

FOR I.V. **ADMINISTRATION**

DESCRIPTION

propofol) Injectable Emulsion is a sterile, nonpyrogenic emulsion containing 10 mg/mL of propofol suitable for intravenous administration cally described as 2,6-diisopropylphenol and has a molecular weight of 178.27. The structural and molecular formulas are: υΙΡRIVAN® (pr Propofol is chemic

Propofol is very slightly soluble in water and, thus, is formulated in a white, oil-in-water emulsion. The pKa is 11. The octanol/water partition coefficient for propofol is 6761:1 at a pH of 6-8.5. In addition to the active component, propofol, the formulation also contains soybean oil (100 mg/mL), glycerol (22.5 mg/mL), egg lecithin (12 mg/mL), and disodium edetate (0.005%); with sodium hydroxide to adjust pH. The DIPRIVAN Injectable Emulsion is isotonic and has a pH of 7.8 s.

The state of the s ADMINISTRATION, HANDLING PROCEDURES). THERE HAVE BEEN REPORTS IN WHICH FAILURE TO USE ASEPTIC TECHNIQUE WHEN HANDLING DIPRIVAN INJECTABLE EMULSION WAS ASSOCIATED WITH MICROBIAL CONTAMINATION OF THE PRODUCT AND WITH FEVER, INFECTION/SEPSIS, OTHER LIFE-THREATENING ILLNESS, AND/OR DEATH.

CLINICAL PHARMACOLOGY

DIPRIVAN Injectable Emulsion is an intravenous sedative-hypnotic agent for use in the induction and maintenance of anesthesia or sedation. Intravenous jection of a therapeutic dose of propofol produces hypnosis rapidly with minimal excitation, usually within 40 seconds from the start of an injection (the time or one arm-brain circulation). As with other rapidly acting intravenous anesthetic agents, the half-time of the blood-brain equilibration is approximately 1 to minutes, and this accounts for the rapid induction of anesthesia.

Pharmacodynamic properties of propofol are dependent upon the therapeutic blood propofol concentrations. Steady state propofol blood concentrations are generally proportional to infusion rates, especially within an individual patient. Undesirable side effects such as cardiorespiratory depression are likely to occur at higher blood concentrations which result from bolus dosing or rapid increase in infusion rate. An adequate interval (3 to 5 minutes) must be allowed

occur at higher blood concentrations which result from bolus dosing or rapid increase in infusion rate. An adequate interval (3 to 5 minutes) must be allowed between clinical dosage adjustments in order to assess drug effects. The hemodynamic effects of DIPRIVAN linjectable Emulsion during induction of anesthesia vary. If spontaneous ventilation is maintained, the major cardiovas-cular effects are arterial hypotension (sometimes greater than a 30% decrease) with little or no change in heart rate and no appreciable decrease in cardiac output in fiventilation is assisted or controlled (positive pressure ventilation), the degree and incidence of decrease in cardiac output in cardiac output in sessisted or controlled (positive pressure ventilation), the stimulation of endotracheal intuitation and surgery may return arterial pressure towards normal. However, cardiac output may remain depressed. Comparative clinical studies have shown that the hemodynamic effects of DIPRIVAN linjectable induction of another sheeks are generally more pronounced than with other IV induction agents traditionally used for this purpose.

Clinical and preclinical studies suggest that DIPRIVAN injectable Emulsion is rarely associated with ejevation of plasma histamine levels. Induction of anesthesia with DIPRIVAN injectable induction of anesthesia with DIPRIVAN injectable induction of anesthesia with DIPRIVAN injectable induction of plasma histamine levels. Induction of anesthesia with DIPRIVAN injectable induction of plasma histamine levels. Induction of anesthesia with DIPRIVAN injectable induction of anesthesia with DIPRIVAN injectable induction of plasma histamine levels. Induction of anesthesia with DIPRIVAN injectable induction of plasma histamine levels. Induction of anesthesia with DIPRIVAN injectable induction of a constant of the plasma of a plasma of the plasma of

During maintenance. DIPRIVAN Injectable Emulsion causes a decrease in ventilation usually associated with an increase in carbon dioxide tension which

During maintenance, DIPRIVAN Injectable Emulsion causes a decrease in ventilation usually associated with an increase in carbon dioxide tension which may be marked depending upon the rate of administration and other concurrent medications (e.g., opioids, sedatives, etc.).

