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ASPEN Artwork Panel			
AW Version: 2		Page: 1 of 2	
New Item Code: 00002_0000074818			
Previous Item Code: N/A			
Market Indonesia			
Number of Colours: 1			
BLACK			
Manufacturing Site: Aspen Small Volume Parenteral			
Drawing Reference: SVP-PI-002			
Drawing Version: 01			
Originated by: Sami Hajredin			
Originated at: ASPEN Dandenong			
Originated on: 17-MAR-2021			
Amended on: 15-APR-2021			

ASPEN Artwork Panel • August 2019 • Version 7

2D Datamatrix N° XXXX

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<div><div>Clinical Trial Data</div><div>Vascular Disorders</div><div>Events which have been attributed to histamine release are indicated by a hash (#).</div><div>Common Hypotension (mild, transient)#, Skin flushing#</div><div>Respiratory, thoracic and mediastinal disorders</div><div>Events which have been attributed to histamine release are indicated by a hash (#).</div><div>Uncommon Bronchospasm#</div><div>Post-Marketing Data</div><div>Immune system disorders</div><div>Very rare Anaphylactic reaction, anaphylactoid reaction</div><div>Very rarely, severe anaphylactoid or anaphylactic reactions have been reported in patients receiving <i>TRACRIUM</i> in conjunction with one or more anaesthetic agents.</div><div>Nervous system disorder</div><div>Not known Seizures</div><div>There have been reports of seizures in ICU patients who have been receiving atracurium concurrently with several other agents. These patients usually had one or more medical conditions predisposing to seizures (e.g. cranial trauma, cerebral oedema, viral encephalitis, hypoxic encephalopathy, uraemia). A causal relationship to laudanosine has not been established. In clinical trials, there appears to be no correlation between plasma laudanosine concentration and the occurrence of seizures.</div><div>Skin and subcutaneous tissue disorders</div><div>Rare Urticaria</div><div>Musculoskeletal and connective tissue disorders</div><div>Not known Myopathy, muscle weakness</div><div>There have been some reports of muscle weakness and/or myopathy following prolonged use of muscle relaxants in severely ill patients in the ICU. Most patients were receiving concomitant corticosteroids. These events have been seen infrequently in association with atracurium and a causal relationship has not been established.</div></div>		<div></div>	<div></div>													
<div><div>3.9 Overdose</div><div>Symptoms and Signs</div><div>Prolonged muscle paralysis and its consequences are the main signs of overdosage.</div><div>Treatment</div><div>It is essential to maintain a patent airway together with assisted positive pressure ventilation until spontaneous respiration is adequate.</div><div>Full sedation will be required since consciousness is not impaired.</div><div>Recovery may be hastened by the administration of anticholinesterase agents accompanied by atropine or glycopyrrolate, once evidence of spontaneous recovery is present.</div><div>4. PHARMACOLOGICAL PROPERTIES</div><div>4.1 Pharmacodynamics</div><div>Mechanism of Action</div><div>Atracurium is a highly selective, competitive or non-depolarising neuromuscular blocking agent.</div><div>Pharmacodynamic Effects</div><div><i>TRACRIUM</i> has no direct effect on intra-ocular pressure, and is therefore suitable for use in ophthalmic surgery.</div></div>																
<div><div>4.2 Pharmacokinetics</div><div>Metabolism</div><div>Atracurium is inactivated by Hofmann elimination, a non-enzymatic process which occurs at physiological pH and temperature, and by ester hydrolysis catalysed by non-specific esterases.</div><div>Tests with plasma from patients with low levels of pseudocholinesterase show that the inactivation of atracurium proceeds unaffected.</div><div>Variations in the blood pH and body temperature of the patient within the physiological range will not significantly alter the duration of action of atracurium.</div><div>Elimination</div><div>The termination of the neuromuscular blocking action of <i>TRACRIUM</i> is not dependent on its hepatic or renal metabolism or excretion. Its duration of action, therefore, is unlikely to be affected by impaired renal, hepatic or circulatory function.</div><div>The elimination half-life of atracurium is approximately 20 minutes, and the volume of distribution is 0.16 L/kg. Atracurium is 82% bound to plasma proteins.</div><div>Special Patient Populations</div><div>Injection:</div><div>Haemofiltration and haemodialysis have a minimal effect on plasma levels of atracurium and its metabolites, including laudanosine. The effects of haemodialysis and haemoperfusion on plasma levels of atracurium and its metabolites are unknown.</div></div>																
