# Italy - More stringent blood donor testing requirements 2015 Mapping exercise

Colour key								
	Minimum requirements as set out in Directive 2004/23/EC							
	More stringent testing - legally binding on national level							
	More stringent testing - recommended on national level							
	Not legally binding and not recommended on national level							

### Non-reproductive tissues and cells

Tested pathogen	Donor test/ technique	Legally binding	Recommended	Recommending	Circumstances for appl	ication		Regional differences	Further comments
			on national level	authority/ association	Donor profile	Tissue/cell type	Comments		
VIRAL									
HIV 1 and HIV 2	Anti-HIV 1	YES	NO	N/A	all	all		In some regions (e.g.	
	Anti-HIV 2	YES	NO	N/A	all	all		Toscana and Veneto)	
	HIV 1p24							the NAT test in living	
	HIV NAT	YES	NO	N/A	living donor HPCs; for	all HPCs (BM, PBSC	no comments	donors of tissues is	
					living donor of tissues	and CB); all tissues		always performed even	
					if serology is not	from living donors		if serology has been	
					repeated after 180			repeated after 180	
					days			days.	
	Other technique					•			
Hepatitis B	HBs Ag	YES		N/A	all	all		In some regions	Anti - HBs maybe performed if an
	Anti-HBc	YES	NO	N/A	all	all		(e.g.Toscana and	- HBc results are positive
	Anti - HBs			1				Veneto) the NAT test in	
	HBV NAT	YES	NO	N/A	living donor HPCs; for	all HPCs (BM, PBSC	no comments	living donors of tissues	
					living tissue donor if	and CB); all tissues		is always performed	
					serology is not	from living donors		even if serology has	
					repeated after 180			been repeated after	
					days			180 days.	
	Other technique		1	1.	1	L	1		
Hepatitis C	Anti-HCV	YES	NO	N/A	all	all		In some regions (e.g.	
	HCV NAT	YES	NO	N/A	living donor HPCs; for	all HPCs (BM, PBSC	no comments	Toscana and Veneto)	
					living tissue donor if	and CB); all tissues		the NAT test in living	
					serology is not	from living donors		donors of tissues is	
					repeated after 180			always performed even	
					days			if serology has been	
	Other technique							repeated after 180	
HTLV-1	Technique not specified					Γ		NO	
	Anti-HTLV-1	YES	NO	N/A	HTLV - 1 testing is	all			
					carried out only on				
					donors with identified				
					risk				
	HTLV-1 NAT	_							
	Other technique								
HTLV-2	Technique not specified					Γ	1	NO	
	Anti-HTLV-2	YES	NO	N/A	HTLV - 2 testing is	all	no comments		
					carried out only on				
					donors with identified				
					risk			]	1

Tested pathogen	Donor test/ technique	Legally binding	Recommended	Recommending	Circumstances for application			Regional differences	Further comments
			on national level	authority/ association	Donor profile	Tissue/cell type	Comments		
	HTLV-2 NAT								
	Other technique	7							
Chikungunya virus	Technique not specified	YES	NO	N/A	all	all	no comments	NO	All donors that have been in risky
	Anti-CHIKV								areas 28 days before or are
	CHIKV NAT								syntomatic are excluded without
	Other technique								further testing. The testing is
Cytomegalovirus	Technique not specified			_	NO	According to the National			
	Anti-CMV	YES	YES	IBMDR Standard - http://ibmdr.galliera.it /english-version/ibmdr manual-of-operation for HPCs. For tissues: Italian guideline on quality and safety of tissues - july 2013.		HPCs, skin, cardiac valves, vessels, amniotic membrane	no comments		guidelines on tissues (https://www.trapianti.salute.gov.i t/imgs/C_17_normativa_27_allega to.pdf) the NAT test has to be performed if anti -CMV IgM results are positive.
	CMV NAT	4							
	Other technique								
Dengue Virus	Technique not specified	2450			1			NO	All donors that have been in risky
	Anti-DENV	YES	NO	N/A	all	all	no comments		areas or are symptomatic are
	NAT	-							excluded. All the other donors
The le Maria	Other technique							NO	must be tested.
Ebola Virus	Technique not specified NAT	VEC	NO	N/A	all	all			All donors that have been in risky areas or are symptomatic are excluded. All the other donors
		YES		N/A	all	ali	no comments		
Fratain Damining	Other technique							NO	
Epstein-Barr virus	Technique not specified Anti-EBV	YES	NO.	N/A	all	all			According to the Ministerial Decree n.16 of January 25, 2010 (https://www.google.it/#q=decret
	Other technique	TES	NO	N/A	dii	dli	no comments	_	
Hepatitis E	Other technique								(https://www.google.it/#q=ueciet
Human Parvovirus B19									
Herpes simplex virus									
West Nile Virus	Technique not specified							NO	
west wile virus	WNV minipool NAT	-						NO	
	WNV ID NAT	YES	NO	N/A	testing is carried out	HPCs and bone only if	no comments	-	
			NO	N/A	only on donors with	frozen	no comments		
					identified risk				
	Other technique				id childred hok		1		
specify pathogen	other teeningue								
PARASITIC									
Babesiosis									
Leishmaniasis									
Malaria	Technique not specified	1						NO	According to the Ministerial Decree
Ivialalla	Microscopy	-						NO	n.16 of January 25, 2010
	Plasmodium sp . Ab	YES	NO	N/A	testing is carried out	all	no comments	-	(https://www.google.it/#q=decret
					only on donors with identified risk				o+legislativo+16+2010) malaria testing has to be performed

