

Appendix 1: Survey in full

Page 1: Demographics:

- Which of the following best describes your current medical position?
 - Nephrologist (Consultant, Fellow, Advanced Trainee)
 - Intensive Care Specialist (Consultant, Fellow, Advanced Trainee)
 - Transplant Surgeon (Consultant, Fellow, Trainee)
 - Hepatologist working in Transplant Unit (Consultant, Fellow, Advanced Trainee)
 - Medical doctor in other area, involved in transplant committees, transplant care or procurement services
 - Please describe:
 - Medical doctor in other area, not involved in transplant care
 - Basic Physician Trainee (BPT)
 - Junior Medical Officer (JMO) / Resident Medical Officer (RMO)
 - I am not a medical doctor
 - Other
 - Please describe:
- Where do you practice clinically?
 - Australia or New Zealand
 - Outside Australia and New Zealand
 - Not currently practicing clinically
- Please specify your main location of practice:
 - ACT
 - QLD
 - NSW
 - NT
 - SA
 - TAS
 - VIC
 - WA
 - New Zealand
- What is your gender?
 - Male
 - Female
- What is your current age:
 - <30
 - 30-39
 - 40-49
 - 50-59
 - 60-69
 - >70

Pages 2 - 6: Hepatitis B Scenarios 1-5 of 5 (randomised order)

Instructions

For the following scenarios, you will be presented with the known hepatitis B results of a potential kidney transplant donor and recipient pair. You will be asked to interpret these results for donor risk, recipient risk, and regarding the suitability of transplant given the risk of the donor and recipient.

* Low risk in this setting is defined as a potential risk of the event occurring, but that is likely to allow proceeding with transplant.

* High risk is defined as a high risk of the event occurring, and as a result being a potential contraindication to transplant.

Answers

- The donor is:
 - Hepatitis naive (no exposure to Hepatitis B)
 - Immunised against Hepatitis B
 - Exposed to Hepatitis B and no infectious risk
 - Exposed to Hepatitis B and a low infectious risk
 - Exposed to Hepatitis B and a high infectious risk
 - Unsure
 - Comment (optional)
- The recipient is:
 - Hepatitis naive (no exposure to Hepatitis B)
 - Immunised against Hepatitis B
 - Exposed to Hepatitis B with active viral infection
 - Exposed to Hepatitis B with no active viral infection
 - Unsure
 - Comment (optional)
- The transplant match between donor and recipient is (NB: Prophylaxis here refers to posttransplant prophylaxis for the recipient):
 - Suitable for transplant
 - Suitable with specific informed consent (with no prophylaxis required)
 - Suitable with specific informed consent and prophylaxis
 - Unsuitable for transplant
 - Unsure
 - Comment (optional)
- Comments (optional):
 - (Please provide any other feedback or thoughts about this case, including any extra information or other tests that would help guide your decision and how, as well as any other interpretations of the scenario)

Scenarios:

Test	Donor	Recipient
Hepatitis B Core Antibody (HbcAb)	Negative	Negative
Hepatitis B Surface Antigen (HbsAg)	Negative	Negative
Hepatitis B Surface Antibody (HbsAb)	Positive (≥ 100 mIU/mL)	Negative

Test	Donor	Recipient
Hepatitis B Core Antibody (HbcAb)	Positive	Negative
Hepatitis B Surface Antigen (HbsAg)	Negative	Negative
Hepatitis B Surface Antibody (HbsAb)	Positive (≥ 100 mIU/mL)	Negative

Test	Donor	Recipient
Hepatitis B Core Antibody (HbcAb)	Positive	Negative
Hepatitis B Surface Antigen (HbsAg)	Positive	Negative
Hepatitis B Surface Antibody (HbsAb)	Negative	Positive (12 mIU/mL)

Test	Donor	Recipient
Hepatitis B Core Antibody (HbcAb)	Positive	Positive
Hepatitis B Surface Antigen (HbsAg)	Positive	Negative
Hepatitis B Surface Antibody (HbsAb)	Negative	Negative
Hepatitis B DNA (NAT)	Positive	Negative

