Appendix 8 – List of Immune Compromising Treatments CASL (2018) – Management of HBV Infection¹

Risk of HBV reactivation with immunosuppression and chemotherapy in HBsAg-Positive, and HBsAg-Negative, anti-HBc Total positive patients.¹¹ TNF = tumour necrosis factor

Risk Level	HBV serology	Immunosuppressive or chemotherapy
High-risk (> 10% chance of reactivation)	HBsAg positive OR HBsAg negative and anti-HBc Total positive (high risk regardless of anti-HBs titre levels)	B-cell-depleting agents such as rituximab and ofatumumab.
	HBsAg positive	 Anthracycline derivatives such as doxorubicin and epirubicin. Corticosteroid therapy for ≥ 4 weeks (prednisone equivalent > 10–20 mg/day).
Moderate-risk (1-10% chance of reactivation)	HBsAg positive OR HBsAg negative and anti-HBc Total positive (may be lower risk and monitoring may be sufficient if high anti-HBs titres > 100 IU/L)	 TNF-α inhibitors: etanercept, adalimumab, certolizumab, infliximab. Other cytokine inhibitors and integrin inhibitors: abatacept, ustekinumab, natalizumab, vedolizumab. Tyrosine kinase inhibitors: imatinib, nilotinib, ibrutinib.
	HBsAg positive	 Corticosteroid therapy for ≥ 4 weeks (prednisone equivalent < 10 mg/day).
	HBsAg negative and anti-HBc Total positive (may be lower risk and monitoring may be sufficient if high anti-HBs titres > 100 IU/L)	 Corticosteroid therapy for ≥ 4 weeks (prednisone equivalent > 10–20 mg/day). Anthracycline derivatives: doxorubicin and epirubicin.
Low-risk (< 1% chance of reactivation)	HBsAg positive OR HBsAg negative and anti-HBc Total positive (low risk especially if high anti-HBs titres > 100 IU/L)	 Traditional immunosuppressive agents: azathioprine, 6-mercaptopurine, methotrexate Intra-articular corticosteroids. Corticosteroid therapy for ≤ 1 week.
	HBsAg negative/anti-HBc Total positive (low risk especially if high anti-HBs titres > 100 IU/L)	 Corticosteroid therapy for ≥ 4 weeks (prednisone equivalent < 10 mg/day).

Coffin CS, Fung SK, Alvarez F, Cooper CL, Doucette KE, Fournier C, et al. Management of Hepatitis B Virus Infection: 2018 Guidelines from the Canadian Association for the Study of Liver Disease and Association of Medical Microbiology and Infectious Disease Canada. Can Liver J [Internet]. 2018 Dec 1 [cited 2019 Apr 18]; Available from: https://canlivj.utpjournals.press/doi/abs/10.3138/canlivj.2018-0008