During monitored anesthesic care (MAC) sedation, attention must be given to the cardiorespiratory effects of DIPRIVAN Injectable Emulsion. Hypotension, oxyhemoglobin desaturation, apnea, airway obstruction, and/or oxygen desaturation can occur, especially following a rapid bolus of DIPRIVAN Injectable Emulsion. During initiation of MAC sedation, silven initision or slow injection techniques are preferable over rapid bolus administration, and during maintenance of MAC sedation, a variable rate infusion is preferable over intermittent bolus administration in order to minimize undesirable cardiorespiratory effects. In the elderly, debilitated, or ASA III/V patients, rapid (single or repeated) bolus dose administration should not be used for MAC sedation. (See WARNINGS.) Clinical studies in humans and studies in animals show that DIPRIVAN Injectable Emulsion does not suppress the admental response to ACTH. Preliminary findings in patients with normal intraocular pressure which graves in extensive successions.

pressure which may be associated with a concomitant decrease in systemic vascular resistance. Animal studies and limited experience in susceptible patients have not indicated any propensity of DIPRIVAN Injectable Emulsion to induce malignant hyper-

thermia.

Studies to date indicate that DIPRIVAN Injectable Emulsion when used in combination with hypocarbia increases cerebrovascular resistance and decreases cerebral blood flow, cerebral metabolic oxygen consumption, and intracranial pressure. DIPRIVAN Injectable Emulsion does not affect cerebrovascular reactivity to changes in arterial carbon dioxide tension (see Clinical Trias - Neuroanesthesia).

Hemosiderin deposits have been observed in the livers of dogs receiving DIPRIVAN Injectable Emulsion containing 0.005% disodium edetate over a four week period; the clinical significance is unknown.

Pharmacokinetics

The proper use of DIPRIVAN Injectable Emulsion requires an understanding of the disposition and elimination characteristics of propotol.

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The progressionistics of propotol are well described his a three comportment lies and elimination characteristics of propotol.

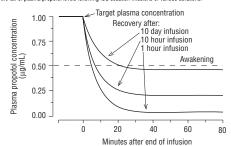
The pharmacokinetics of propofol are well described by a three compartment linear model with compartments representing the plasma, rapidly equilibrating tissues, and slowly equilibrating tissues

Following an IV bolus dose, there is rapid equilibration between the plasma and the highly perfused tissue of the brain, thus accounting for the rapid onset of anesthesia. Plasma levels initially decline rapidly as a result of both rapid distribution and high metabolic clearance. Distribution accounts for about half of this decline following a bolus of propofol.

However, distribution is not constant over time, but decreases as body tissues equilibrate with plasma and become saturated. The rate at which equilibration occurs is a function of the rate and duration of the influsion. When equilibration occurs there is no longer a net transfer of propofol between tissues and plasma. Discontinuation of the recommended doses of DIPRIVAN injectable Emulsion after the maintenance of ansettseis for approximately one-hour, or for sedation in the ICU for one-day, results in a prompt decrease in blood propofol concentrations and rapid awakening. Longer influsions (10 days of ICU sedation) result in accumulation of significant tissue stores of propofol, such that the reduction in circulating propofol is slowed and the time to awakening is increased.

By daily titration of DIPRIVAN Injectable Emulsion dosage to achieve only the minimum effective therapeutic concentration, rapid awakening within 10 to 15 milinutes will occur even after long-term administration. If, however, higher than necessary infusion levels have been maintained for a long time, propofol will be redistributed from fat and muscle to the plasma, and this return of propofol from peripheral tissues will slow recovery.

