





ADULT

MONOPHOSPHOTHIAMINE (THIAMINE or VITAMIN B1)

This document should be read in conjunction with this [DISCLAIMER](#)

Presentation	Tablet: 100mg. Ampoule: 100mg/mL
Dose	<u>Prevention of Wernicke's encephalopathy (hyperemesis gravidarum, alcoholism)</u> Oral: 50–300 mg daily (usually 100mg once daily in hyperemesis). Absorption may be improved by giving in divided doses IV/IM (high risk patients): 100mg once daily for up to 5 days (if necessary), then 100 mg orally once daily <u>Treatment of Wernicke's encephalopathy</u> IV: Minimal evidence for dose and treatment duration. IV treatment for at least 5 days is preferred
Administration	<u>Oral</u> Absorption may be impaired in malnourished and alcoholic patients; give first few doses parenterally <u>IV Injection</u> <i>Dilution:</i> Dilute dose in 10 - 20mL of Sodium Chloride 0.9% to allow slow injection <i>Administration:</i> Inject SLOWLY over at least 3 to 5 minutes. <u>IV Infusion</u> <i>Dilution:</i> Dilute dose in 100mL of Sodium Chloride 0.9% <i>Administration:</i> Infuse over 30 minutes or as a continuous infusion as part of TPN solutions

Pregnancy	<p>1st Trimester: Safe to use</p> <p>2nd Trimester: Safe to use</p> <p>3rd Trimester: Safe to use</p>
Breastfeeding	Safe to Use
Monitoring	Patients at risk of alcohol-related thiamine deficiency should receive parenteral thiamine before or with glucose; administration of glucose without thiamine may precipitate Wernicke's encephalopathy
Clinical Guidelines and Policies	<p>Pregnancy Care: First Trimester</p> <p>Total Parenteral Nutrition</p>
References	<p>Australian Medicines Handbook. Thiamine. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2017 [cited 2017 Dec 17]. Available from: https://amhonline-amh-net-au</p> <p>Society of Hospital Pharmacists of Australia. Thiamine. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2017 [cited 2017 Dec 17]. Available from: https://aidh-hcn-com-au</p> <p>The Royal Women's Hospital. Thiamine. In: Pregnancy and Breastfeeding Medicines Guide [Internet]. Parkville (Victoria): The Royal Women's Hospital; 2016 [cited 2017 Dec 17]. Available from: https://thewomenspbmg-org-au</p>

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