

Prescribing Protocol Intravenous Aspirin



Title	IV Aspirin in Neurointerventional Procedures and Intensive Care Areas
Areas where Protocol/Guideline applicable e.g. District, Hospital, ITU, Ward	Radiology, ICU and HDU areas
Areas where Protocol/Guideline not applicable	Outside of the above settings, paediatrics
Authorised Prescribers	Neurointerventionalists ICU Consultants Other prescribers under the supervision of an ICU Consultant or Neurointerventionalist
Indication for use	Anti-platelet therapy
Clinical condition	<ol style="list-style-type: none"> 1. Intra-operative treatment of platelet aggregation/ intravascular thrombus 2. Patients requiring ultra-rapid platelet blockade e.g. hyperacute carotid stenting 3. Urgent requirement for aspirin for anti-platelet therapy in patients without nasogastric access who are not suitable for oral administration, including patients who cannot swallow safely. Includes patients with acute ischaemic stroke, arterial dissection, acute MI, and endovascular stent placement with bare metal or drug eluting stents.
Place in Therapy	First-line
If part of combination therapy list other drugs	Commonly used with other antiplatelet agents such as ticagrelor or clopidogrel depending on clinical condition Intraprocedurally other agents such as heparin, tirofiban and abciximab may be used.
Contra-indications	Allergy to aspirin or excipients (aminoacetic acid) or NSAIDs Aspirin-sensitive asthma
Precautions	<p>Risk of bleeding</p> <p>Contraindicated in severe active bleeding or disease states with an increased risk of severe bleeding, eg bleeding disorders, erosive gastritis or peptic ulcer disease, severe hepatic disease.</p> <p>Other drugs that can affect the clotting process may increase the risk of bleeding; avoid combinations or monitor closely.</p> <p>Spinal injection or puncture</p> <p>Seek specialist advice before considering intrathecal or epidural analgesia or anaesthesia, or lumbar puncture (risk of epidural haematoma, which may cause paralysis).</p> <p>Renal - Use with caution in severe impairment because of increased risk of bleeding and of further deterioration of renal function.</p> <p>Elderly - People >75 years taking aspirin have an increased risk of major bleeding (especially upper GI) which can be</p>

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	fatal; consider prophylaxis with a PPI (see Prevention in NSAID-induced ulcers).
Dosage	Intraprocedurally: 250-500mg IV stat Maintenance: 100mg IV daily or as directed by interventional neuroradiology team
Duration of therapy	Until oral or nasogastric aspirin can be safely initiated
Important Drug Interactions	NSAIDs - Increased risk of gastric ulceration. NSAIDs - non-selective NSAIDs may reduce the antiplatelet activity of low-dose aspirin and may reduce or negate its cardioprotective effect. Anticoagulants - Combination increases risk of bleeding
Administration Instructions	Reconstitute ONE 500mg vial with supplied 5mL diluent (=100mg/mL). Then dilute the required volume of the resulting solution in 100mL sodium chloride 0.9% and give by IV infusion over 60 minutes. The reconstituted solution is for single use only and unused solution must be discarded. Supplied diluent contains water for injection and aminoacetic acid. If supplied diluent unavailable, can use 5mL water for injection for reconstitution. Compatible solutions: Sodium chloride 0.9%, Glucose 5%, Glucose 10%, Hartmann's.
Monitoring requirements	Usual ICU/procedural observations (as appropriate), including neuro-observations Signs of bleeding Hypersensitivity reactions
Management of complications	Management of anaphylaxis
Basis of Protocol/Guideline (including sources of evidence, references)	Aspergic Product Information IV Aspirin Product Information Australian Medicines Handbook, Last modified by AMH: July 2020 International Stroke Trial Collaborative Group, The International Stroke Trial (IST): a randomised trial of aspirin, subcutaneous heparin, both, or neither among 19 435 patients with acute ischaemic stroke, The Lancet, 1997, Vol 349. Society of Hospital Pharmacists of Australia, Australian Injectable Drugs Handbook, 8th Edition, 2020 Schoergenhofer C, Hobl EL et. al. Acetylsalicylic acid in critically ill patients: a cross-sectional and a randomized trial, Eur J Clin Invest 2017; 47 (7): 504–512
Groups consulted in development of this protocol	ICU Department, POWH Pharmacy Department, POWH Neurosurgery Department, POWH

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GOVERNANCE	
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