Test	Donor	Recipient
Hepatitis B Core Antibody (HbcAb)	Positive	Negative
Hepatitis B Surface Antigen (HbsAg)	Positive	Negative
Hepatitis B Surface Antibody (HbsAb)	Negative	Negative

Pages 7 – 9: Hepatitis C Scenarios 1-3 of 3

Instructions

For the following scenarios, you will be presented with the known hepatitis C results of a potential kidney transplant donor and recipient pair. You will be asked to interpret these results for donor risk, recipient risk, and regarding the suitability of transplant given the risk of the donor and recipient.

Answers

- The donor is:
 - Hepatitis naive (no exposure to Hepatitis C)
 - Exposed to Hepatitis C and no infectious risk
 - Exposed to Hepatitis C and an infectious risk
 - Unsure
 - Comment (optional)
- The recipient is:

- Hepatitis naive (no exposure to Hepatitis C)
- Exposed to Hepatitis C and has cleared infection
- Exposed to Hepatitis C and has current infection
- Unsure
 - Comment (optional)
- The transplant match between donor and recipient is:
 - Suitable for transplant
 - Suitable with specific informed consent
 - Unsuitable for transplant
 - Unsure
 - Comment (optional)
- Comments: (optional)
 - (Please provide any other feedback or thoughts about this case, including any extra information or other tests that would help guide your decision and how, as well as any other interpretations of the scenario)

Scenarios

Test	Donor	Recipient
Hepatitis C Antibody (anti-HCV Ab)	Positive	Negative
Hepatitis C RNA (NAT)	Negative	

Test	Donor	Recipient
Hepatitis C Antibody (anti-HCV Ab)	Positive	Positive
Hepatitis C RNA (NAT)	Positive	Negative

Test	Donor	Recipient
Hepatitis C Antibody (anti-HCV Ab)	Positive	Positive
Hepatitis C RNA (NAT)	Negative	Negative

Page 10: Your Clinical Practice

We appreciate your time in completing this survey. To finish up, please provide some brief information about your clinical practice.

- Which of the following role descriptions apply to you: (Check all that apply):
 - Clinical practice: Full-time
 - Clinical practice: Part-time
 - Research: Full-time
 - Research: Part-time
 - Other:
 - Please describe your other roles:
- Please indicate which groups of patients you care for in your clinical practice: (Check all that apply):
 - Patients awaiting kidney transplant

- Patients receiving a kidney transplant, at a transplanting centre pre, intra or postoperatively
- Long-term patients who have received a kidney transplant
- Kidney transplant donors (living)
- Kidney transplant donors (deceased)
- Other:
 - Please describe your other patient groups:
- On average, per month, what number of patients do you see who are awaiting kidney transplant or post kidney transplant?
 - 0
 - 1-20
 - 21-40
 - >40
- To what extent do you agree with the following statement? “I know where to find current guidelines to assess hepatitis risk in kidney transplantation.”
 - Strongly Disagree
 - Disagree
 - Neither agree nor disagree
 - Agree
 - Strongly Agree
- OPTIONAL: The results of this study may be used to develop resources that can guide clinical decision-making. If you like, you may suggest ways you would prefer to receive targeted education about this topic. (Please check all that apply):
 - Continuing medical education (CME)
 - Workshop - at hospital
 - Workshop - externally organised
 - Workshop - integrated into meetings eg, Annual Scientific Meetings (ASM)
 - Online resources - online education modules
 - Online resources - decision support tools
 - Guidelines
 - Journal / review articles
 - Other
 - Comment

We appreciate the time taken to complete this survey. We intend to use information gathered from this survey to develop clinically-targeted education, and updated guidelines in the area.

Please click the submit button below to finish the survey. Links to the current relevant guidelines will be found on the subsequent page.

