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Appendices to Guideline on epidemiological data on blood transmissible infections

Note: This document contains appendices to Guideline on epidemiological data on blood transmissible infections (EMA/CHMP/BWP/548524/2008).

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7 Westferry Circus • Canary Wharf • London E14 4HB • United Kingdom **Telephone** +44 (0)20 7418 8400 **Facsimile** +44 (0)20 7418 8545 **E-mail** info@ema.europa.eu **Website** www.ema.europa.eu



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1. "First time tested donor" population

Results of NAT testing without confirmation and results of additional screening tests should be reported separately using an adapted copy of the tabular format below.

	No of	HIV				HCV		HBV			
	donors	No of positive donors		HIV Pata par	No of posi	tive donors	HCV Pata par	No of positive donors		HP)/ Data par	
Calendar year:	tested in the given period (A)	HIV 1/2 Antibody (B)	HIV 1 NAT only (C)	100 000 donors (B+C)/A x 100 000	HCV Antibody (D)	HCV NAT only (E)	100 000 donors (D+E)/A x 100 000	HBsAg (F)	HBV NAT only (G)	100 000 donors (F+G)/A x 100 000	
Country 1											
Organisation A responsible											
for											
Centre 1											
Centre 2											
Summary of Organisation A											
Organisation B											
for collecting											
Centre 1											
Centre 2											
Summary of Organisation B											
Summary per country											

2. "Repeat tested donor" population

Results of NAT testing without confirmation and results of additional screening tests should be reported separately using an adapted copy of the tabular format below.

	NI 6	NI 6										
	No of	No of		HIV				HCV	T	HBV		
Calondar	donors	donations		No of positi	ve donors	HIV Rate	No of posit	ive donors	HCV Rate	No of posit	ive donors	HBV Rate
	tested in	in the	Donation			per			per			per
Voor	the given	given	frequency ^a	HIV 1/2	HIV 1	100 000	HCV	HCV NAT	100 000	HPc Ac	HBV NAT	100 000
year :	calendar	calendar	(B/A)	Antibody	NAT only	donors	Antibody	only	donors	пbsAy	only	donors
	year	year		(C)	(D)	(C+D)/A	(E)	(F)	(E+F)/A	(G)	(H)	(G+H)/A
	(A)	(B)				x 100 000			x 100 000			x 100 000
Country 1												
Organisation												
A responsible												
for collecting												
Centre 1												
Centre 2												
Summary of												
Organisation												
Α												
Organisation												
B responsible												
for collecting												
Centre 1												
Centre 2												
Summary of												
Organisation												
В												
Summary per												
country												

^a In cases where there are two sub-sets of donors (plasmapheresis and whole blood), give the frequency of donation separately for the two sub-sets.

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3. Assumptions and parameter values and sources used in risk estimation in study period

Parameters to be reported by a) value and b) source, for annual risk estimates. One table is needed for each infection, and per worst case scenario (if applicable) according to Table 4.

Parameter	Description, use	a) Value ^a	b)Source ^b (notes)
1. No. of newly acquired infections	Numerator for incidence.		(Ideally an exact and total count. If an estimate from a
(seroconversions) in "repeat tested donors"			sample, this should be explained and justified.
			Definitions must be given for seroconversions.)
2. Person years observed in "repeat tested	Denominator for incidence.		(Ideally an exact total count of days between donations.
donors"			Estimates also acceptable, e.g. from a count of a
			representative sample of donors, or from: No. of
			donations from repeat donors x mean interdonation(*)
			interval expressed in years
			(*) Interdonation interval derived from counts of
			donations and donors in a year.
3. Ratio of the i) mean interdonation interval	Check for validity of method. If this ratio is far		
for all donors to ii) median ^c interdonation	from 1, risk estimates may be over- or under-		
interval for seroconverting donors	estimates and this should be discussed.		(must be based on data from this donor population)
4. HBsAg adjustment			
<u>For HBV estimates only:</u>	Adjustment for the effect of the transient		
	nature of HBsAg on detection of new HBV		(must use interdonation interval values that are
(see Section 10.3)	infections in repeat donors.		true/justified for this donor population)
5. New donors			
If donations from "first time tested donors"	a) Incidence: To use in formula 6 to estimate		
<u>are used:</u>	new donor window period risk		
<u>Options</u>	b) New donor incidence adjustment: To		
a. New donor incidence estimate	multiply "repeat tested donor" incidence to		
b. New donor incidence adjustment.	estimate "first time tested donor" incidence		
(z,z, C,z)	(to then use in formula 6 to estimate new		
(see Section 10.2)	donor window period risk)		
6. Infectious window period	Period of time soon after infection for which		(can be from: publications; own data from
	Lesung does not detect infectivity.		seroconversion paneis; expert opinion and or expert-
			adjusted values from publications. Source must be
	1		explained and/or cited.)

^a Value for the same calendar year as per table 4

^b Own/local data must be used, unless "publications" is specified as a suitable source. If published data from other countries/regions are used for any parameters, this should be explained/justified. ^c The median should be used because the distribution of interdonation intervals for seroconverting donors can not be expected to approximate to a normal distribution (as those for all donors can).

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4. "Worst case" risk estimates – by donations

Results of "worst case" estimation(s) of "window period" risk per million donations i.e. infectious donations undetected by all routine testing performed prior to donation storage and/or pooling.

Calendar year:	 a) Results of estimation of "window period" risk per million donations for "repeat tested donors" 			b) Results cperiod" risk"first time	of estimation o per million do tested donor	f "window nations for r s"	c) Results of estimation of "window period" risk per million donations for all donors (i.e. weighted average of a) and b) according to the potential representation in a manufacturing pool			
	HBV	НСУ	HIV	HBV	HCV	HIV	HBV	HCV	HIV	
Case 1 ^a										

^a In applications covering very diverging plasma sources and/or testing strategies it might be appropriate to perform and present different potential worst case calculations, for example a "worst case" risk estimate for plasmapheresis donors from one collection organisation picked based on relatively high incidence in repeat donors and a "worst case" risk estimate for whole blood donors from one collection organisation picked based on relatively high prevalence.