

-

AUTHORIZED BY: ISSUE DATE: CATEGORY: TITLE:	CPC Quality of Care Committee June 2002 ACP/PCP Medications ACETYLSALICYLIC ACID (ASA)	REVISION DATE: PAGE:	Sept 2019 1 of 2	
Other Names:	Enteric Coated ASA (ECASA), Aspir	in, Novasen, Entroph	en	
Classifications:	 Non-Steroidal Anti-Inflammatory D Nonopioid, Antiplatelet Agent, Antip 	 Non-Steroidal Anti-Inflammatory Drug (NSAID), Analgesic, Nonopioid, Antiplatelet Agent, Antipyretic 		
Pharmacodynamics	 ASA is a weak acid, which is easily and rapidly transformed for absorption in the stomach. It is hydrolyzed into salicylate, a highly protein bound drug, which is easily transformed for excretion in the liver Platelet Antiaggregant effects: ASA inhibits Thromboxane A₂ production, which is responsible for platelet aggregation. With the 			
	 decrease in platelet aggregation the easily. The changes to the platelet though the cell only lives from 5 to Analgesic/Anti-inflammatory effects enzyme, which decreases the productions inflammation 	e blood does not forr s from ASA are irrev 7 days s: Inactivates cyclo o uction of prostagland sensitivity and decre	n clots as ersible, xygenase in in the ases	
	 Antipyretic effects: By inhibiting the flow is enhanced to the vessels of the release of heat through evaporation easily released, the production of heat 	ne release of prostag the skin. This allows n and convection. The leat is not reduced by	andin, blood for easier hough heat is ASA	
	Other information: At high doses there is a direct stimulation respiratory center in the medulla, which increases rate and deprespirations (hyperventilation). You may also find increase of alkalosis from the hyperventilation as O ₂ consumption and CO2 production increase. Also at high doses ASA will block the sec re-absorption of uric acid		on of the depth of of respiratory CO ₂ secretion and	
Onset:	• 15-30 min.			
Peak:	 Chewable: 2 hrs Enteric Coated: 6 – 8 hrs 			
Duration:	Dose dependent			
Indications:	 Prophylactic treatment of cardiac ischemia/angina pain Mild to moderate pain relief Relief of fever Relief of inflammation Combined use for thrombolytic care of Myocardial infarction (MI) 			

Contraindications:	 Hypersensitivity or allergy to the medication ASA or NSAID administration induced bronchoconstriction, angioedema, generalized urticaria, severe rhinitis, laryngeal edema, or shock Current active bleeding Evidence of Cerebral Vascular Accident (CVA) or head injury within the last 24 hrs Active peptic ulcer
Precautions:	 History of gastrointestinal ulcers Administration during last trimester of pregnancy should be avoided as it may inhibit clotting factors of mother and unborn child and prolong the pregnancy or labour Discontinue use at least one week prior to elective surgery Asthma (asthmatic patients may have hypersensitivity to ASA and precaution should be taken with first time use) Use with extreme caution in patients with decreased renal function, bleeding tendencies, significant anemia, hypoprothrombinemia, thrombocytopenia, vitamin K deficiency or severe hepatic disease.
Adverse Reactions:	 Pulmonary edema may occur with chronic or acute large dose ingestion Gastrointestinal (GI): ulcer, hemorrhage, dyspepsia, abdominal pain, heartburn, N & V, diarrhea at high doses Tinnitus (with larger doses)
Drug Interaction:	 Anticonvulsants: Large doses of ASA may increase phenytoin (Dilantin) serum levels by inhibition of phenytoin metabolism Antihyperglycemic agents: ASA increases the antihyperglycemic responses to oral hypoglycemic drugs, thus decreasing blood glucose levels Non-steroidal Anti-inflammatory Drugs (NSAIDS): Concomitant use of ASA and NSAIDS increases the risk of GI side effects while providing no additional therapeutic benefits
Special Considerations:	Route: PO500mg/kg may be fatal
Preparations:	 Enteric coated or uncoated tablets of variable strength (80 mg, 81 mg,160 mg, 325 mg)
References:	 Lexicomp 2019 Compendium of Pharmaceuticals and Specialties 2013 Ontario Provincial ALS Patient Care Standards, Version 4.6 2015 AHA Guidelines : ACLS

<u>NOTE</u>: The information contained herein does not supersede or negate the MoHLTC Provincial Advanced Life Support Patient Care Standards and should only serve as general information about the medication itself. For medication dosages, please refer to the current version of the Ontario Provincial ALS Patient Care Standards.