Additional Comments: (optional)

Appendix 2: logistic regression models for 4 transplant suitability scenarios where guideline concordance was <50%, for outcomes

(i) guideline concordant responses and (ii) most common alternative responses. Significant p values (<0.05) highlighted in grey.

Factor	Guideline Concordant Responses						Most Common Alternative Responses					
	Univariable			Multivariable			Univariable			Multivariable		
	OR	95% CI	p value	OR	95% CI	p value	OR	95% CI	p value	OR	95% CI	p value
Scenario			<0.01			<0.01			<0.01			<0.01
Donor: HBcAb +ve HBsAg -ve HBsAb +ve	1			1			1			1		
Recipient: HBcAb -ve HBsAg -ve HBsAb -ve												
Donor: HBcAb +ve HBsAg +ve HBsAb -ve	3.3 6	1.78 - 6.33		3.5	1.86 - 6.61		0.5 5	0.32 - 0.97		0.5 5	0.31 - 0.96	
Recipient: HBcAb -ve HBsAg -ve HBsAb +ve												
Donor: anti-HCV +ve HCV NAT -ve	3.9 4	2.08 - 7.44		4.1 4	2.19 - 7.81		0.5 8	0.33 - 1.01		0.5 7	0.33 - 1.00	
Recipient: anti-HCV -ve HCV NAT n/a												
Donor: anti-HCV +ve HCV NAT -ve	0.3	0.12 - 0.72		0.2 9	0.12 - 0.71		1.8 5	1.07 - 3.22		1.8 7	1.08 - 3.26	
Recipient anti-HCV +ve HCV NAT - ve												
Role			0.06			0.01			0.3			0.07
<i>Nephrologist</i>	1			1			1			1		
<i>ICU + Other</i>	0.4 7	0.22 - 1.00		0.3 5	0.18 - 0.82		1.2 1	0.65 - 2.26		1.5 5	0.81 - 3.00	

<i>Surgeon</i>	0.6	0.30 - 1.23		0.4 9	0.22 - 1.07		1.2 1	0.65 - 2.26		1.3 8	0.73 - 2.63	
<i>Hepatologist</i>	0.3 6	0.10 - 1.25		0.2 3	0.06 - 0.92		2.4 6	0.94 - 6.48		3.3 7	1.22 - 9.34	
Gender = Male	1.0 2	0.67 - 1.57	0.92				0.9 3	0.62 - 1.39	0.72			
Awareness of Guidelines = Yes	1.6 7	1.09 - 2.58	0.02				0.9 8	0.66 - 1.47	0.94			
Patient Burden >20	1.5 7	1.04 - 2.38	0.03				0.7 4	0.50 - 1.10	0.14			
Acute care of transplant patients = Yes	1.6 7	1.08 - 2.58	0.02	1.6 9	1.01 - 2.80	0.04	0.9 2	0.61 - 1.37	0.67			
Age			0.13						0.27			
<40	1						1					
40-49	0.6 9	0.42 - 1.15					1.4 7	0.92 - 2.37				
50-59	1.2	0.69 - 2.08					1.0 6	0.61 - 1.83				
60+	0.5 7	0.21 - 1.51					1.7 4	0.75 - 4.06				
Location			<0.01			<0.01			<0.01			<0.01
<i>Other States</i>	1			1			1			1		
<i>QLD</i>	1.1 5	0.56 - 2.34		1.6 1	0.70 - 3.73		1.0 5	0.51 - 2.19		0.8 3	0.38 - 1.81	
<i>NSW</i>	0.5 7	0.31 - 1.05		0.5 2	0.27 - 1.04		1.7 8	0.99 - 3.20		1.6 7	0.91 - 3.08	
<i>VIC</i>	0.9 8	0.51 - 1.90		0.9 4	0.44 - 2.01		1.4 9	0.77 - 2.87		1.4 6	0.74 - 2.88	

	NZ	0.2 5	0.10 - 0.62		0.1 7	0.06 - 0.46		3.8 1	1.80 - 8.04		4.3 1	1.99 - 9.35	
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