For use in Dogs

**CLINICAL PHARMACOLOGY:**

Propofol is an intravenous anesthetic injection for use in dogs. Propofol has a broad spectrum of use in veterinary anesthesia, facilitating rapid induction and maintenance of anesthesia. It is a short-acting, fast-acting anesthetic that provides a rapid onset of action, allowing for a smooth transition from anesthesia to emergence.

**INDUCTION OF GENERAL ANESTHESIA:**

Induction of general anesthesia with propofol is rapid, with most dogs losing consciousness within 5-30 seconds of administration. The use of premedicants, such as acepromazine, xylazine, oxymorphone, or glycopyrrolate, can be beneficial in reducing the stress response and improving the patient's comfort during induction.

**MAINTENANCE OF GENERAL ANESTHESIA:**

Maintenance of anesthesia with propofol can be adjusted based on the patient's response and the surgical procedure's requirements. Infusion rates can be calculated based on the patient's body weight, with dosages ranging from 1.5 to 4 mg/kg per minute. Acepromazine or xylazine can be added to the propofol to reduce the propofol requirement and minimize any postoperative side effects.

**OVERDOSAGE:**

In the event of an overdose, the patient should be treated supportively, with attention to maintaining airway patency, ventilation, and circulatory stability. Hypotension, apnea, and oxygen desaturation are potential complications that should be monitored closely.

**SIDE EFFECTS:**

Common side effects of propofol include hypotension, apnea, and oxygen desaturation. Other complications such as tachypnea, bradycardia, and changes in blood pressure may also be observed.

**REFERENCES:**


**TABLE: Propofol Dosage Guidelines**

<table>
<thead>
<tr>
<th>Premedicant</th>
<th>Induction Dosage</th>
<th>Maintenance Dosage</th>
<th>Propofol Rate of Administration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acepromazine</td>
<td>0.25 mg/kg iv</td>
<td>0.1 mg/kg/min</td>
<td>1.5 mg/kg/min</td>
</tr>
<tr>
<td>Xylazine</td>
<td>0.3 mg/kg iv</td>
<td>0.1 mg/kg/min</td>
<td>2.0 mg/kg/min</td>
</tr>
</tbody>
</table>

**RECOMMENDATIONS:**

1. Detailed information on the pharmacokinetics and use of drug accountability procedures appropriate to the clinical setting is recommended.

**CONTACT INFORMATION:**

For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at www.fda.gov/reportanimalae.