INF1130/2 - Microbiological Screening Table



Effective date: 18/07/2022

EOS terminology	Examples of Terminology use	nples of Terminology used in Laboratory Reports					
Positive	Reactive	Reactivity detected as per manufacture's criteria; some laboratories may use the term for initially reactive results, pending confirmation. laboratory if further tests are going to be carried out.					
T OSITIVE	Detected/Positive			ets pre-defined manufacturer's co provide a final confirmatory res		need to check if this is a final result as for some markers,	
	Equivocal	Results fal	alls within the negative and	d positive range, i.e., in a "grey a	zone" or are discrepant.	Comments below also apply.	
Indeterminate	Indeterminate/ Inconclusive	Terms indi	When test values do not completely fit in within pre-determined criteria for positive or negative results Terms indicate that results cannot be interpreted confidently as being negative or positive Further testing may be necessary				
Negative	Negative/Not Detected		Usually used interchangeably; meets pre-defined manufacturer's criteria for negativity Indicates that the analyte tested for was not detected in the specimen				
			•	l Screening of potential organ	•	•	
Infection marker	Negative/Not Detected	ed	Reactive	Detected/Positive	Equivocal	Indeterminate/Inconclusive	
HBsAg						work is required and when to expect the final results.	
anti-HBcore			 Verify interpretation in the laboratory report; if unclear, contact Clinical Microbiologist in the testing laboratory to clarify. Recipient centre to be put in contact with Medical Microbiologist in the testing laboratory if clarification of results required pre organ 				
HIV 1 and 2 (Antigen+Antibody	Follow normal procedu	ire		uld escalate their enquiry to the r There is uncertainty about any re		the local testing centre if: scientist raises concern about a result)	
HTLV I and II Antibo HCV Antibody (+/- Antigen) HHV8 Antibody	there are appoint aircumet	ances osure). rmation o when ting.	b. A c. A - If case falls outs recipient and far - FRM5037 (Repo Microbiology res commonest set RATIONALE: Solid organ	Any situation where clinical preserif reported) Any result which is not "negative, ide MPD1131, Lead Microbiologically member(s) is required. Orting of positive micro) must be	entation or laboratory resolventation or labo	ults suggests any acute/active infection including IgM results by relate to CMV IgG, EBV IgG or Toxoplasma IgG results. The contacted in hours, if advice on management plan for quire discussion as protocols are in place to deal with positive when the report indicates past HBV infection, which is the	

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Table 1b: Mandatory Microbiological Screening of potential organ donors (Bacterial) Simplified representation of results; must always be considered in conjunction with all other relevant information available at the time							
Infection marker	Negative/ Not Detected	Reactive	Detected/Positive	Equivocal	Indeterminate/Inconclusive		
Syphilis	Follow normal procedure No special action required	interpretation of result. - Final result will inform - Discuss with lab and	need for further action re: mana refer to Medical Microbiologist if	gement of recipient and there are doubts about o			

IMPORTANT: Comments do not apply if diagnosis of this infection is currently being considered. Discuss with medical microbiologist.

Tables 2a to 2c: Non-mandatory Microbiological screening of potential organ donors

Simplified representation of results; must always be considered in conjunction with all other relevant information, particularly if there is any suspicion of acute/active infection caused by the pathogens being tested for.

Table 2a: Cytomegalovirus (CMV)

Infection marker	Negative/Not Detected	Reactive	Detected/Positive	Equivocal	Indeterminate/Inconclusive
СМV	IMPORTANT NOTE: Management of recipient will be based on donor and their own serostatus , pay attention to correct result, approximately 50% of the adult population in the UK is CMV IgG positive, so positive and negative results are equally frequent. Transfusions or IVIg in the previous 3 weeks can alter results, provide information to the Virology laboratory	enter result correctly) - CMV causes lifelong i - Anything that indicate otherwise, as this is the Always provide inform - Ask clarification regared. - The SNOD should escant a. There is uncertable and the should be considered by the constant of the should be considered. - Any result which right place?)	nfection, once IgG positive, rem. is the donor not to be negative (en e safest option lation in the request form, indical ding unusual CMV results, discuspalate their enquiry to the medical ainty about any result (i.e., the binere clinical presentation or labout is not "negative/not detected",	ains positive e.g., indeterminate/equive ting transfusions of blood lss with medical microbio al microbiologist at the lo omedical scientist raises ratory results suggests a unless they relate to CM	cal testing centre if:

Table 2b: Epstein Barr Virus (EBV)

	Negative/Net Detected	Reactive	Detected/Besitive	Equivered	Indotorminate/Inconclusive
Infection marker	Negative/Not Detected	Reactive	Detected/Positive	Equivocal	Indeterminate/Inconclusive

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EBV

IMPORTANT NOTE:

Management of recipient will be informed by donor serostatus, particularly important for paediatric recipients

Seronegative adult donors (IgG negative) not very common, pay attention to correct result

IMPORTANT NOTE: Result not required for organ acceptance; donor/recipient matching for EBV serostatus not done in practice

High seroprevalence amongst adults: seropositive result in adults is common (great majority of adults are IgG positive)

EBV causes lifelong infection, once IgG positive, remains positive

Post donation NoHK management: No action required; positive IgG result does not need to be discussed with family

Table 2c: Toxoplasma Gondii

Infection marker	Negative/Not Detected	Reactive	Detected/ Positive	Equivocal	Indeterminate/ Inconclusive
Toxoplasma Gondii	Management of recipient will be informed by donor serostatus, particularly important for heart recipients Follow normal procedure No special action required	IgG positivity is common. - The SNOD should esc a. There is uncerta b. Any situation wh c. Any result which - No special action requ	calate their enquiry to the medical calate their enquiry to the medical calculus about any result (i.e., the binere clinical presentation or labout is not "negative/not detected", whired, but serology particularly	al microbiologist at the lo omedical scientist raises ratory results suggests a unless they relate to CM' important in cardiac or	

IMPORTANT: Comments do not apply if diagnosis of this infection is currently being considered. Discuss with medical microbiologist.

Table 2d: West Nile Virus

Infection marker	Negative/ Not Detected	Reactive	Detected/Positive	Equivocal	Indeterminate/Inconclusive
West Nile Virus	Follow normal procedure No special action required	Lead to accompany result.	r from Clinical Microbiology r from Micro Lead to discuss	Post donation manage Lead Microbiologist. U through mosquito bite.	end of the inconclusive result – interpretative comments will ement of NOK: discuss case by case with discually, no implication to NOK as this infection is spread. There may be cases where NOK might have been in the adonor, so details required for assessment

Table 2e: Malaria

Infection marker	Negative/ Not Detected	Reactive	Detected/Positive	Equivocal	Indeterminate/Inconclusive
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		Two possibilities exist: (1) Malaria antibody detected but malaria DNA NOT detected. Laboratory report contains comment advising transplant centre to consider malaria in the diagnostic differential of any episode of fever in the first 4 months' post transplantation. Provide the lab report
Malaria	Follow normal procedure No special action required	(2) Malaria antibody and DNA POSITIVE. Donation team should hear from the Lead Microbiologist to discuss action. In any case, laboratory report will be issued with interpretation and advice. Provide lab report to transplant centre for immediate action which includes patient assessment and contact with the consultant parasitologist at the Hospital for Tropical Diseases.
		In the case of inconclusive antibody result, a report will be issued with interpretation and advice. As a precautionary measure, we tell tx centres to consider including malaria in the diagnostic differential etc (as above)

Table 2f: T-Cruzi

Infection marker	Negative/ Not Detected	Reactive	Detected/Positive	Equivocal	Indeterminate/Inconclusive
T-Cruzi	Follow normal procedure No special action required		r from the Lead Microbiologist cocific set of actions will have to be		ons. Report will contain interpretation and advice. This will be a arm to recipients. We will involve the Consultant parasitologist

Table 2g: Hepatitis E Virus (HEV)

Infection marker	Negative/ Not Detected	Reactive	Detected/Positive	Equivocal	Indeterminate/Inconclusive
HEV	Follow normal procedure No special action required		ort will have interpretation and onts must be tested for HEV at	will have interpretation	inate/inconclusive RNA results are obtained. Laboratory report and advice. Tx centres are encouraged to check the HEV as a precautionary measure to exclude infection.
			Post donation management o	f NoK: No action required	d as HEV is a food-borne infection

For SARS-CoV2 refer to POL304