Tested pathogen	Donor test/ technique	Legally binding	Recommended	Recommending	Circumstances for app	lication		Regional differences	Further comments
			on national level	authority/ association	Donor profile	Tissue/cell type	Comments		
	Plasmodium sp . Ag								depending on the donor's history
	Plasmodium sp. Ag - rapid								and the characteristics of the
	test								tissues
	Plasmodium sp. NAT								
	Other technique								
Toxoplasmosis	IgM on amniotic		NO	According to the Ministerial Decree					
	membrane donors				n.16 of January 25, 2010				
	Anti-Toxoplasma gondii	YES	YES	IBMDR Standard -	all donors	all	no comments		(https://www.google.it/#q=decret
				http://ibmdr.galliera.it					o+legislativo+16+2010) and the
				/english-version/ibmdr manual-of-operation	-				national guidelines on tissues (https://www.trapianti.salute.gov.
				for HPCs.					
				IOI HPCS.					t/imgs/C_17_normativa_27_allega to.pdf) toxoplasmosis testing has
	Microscopy							-	to be performed on all amniotic
	Other technique	4							membrane donors and for the
Trypanosomiasis	Technique not specified							NO	According to the Ministerial Decree
Trypanosonnasis	Anti-Trypanosoma cruzi	YES	NO	N/A	testing is carried out	all	no comments		n.16 of January 25, 2010
	randi rrypaniosonna erazi	. 20		,	only in donors with				(https://www.google.it/#q=decret
					identified risk				o+legislativo+16+2010)
	Microscopy		-						Trypanosoma testing has to be
	Other technique								performed depending on the
specify pathogen									
BACTERIAL	Blood cultures	NO	YES	Jacie Standard -	HPC donors	all HPCs (BM, PBSC		NO	
				https://docs.google.com/vie wer?a=v&pid=sites&srcid=am		and CB)			
				FjaWUub3JnfGphY2llfGd4OjN					
				2Mzc5YzZmYTk0YmYzNzY					
		1/50	110				_	110	
Treponema pallidum (Syphilis)	Technique not specified	YES	NO	N/A	all	all		NO	
(5) (5) (5)	Anti-T. pallidum	YES	NO	N/A	all donors	all	no comments		
	Microscopy	125					no comments		
	T. pallidum NAT								
	Other technique	-							
Chlamydia trachomati		1							
, Neisseria gonorrhoeae									
Brucellosis									
Tuberculosis									
Q-fever									
specify pathogen									
FUNGI									
specify pathogen	specify technique	NO	YES	Jacie Standard -	HPC donors	all HPCs (BM, PBSC	no comments	NO	
. ,, .				https://docs.google.co		and CB)			
				m/viewer?a=v&pid=sit					
				es&srcid=amFjaWUub3					
				JnfGphY2llfGd4OjM2M					
				zc5YzZmYTk0YmYzNzY					