The figure below illustrates the fall of plasma propofol levels following ICU sedation infusions of various durations.



The large contribution of distribution (about 50%) to the fall of propofol plasma levels following brief infusions means that after very long infusions (at steady state), about half the initial rate will maintain the same plasma levels. Failure to reduce the infusion rate in patients receiving DIPRIVAN Injectable Emulsion for extended periods may result in excessively high blood concentrations of the drug. Thus, titration to clinical response and daily evaluation of sedation levels are

important during use of DIPRIVAN Injectable Emulsion infusion for ICU sedation, especially of long duration.

Adults: Propofol clearance ranges from 23-50 mL/kgmin (1.6 to 3.4 L/min in 70 kg adults). It is chiefly eliminated by hepatic conjugation to inactive activation in the administered dose. Propofol has a steady state volume

metabolies which are excreted by the kindley. A glucuronue conjugate accounts for about 50% of the administered dose. Proportion fas a steady state volume of distribution (10-day infusion) approaching 60 L/ya in healthy adults. A difference in pharmacokinetics due to gender has not been observed. The terminal half-life of propofol after a 10-day infusion is 1 to 3 days.

Geriatrics: With increasing patient age, the dose of propofol needed to achieve a defined anesthetic end point (dose-requirement) decreases. This does not appear to be an age-related change of pharmacodynamics or brain sensitivity, as measured by EEG burst suppression. With increasing patient age pharmacokinetic changes are such that for a given IV bolus dose, higher peak plasma concentrations occur, which can explain the decreased dose requirement. These higher peak plasma concentrations in the elderly can predispose patients to cardiorespitatory effects including hypotension, ariavay obstruction, and/or oxygen desaturation. The higher plasma levels reflect an age-related decrease in volume of distribution and reduced intercompartmental clearance. Lower doses

are thus recommended for initiation and maintenance of sedation/anesthesia in elderly patients. (See CLINICAL PHARMACOLOGY - Individualization of Dosage.)

Pediatrics: The pharmacokinetics of propofol were studied in 53 children between the ages of 3 and 12 years who received DIPRIVAN Injectable Emulsion for periods of approximately 1-2 hours. The observed distribution and clearance of propofol in these children were similar to adults.

Organ Failure: The pharmacokinetics of propofol do not appear to be different in people with chronic hepatic circhonic renal impairment compared to adults with normal hepatic and renal function. The effects of acute hepatic or renal failure on the pharmacokinetics of propofol have not been

Clinical Trials

Anesthesia and Monitored Anesthesia Care (MAC) Sedation

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Pediatric Anesthesia

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TABLE 1. PEDIATRIC INDUCTION OF ANESTHESIA

Age Range	No. of Patients	Induction Dose	Injection Duration
Birth through	353	2.5 mg/kg	20 sec.
16 years		(1-3.6)	(6-45)

TABLE 2. PEDIATRIC MAINTENANCE OF ANESTHESIA

ng DIPRIVAN Injectable Emuls

	Age Range	No. of Patients	Maintenance Dosage µg/kg/min	<u>Duration minutes</u>
2 months to 2 years 68 199 (82 - 394) 65 (12 - 282) 2 to 12 years 165 188 (12 - 1041) 69 (23 - 374) -12 through 16 years 27 161 (84 - 359) 69 (26 - 251)	2 to 12 years	165	188 (12 - 1041)	69 (23 - 374)

Also includes all time following induction dose

Neuroanesthesia

DIPRIVAM Injectable Emulsion was studied in 50 patients undergoing craniotomy for supratentorial tumors in two clinical trials. The mean lesion size (anterior/posterior and lateral) was 31 mm and 32 mm in one trial and 55 mm and 42 mm in the other trial respectively.

