

# HEPATITIS B IMMUNOGLOBULIN-VF

<b>Indication</b>	<ul style="list-style-type: none"> <li>Prophylaxis in babies born to hepatitis B surface antigen (HBsAg) positive mothers<sup>1</sup></li> </ul>	
<b>IM</b>	<b>Presentation</b>	<ul style="list-style-type: none"> <li>Vial: 100 international units</li> </ul>
	<b>Dosage</b>	<ul style="list-style-type: none"> <li>100 international units once</li> </ul>
	<b>Preparation</b>	<ul style="list-style-type: none"> <li>Bring vial to room temperature before use<sup>2</sup></li> <li>Use immediately after opening vial (no antimicrobial preservative)<sup>1</sup></li> </ul>
	<b>Administration</b>	<ul style="list-style-type: none"> <li>Draw up prescribed dose</li> <li>Intramuscular injection into thickest part of the vastus lateralis in the anterolateral thigh (maximum 0.5 mL per site)<sup>3</sup> <ul style="list-style-type: none"> <li>If multiple injections into same thigh are necessary<sup>4</sup>, separate injection sites by at least 2.5 cm</li> </ul> </li> </ul>
<b>Special considerations</b>	<ul style="list-style-type: none"> <li>Give at birth if mother HbsAg positive <ul style="list-style-type: none"> <li>Must be given within 48 hours of exposure to the virus<sup>5</sup></li> </ul> </li> <li>Initiate hepatitis B vaccination regimen at the same time<sup>1,2</sup></li> <li>Consider implementing a local protocol to aid identification of IM injection sites (e.g. vitamin K<sub>1</sub> into left thigh, hepatitis B vaccine into right thigh, hepatitis immunoglobulin into left thigh at least 2.5 cm from vitamin K<sub>1</sub> IM injection site)</li> <li>Manufactured from human plasma<sup>1</sup></li> </ul>	
<b>Monitoring</b>	<ul style="list-style-type: none"> <li>Not required</li> </ul>	
<b>Compatibility</b>	<ul style="list-style-type: none"> <li>No information<sup>2</sup></li> </ul>	
<b>Incompatibility</b>	<ul style="list-style-type: none"> <li>No information<sup>2</sup></li> </ul>	
<b>Interactions</b>	<ul style="list-style-type: none"> <li>Hepatitis B vaccine <ul style="list-style-type: none"> <li>If hepatitis B vaccine is administered at the same time as hepatitis B immunoglobulin-VF, give in alternate thigh<sup>1</sup></li> </ul> </li> </ul>	
<b>Stability</b>	<ul style="list-style-type: none"> <li>Refrigerate at 2–8 °C. Protect from light<sup>1</sup></li> </ul>	
<b>Side effects</b>	<ul style="list-style-type: none"> <li>Integumentary: injection site tenderness<sup>1</sup>, erythema<sup>1</sup>, bruising<sup>1</sup>, urticaria<sup>1</sup>, skin lesions (rare)<sup>1</sup></li> <li>Nervous: fever<sup>1</sup>, convulsions (rare)<sup>1</sup></li> </ul>	
<b>Actions</b>	<ul style="list-style-type: none"> <li>Contains specific neutralising antibodies (mainly IgG) against HBsAg<sup>1</sup></li> </ul>	
<b>Abbreviations</b>	HBsAg: hepatitis B surface antigen, IgG: immunoglobulin G, IM intramuscular	
<b>Keywords</b>	Hep B, hepatitis B, hepatitis B immunoglobulin, HBIG, HBsAg	



The Queensland Clinical Guideline *Neonatal Medicines* 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

- Therapeutic Goods Administration (TGA). Hepatitis B Immunoglobulin-VF. [Internet]. Canberra: Australian Government; May 2020 [cited 2021 January 05]. Available from: <https://www.tga.gov.au>.
- Australian Injectable Drugs Handbook. Nicolette Burrige, Keli Symons, editors. Immunoglobulin Hepatitis B. 8th ed. [Internet]. New South Wales: Society of Hospital Pharmacists of Australia (SHPA); November 2020 [cited 2021 January 05]. Available from: <https://aidh.hcn.com.au>.
- Hockenberry M, Wilson D. Wong's Nursing Care of Infants and Children. 10th ed. USA: Elsevier; 2014.
- Australian Government Department of Health. Hepatitis B. [Internet] 2020 [cited 2021 February 05]. Available from: <https://immunisationhandbook.health.gov.au>.
- Australian Government Department of Health. Hepatitis B immunoglobulin. [Internet] 2020 [cited 2021 February 26]. Available from: <https://immunisationhandbook.health.gov.au>.

## Document history

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