Tested pathogen	Donor test/ technique	Legally binding		0	Circumstances for a		Regional differences	Further comments	
			on national level		Donor profile	Tissue/cell type	Comments		
Transmissible spongiform encephalopathies									For HPCs: donors that have performed surgery or transfusion between 1980 to 1996 in UK are excluded
Other Tests									
ABO blood group testing	ABO typing	YES	NO	National laws: legge 219/2005 and DM 3.3.2005 (http://www.centronaz ionalesangue.it/pagine /normativa-000)		all HPCs (BM, PBSC and CB)	no comments	NO	For the other tissues it's not required
	Other technique								
RhD blood group testing	RhD typing	YES	NO	National laws: legge 219/2005 and DM 3.3.2005 (http://www.centronaz ionalesangue.it/pagine /normativa-000)		all HPCs (BM, PBSC and CB)	no comments	NO	For the other tissues it's not required
	Other technique						•		
HLA testing	Technique not specified HLA Ab HLA Ag	-						NO	For the other tissues it's not required
	HLA gene	YES	YES	National laws: legge 219/2005 and DM 3.3.2005 (http://www.centronaz ionalesangue.it/pagine /normativa-000)		all HPCs (BM, PBSC and CB)	no comments		
	Other technique								
Genetic testing, please specify condition	The type of techniques depends from what kind of infection/disease you suspect or you are looking for. The techniques are detailed in the IBMDR Standards	YES	YES	IBMDR Standard - http://ibmdr.galliera.it /english-version/ibmdr manual-of-operation for HPCs.	HPCs -	Cord Blood and PBSC	no comments	NO	In case of relevant medical testing or anamnestic history of hemoglobinopaties or of coagulation defects

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Colour key							
	Minimum requirements as set out in Directive 2004/23/EC						
	More stringent testing - legally binding on national level						
	More stringent testing - recommended on national level						
	Not legally binding and not recommended on national level						

### **Reproductive tissues and cells**

Tested pathogen	Donor test/ technique	Legally binding			Circumstances for appl	ication		Regional differences	Further comments
						Tissue/cell type	Comments		
VIRAL		•	-		•				•
HIV 1 and HIV 2	Anti-HIV 1	YES	NO	N/A	partner donor	gametes		NO	General note: all the information that is given for reproductive T&C
	Anti-HIV 2	YES	NO	N/A	partner donor	gametes			
	HIV 1p24			•		10			refers exclusively to partner
	HIV NAT								donation. Italy has introduced only
	Other technique								recently the heterologous donation
Hepatitis B	HBs Ag	YES	NO	N/A	partner donor	gametes		NO	
	Anti-HBc	YES	NO	N/A	partner donor	gametes			
	Anti - HBs								
	HBV NAT								
	Other technique								
Hepatitis C	Anti-HCV	YES	NO	N/A	partner donor	gametes		NO	
	HCV NAT								
	Other technique								
HTLV-1	Technique not specified	YES	NO	N/A	partner donor	gametes	no comments	NO	
	Anti-HTLV-1	YES	NO	N/A	Anti-HTLV 1 is	all	no comments		
					mandatory for donors				
					living in or coming				
					from areas with high				
					prevalence of HTLV or				
					whose sexual partners				
					or parents live or				
					originate from areas				
					with high prevalence of	F			
					HTLV-1				
	HTLV-1 NAT								
	Other technique								
HTLV-2	Technique not specified	YES	NO	N/A	partner donor	gametes	no comments	NO	
	Anti-HTLV-2								
	HTLV-2 NAT								
	Other technique								
Chikungunya virus									·
Cytomegalovirus									
Ebola Virus									
Epstein-Barr virus									
Hepatitis E									
Human Parvovirus B1	9								
Herpes simplex virus									

Tested pathogen	Donor test/ technique	Legally binding	g Recommended	Recommending				Regional differences	Further comments		
			on national level	authority/ association	Donor profile	Tissue/cell type	Comments				
West Nile Virus											
specify pathogen											
PARASITIC											
Babesiosis											
Leishmaniasis											
Malaria											
Toxoplasmosis											
Trypanosomiasis											
specify pathogen											
BACTERIAL											
<i>Treponema pallidum</i> (Syphilis)	Technique not specified	YES	NO	N/A	non-partner donors	all		NO	bacteriology testing of tissues/cells is a requirement for all types of donations		
	Anti- <i>T. pallidum</i>										
	Microscopy										
	T. pallidum NAT										
	Other technique						-				
Chlamydia trachomatis	Technique not specified	YES	NO	N/A	partner donors	all	no comments	NO			
	C. trachomatis DFA	trachomatis DFA									
	C. trachomatis EIA		1	1	T	1	- T				
	C. trachomatis NAT	YES	NO	N/A	all sperm donors except partners	sperm	mandatory for all sperm donors except partners				
	Culture						- P				
	Other technique										
Neisseria gonorrhoeae									1		
Brucellosis											
Tuberculosis											
Q-fever											
specify pathogen											
FUNGI											
specify pathogen											
Transmissible											
spongiform											
encephalopathies											
Other Tests											
ABO blood group											
RhD blood group											
HLA testing											
Genetic testing, please											
specify condition											