterol/
Physical activity guidelines for Americans (**/)	US Department of Health and Human Services (HHS)	http://www.health.gov/paguidelines/
Recommendations for the prevention and	American College of Rheumatology (ACR)	http://www.rheumatology.org/practice/clinical/g
treatment of glucocorticoid-induced		uidelines/osteoupdate.asp
osteoporosis (⁵²)		
Preventive health recommendations for adults*	US Preventive Services Task Force (USPSTF)	http://www.uspreventiveservicestaskforce.org/adultrec.htm
Preventive health recommendations for	US Preventive Services Task Force (USPSTF)	http://www.uspreventiveservicestaskforce.org/tf
children and adolescents *	OOT TEVERILIVE SELVICES TASK TOICE (USFSTF)	childcat.htm
Children and adolescents		CHIIOCALHUII

^{*} Includes guidelines for cancer screening