<div><div>Concentrations of metabolites are higher in ICU patients with abnormal renal and/or hepatic function (<i>see Warnings and Precautions</i>). These metabolites do not contribute to neuromuscular block.</div><div>Pre-Clinical Safety Data</div><div>Mutagenicity</div><div>Atracurium has been evaluated in three short-term mutagenicity tests. It was not mutagenic in either the <i>in vitro</i> Ames salmonella assay at concentrations up to 1000 micrograms/plate or in an <i>in vivo</i> rat bone marrow assay at doses up to those which resulted in neuromuscular blockade. In a second <i>in vitro</i> test, the mouse lymphoma assay, mutagenicity was not observed at doses up to 60 micrograms/mL which killed up to 50% of the treated cells but it was moderately mutagenic at concentrations of 80 micrograms/mL in the absence of metabolising agent and weakly mutagenic at very high concentrations (1200 micrograms/mL) when metabolising enzymes were added. At both concentrations over 80% of the cells were killed.</div><div>In view of the nature of human exposure to <i>TRACRIUM</i>, the mutagenic risk to patients undergoing surgical relaxation with <i>TRACRIUM</i> must be considered negligible.</div><div>Carcinogenicity</div><div>Carcinogenicity studies have not been performed.</div><div>5. PHARMACEUTICAL PARTICULARS</div><div>5.1 List of Excipients</div><div>Benzenesulphonic Acid Solution</div><div>Water for Injections</div><div>5.2 Shelf-Life</div><div>24 months.</div><div>5.3 Special Precaution for Storage</div><div>Short periods at temperature up to 25°C are permissible but ONLY to allow transportation or temporary storage outside of a cold store. It is estimated that a 5% loss of potency would occur if <i>TRACRIUM</i> injection was stored at 25°C for one month.</div><div>Store at temperatures between 2°C and 8°C.</div><div>Protect from light.</div><div>Do not freeze.</div><div>Any unused <i>TRACRIUM</i> injection from opened ampoules should be discarded.</div><div>5.4 Nature and Contents of Container</div><div>As registered locally</div></div>																
<div><div>5.5 Incompatibilities</div><div>No data.</div><div>5.6 Use and Handling</div><div><i>TRACRIUM</i> is compatible with the following infusion solutions for the times stated below:</div><div><table><tr><th>Infusion Solution</th><th>Period of Stability</th></tr><tr><td>Sodium Chloride i.v. Infusion BP (0.9% w/v)</td><td>24 hours</td></tr><tr><td>Glucose i.v. Infusion BP (5% w/v)</td><td>8 hours</td></tr><tr><td>Ringer's Injection USP</td><td>8 hours</td></tr><tr><td>Sodium Chloride (0.18% w/v) and Glucose (4% w/v) i.v. Infusion BP</td><td>8 hours</td></tr><tr><td>Compound Sodium Lactate i.v. Infusion BP (Hartmann's Solution for Injection)</td><td>4 hours</td></tr></table></div><div>When diluted in these solutions to give <i>TRACRIUM</i> besylate concentrations of 0.5 mg/mL and above, the resultant solutions will be stable in daylight for the stated periods at temperatures of up to 30°C.</div><div>Packaging</div><div>Box, 5 ampoules @ 2.5 mL, Reg.No.</div><div>Box, 5 ampoules @ 5 mL, Reg.No</div></div>	Infusion Solution	Period of Stability	Sodium Chloride i.v. Infusion BP (0.9% w/v)	24 hours	Glucose i.v. Infusion BP (5% w/v)	8 hours	Ringer's Injection USP	8 hours	Sodium Chloride (0.18% w/v) and Glucose (4% w/v) i.v. Infusion BP	8 hours	Compound Sodium Lactate i.v. Infusion BP (Hartmann's Solution for Injection)	4 hours				
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<div><div>HARUS DENGAN RESEP DOKTER</div><div>Made by Aspen SVP (Pty) Ltd</div><div>Port Elizabeth, South Africa</div><div>Imported by:</div><div>PT Mitsubishi Tanabe Pharma Indonesia</div><div>Bandung, Indonesia</div><div>Trademarks are owned by or licensed to the Aspen group of companies</div><div>© 2021 Aspen group of companies or its licensor. All rights reserved.</div><div>PI based on GDS19/PI06 (03 June 2013)</div></div>																
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150 mm Measuring Bar