

Title	Entecavir as prevention of Hepatitis B virus (HBV) reactivation in at risk renal patients receiving immunosuppressive therapy.		
Areas where Protocol/Guideline applicable e.g. District, Hospital, ITU, Ward	SESLHD		
Authorised Prescribers	Renal, Gastroenterology, Infectious Diseases		
Indication for use	Prevention of HBV reactivation in moderate to high risk renal patients receiving immunosuppressive therapy.		
	For haematology/oncology patients receiving cancer therapy refer to eviQ Clinical resource: <u>Hepatitis B virus prophylaxis in immunocompromised adults.</u>		
Clinical condition	Investigations:		
	HBV surface antigen (HBsAg), HBV surface antibody (HBsAb), HBV core antibody (anti-HBc), HBV DNA		
	Inclusion criteria:		
	HBsAg and/or DNA positive. This is consistent with active disease (acute or chronic hepatitis B). Gastroenterology/ID must be consulted.		
	HBsAg negative and anti-HBc positive <u>AND</u> receiving B cell-depleting, B-cell active or anti-CD20 therapy (e.g. Rituximab)		
	For kidney transplant recipients (HBsAg and DNA negative):		
	 anti-HBc positive kidney donor (past infection) with non-immune recipient (HBsAb <100IU/L) 		
	 anti-HBc positive kidney recipient (past infection) with HBsAb <10IU/L 		
	Note: HBsAg negative and anti-HBc positive patients NOT receiving high-risk immunosuppression outlined in (2) may be moderate risk and require consultation with Gastroenterology or Infectious Diseases.		
Contra-indications	Previously demonstrated hypersensitivity to entecavir or tablet excipients (note: tablets contain lactose)		
	Lamivudine-exposure – do not use entecavir because cross-resistance is common		
Precautions	Coinfection with HIV - avoid entecavir unless treated concurrently with antiretroviral		
Place in Therapy	First line.		

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Entecavir for HBV reactivation i	T .		l Local Health District	
	0.5 mg ONCE	,		
		· · · · · · · · · · · · · · · · · · ·	r renal impairment	
Dosage		ne clearance L/min)	Entecavir dose	
	3	0 - 49	0.25 mg ONCE daily or 0.5 mg every 48 hours	
	1	0 - 29	0.5 mg every 72 hours	
		< 10	0.5 mg every 5 – 7 days	
	Haemodialysis or CAPD		0.05 mg ONCE daily or 0.5 mg every 5 – 7 days	
	No dosage ad	djustment required	for hepatic impairment	
Duration of therapy	Ideally commence 1 week prior to intense immunosuppressive therapy (but should not delay transplant or commencement of immuno- or chemo-therapy) Duration of therapy based on clinical condition.			
	18 – 24 months	After completion of intense immunosuppressive therapy (e.g. B cell-depleting, B cell active, anti-CD20 therapy, or kidney transplant recipients that receive thymoglobulin and/or rituximab for treatment of acute cellular and/or antibody mediated rejection in their post-transplant course)		
	12 months	Post renal transplant who are HBcAb positive, or received a transplant from HBcAb positive donor, who meet criteria outlined above in <i>clinical condition</i>		
	Indefinite	positive and/or [acute/chronic he	recipients who are HBsAg DNA positive (i.e. have epatitis B), these patients d and managed by y/ID	
	Recommendations on the duration of antiviral prophylaxis differ across international guidelines. The above should be used as a general guidelines, but the timing of cessation of antiviral therapy should be individualised and left to the discretion of the hepatologist. The duration of treatment is to be dependent on clinical judgement and on a case-by-case basis.			
Important Drug Interactions	Nil significant	Nil significant.		
Administration instructions	Swallow tablet whole on an empty stomach (at least 2 hours after a meal and at least 2 hours before the next meal).			
Monitoring requirements	serology annuments		• • •	

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Basis of Protocol/Guideline (including sources of evidence, references)	1. British Transplantation Society Guidelines for Hepatitis B and Solid Organ Transplantation. January 2018 2. Solid Organ Transplantation from Hepatitis B virus positive donors: consensus guidelines for recipient Management. (2015) 3. National Comprehensive Cancer Network (NCCN) 2018 Prevention and Treatment of Cancer-Related Infections 4. New England Journal of Medicine (2006) A Comparison of Entecavir and Lamivudine for HBeAG-Positive Chronic Hepatitis B 5. American Medical Association (2014) Entecavir vs. Lamivudine for Prevention of Hepatitis B Virus Reactivation Among Patients With Untreated Diffuse Large 8-Cell Lymphoma Receiving R-CHOP Chemotherapy 6. Liver International (2013) Entecavir versus lamivudine for hepatitis B prophylaxis in patients with haematological disease 7. Loomba, R., and Liang, T.J., Gastroenterology (2017) Hepatitis B Reactivation Associated with Immune Suppressive and Biological Modifier Therapies: Current Concepts, Management Strategies, and Future Directions 8. Hicks, L.K., Lien, K., and Chan, K.K.W., American Society of Clinical Oncology (2015) ASCO Provisional Clinical Opinion for Hepatitis B Virus Screening Before Cancer Therapy: Are These the Right Tests in the Right Patients? 9. Perrillo, R.P., Gish, R., and Falck-Ytter Y.T., American Gastroenterological Association (2015) American Gastroenterological Association Institute Technical Review on Prevention and Treatment of Hepatitis B Virus Reactivation During Immunosuppressive Drug Therapy 10. Reddy, K.R., Beavers, K.L., Hammond, S.P., Lim, J.K., and Falck-Ytter, Y.T., American Gastroenterological Association (2015) American Gastroenterological Association (2015) American Gastroenterological Association (2015) American Gastroenterological Association (2015) American Gastroenterological Association Institute Guideline on the Prevention and Treatment of Hepatitis B Virus Reactivation During Immunosuppressive Drug Therapy 11. Terrault, NA, Lok, A S.F., McMahon, B.J., Change, K., Hwang, J.P., Jonas, M.M., Brown Jr, R.S., Bzowel,
Groups consulted in development of this protocol	Infectious Diseases Department

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GOVERNANCE		
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Chairperson, QUM Committee	Dr John Shephard	
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