TABLE 3. NEUROANESTHESIA CLINICAL TRIALS Patients Receiving DIPRIVAN Injectable Emulsion Median and (Range)

Patient Type	No. of Patients	Induction Bolus Dosages (mg/kg)	Maintenance Dosage (μg/kg/min)	Maintenance Duration (min)
Craniotomy patients	50	1.36	146	285

In ten of these patients, DIPRIVAN Injectable Emulsion was administered by infusion in a controlled clinical trial to evaluate the effect of DIPRIVAN Injectable Emulsion on cerebrospinal fluid pressure (CSFP) in mean arterial pressure was automissed only intusted in a continued unlined teal to expense a service of a new representation of cerebrospinal fluid pressure (CSFP). The mean arterial pressure was maintained relatively constant over 25 minutes with a change from baseline of 4% s. 17% (mean ± SD), whereas the percent change in cerebrospinal fluid pressure (CSFP) was -46% ± 14%. As CSFP is an indirect measure of intracranial pressure (CP), when given by infusion or slow bolus, DIPRIVAN Injectable Emulsion, in combination with hypocarbia, is capable of decreasing ICP independent of changes in arterial pressure.

Intensive Care Unit (ICU) Sedation

Adult retents:
DIPRIVAN Injectable Emulsion was compared to benzodiazepines and/or opioids in 14 clinical trials involving a total of 550 ICU patients. Of these, 302 received DIPRIVAN Injectable Emulsion and comprise the overall safety database for ICU sedation. Six of these studies were carried out in the US or Canada and provide the basis for dosage recommendations and the adverse event profile.
Information from 193 literature reports of DIPRIVAN Injectable Emulsion used for ICU sedation in over 950 patients and information from the clinical trials are summarized below:

TARLE 4 ADULT ICU SEDATION CLINICAL TRIALS AND LITERATURE

	Numbe	r of Patients	Sedation	on Dose	Sedation Duration
ICU Patient Type	Trials	Literature	μg/kg/min	mg/kg/h	Hours
Post-CABG	41	_	11 (0.1-30)	0.66 (0.006-1.8)	10 (2-14)
	_	334	(5-100)	(0.3-6)	(4-24)
Post-Surgical	60	_	20 (6-53)	1.2 (0.4-3.2)	`18 ´ (0.3-187)
Neuro/Head	_	142	(23-82)	(1.4-4.9)	(6-96)
Trauma	7	_	25 (13-37)	1.5 (0.8-2.2)	168 (112-282)
Medical	— 49	184	(8.3-87) 41	(0.5-5.2) 2.5	(8 hr-5 days) 72
Wedical	45	76	(9-131)	(0.5-7.9)	(0.4-337) (4-96)
Special Patients ARDS/Resp.	_	76	(3.3-62)	(0.2-3.7)	(4-90)
Failure COPD/Asthma	=	56 49	(10-142) (17-75)	(0.6-8.5) (1-4.5)	(1 hr-8 days) (1-8 days)
Status			()	()	(,-)
Epilepticus	_	15	(25-167)	(1.5-10)	(1-21 days)
Tetanus	_	11	(5-100)	(0.3-6)	(1-25 days)

Trials (Individual patients from clinical studies) Literature (Individual patients from published reports) CABG (Coronary Artery Bypass Graft) ARDS (Adult Respiratory Distress Syndrome)

Cardiac Anesthesia

DIPRIVAN Injectable Emulsion was evaluated in 5 clinical trials conducted in the US and Canada, involving a total of 569 patients undergoing coronary artery bypass graft (CABG), Of these, 301 patients received DIPRIVAN Injectable Emulsion. They comprise the safety database for cardiac anesthesia and provide the basis for dosage recommendations in this patient population, in conjunction with reports in the published literature. Individualization of Dosage

General: STRICT ASEPTIC TECHNIQUE MUST ALWAYS BE MAINTAINED DURING HANDLING. DIPRIVAN INJECTABLE EMULSION IS A SINGLE-USE

BENERICAL REPORT TO CHANDALO ANGE. NEOROUM ENGAGE TO TRETAIN DURING FRONT OF COMPATING MISSORIAMENTS. IN THE SECURITY.

