

HEPATITIS B IMMUNOGLOBULIN-VF

Indication	<ul style="list-style-type: none"> Prophylaxis in babies born to hepatitis B surface antigen (HBsAg) positive mothers¹ <ul style="list-style-type: none"> Refer to the Australasian Society for Infectious Diseases: <i>Management of perinatal infections</i>² 	
INTRAMUSCULAR	Presentation	<ul style="list-style-type: none"> Vial: 100 international units
	Dosage	<ul style="list-style-type: none"> 100 international units once
	Preparation	<ul style="list-style-type: none"> Bring vial to room temperature before use³ Use immediately after opening vial (no antimicrobial preservative)¹
	Administration	<ul style="list-style-type: none"> Draw up prescribed dose Intramuscular injection into thickest part of the vastus lateralis in the anterolateral thigh (maximum 0.5 mL per site)⁴ <ul style="list-style-type: none"> If multiple injections into same thigh are necessary⁵, separate injections sites by at least 2.5 cm
Contraindication Caution	<ul style="list-style-type: none"> Contraindication <ul style="list-style-type: none"> Previous hypersensitivity reaction¹ Caution <ul style="list-style-type: none"> Nil known 	
Special considerations	<ul style="list-style-type: none"> A local protocol may aid identification of IM injection sites (e.g. vitamin K₁ into left thigh, hepatitis B vaccine into right thigh, hepatitis B immunoglobulin-VF into left thigh at least 2.5 cm from vitamin K₁ IM injection site) Manufactured from human plasma¹ 	
Timing	<ul style="list-style-type: none"> Recommend at birth, preferably within 12 hours and certainly within 48 hours of birth⁶ Initiate hepatitis B vaccination regimen at the same time^{1,3} 	
Monitoring	<ul style="list-style-type: none"> Injection site for swelling, tenderness^{1,7} Measure HBsAg and anti-HBS at 3–12 months after completion of entire vaccine course 	
Compatibility	<ul style="list-style-type: none"> No information³ 	
Incompatibility	<ul style="list-style-type: none"> No information³ 	
Interactions	<ul style="list-style-type: none"> Hepatitis B vaccine: if administered at the same time as hepatitis B vaccine, give in alternate thigh¹ 	
Stability	<ul style="list-style-type: none"> Refrigerate at 2–8 °C. Protect from light¹ 	
Side effects	<ul style="list-style-type: none"> Integumentary: injection site tenderness¹, erythema¹, bruising¹, urticaria¹, skin lesions (rare)¹ Nervous: fever¹, convulsions (rare)¹ 	
Actions	<ul style="list-style-type: none"> Contains specific neutralising antibodies (mainly IgG) against HBsAg¹ 	
Abbreviations	Anti-HBS: antibody to HBsAg, HBsAg: hepatitis B surface antigen, IgG: immunoglobulin G, IM intramuscular	
Keywords	Hep B, hepatitis B, hepatitis B immunoglobulin, HBIG, HBsAg, hepatitis surface antigen, neonatal medicine, neonatal monograph	



The Queensland Clinical Guideline [Neonatal medicines](#)⁸ is integral to and should be read in conjunction with this monograph. Refer to the disclaimer. Destroy all printed copies of this monograph after use.

References

1. Therapeutic Goods Administration (TGA). Hepatitis B Immunoglobulin-VF. [Internet]. Canberra: Australian Government; July 2022 [cited 2026 January 05]. Available from: <https://www.tga.gov.au>.
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5. Australian Technical Advisory Group on Immunisation (ATAGI). Hepatitis B. [Internet]. Canberra: Australian Government Department of Health, Disability and Ageing; 2026 [cited 2026 February 20]. Available from: <https://www.immunisationhandbook.health.gov.au>.
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7. Merative Micromedex®/Neofax®. Hepatitis B Vaccine (Recombinant). In: IBM Micromedex® NeoFax®/Pediatrics (electronic version). Ann Arbor, Michigan, USA 2025 [cited 2025 December 24]. Available from: <https://www.neofax.micromedexsolutions.com/neofax>.
8. Queensland Clinical Guidelines. Neonatal medicines. Guideline No. MN25.54-V2-R30. [Internet]. Queensland Health. 2025. [cited 2026 January 15]. Available from: <https://www.health.qld.gov.au/gcg>.

Document history

ID number	Effective	Review	Summary of updates
NMedQ21.065-V1-R26	06/05/2021	06/05/2026	Endorsed by Queensland Neonatal Services Advisory Group (QNSAG)
NMedQ26.064-V2-R31	24/02/2026	24/02/2031	Full review. Endorsed by QNSAG <ul style="list-style-type: none"> • No change to dosage • Updated: compatibility, incompatibility, interactions, presentation, references

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