PARENTERAL PRODUCT WHICH CONTAINS 0.005% DISCONUM EDETATE TO RETARD THE RATE OF GROWTH OF MICROORGANISMS IN THE EVENT OF ACCIDENTAL EXTRINSIC CONTAINNATION, HOWEVER, DIPRIVAIN INJECTABLE EMULSION CAN STILL SUPPORT THE GROWTH OF MICROORGANISMS AS IT IS NOT AN ANTIMICROBIALLY PRESERVED PRODUCT UNDER USP STANDARDS. ACCORDINGLY, STRICT ASEPTIC TECHNIQUE MUST STILL BE IT IS NOT AN ANTIMICROBALLY PRESERVED PRODUCT UNDER USP STANDARDS. ACCORDINGLY, STRICT ASEPTIC TECHNIQUE MUST STILL BE ADHERED TO, DO NOT USE IF CONTAMINATION IS SUSPECTED. DISCARD UNINES DE PORTIONS AS DIBECTED WITHIN THE REQUIRED TIME LIMITS (SEE DOSAGE AND ADMINISTRATION, HANDLING PROCEDURES). THERE HAVE BEEN REPORTS IN WHICH FAILURE TO USE ASEPTIC TECHNIQUE WHEN HANDLING DIPRIVAN INJECTABLE EMULSION WAS ASSOCIATED WITH MICROBIAL CONTAMINATION OF THE PRODUCT AND WITH FEVER, INFECTIONSEPSIS, OTHER LIFE-THREATENING LLINESS, AND/OR DEATH.

Propolol blood concentrations at steady state are generally proportional to infusion rates, especially in individual patients. Undesirable effects such as cardiorespiratory depression are filledy to occur at higher blood concentrations which result from bolus dosing or rapid increases in the infusion rate. An adequate interval (3 to 5 minutes) must be allowed between clinical dosage adjustments in order to assess drug effects. When administering DIPRIVAM Injectable Emulsion by Intisions, syringe pumps or volumentic jumps are recommended to provide controlled infusion rates. When infusion DIPRIVAM Injectable Emulsion to patients undergoing magnetic resonance imaging, metered control devices may be utilized if mechanical numps are immerative.

pumps are impractical impractical pumps are impractical impractical impractical impractical signs (increases in pulse rate, blood pressure, sweating and/or tearing) that indicate a response to surgical stimulation or lightening of anosthesia may be controlled by the administration of DIPRIVAN injectable Emulsion 25 mg (25 mL) to 50 mg (5 mL) incremental boluses and/or by increasing

For minor surgical procedures (e.g., body surface) nitrous oxide (60%-70%) can be combined with a variable rate DIPRIVAN Injectable Emulsion infusion

For minor surgical procedures (e.g., body surface) inflores code (60%-70%) can be combined with a variable rate DIPHIVAM injectable Emulsion influsion by provide saffishactory anesthesia. With more stimulating surgical procedures (e.g., intra-adhornian), or it supplementation with nitrous oxide is not provided, administration rate(s) of DIPRIVAM injectable Emulsion and/or opioids should be increased in order to provide adequate anesthesia. Influsion rates should always be titrated downward in the absence of clinical signs of light anesthesia until a mild response to surgical stimulation is obtained in order to avoid administration of DIPRIVAM injectable Emulsion at rates higher than are clinically necessary. Generally, rates of 50 to 100 µg/kg/min in adults should be achieved during maintenance in order to optimize recovery times.

Other drugs that cause CNS depression (hyponocis-sedatives, inhalational anesthetics, and opioids) can increase CNS depression induced by propoful. Morphine premedication (0.15 mg/kg) with nitrous oxide 67% in oxygen has been shown to decrease the necessary propoful injection maintenance infusion and the more decreased to be of accession become of the consequent decreases the necessary propoful injection maintenance infusion

rate and therapeutic blood concentrations when compared to non-narcotic (lorazepam) premedication.

Induction of General Anesthesia

Adult Patients: Most adult patients under 55 years of age and classified ASA I/II require 2 to 2.5 mg/kg of DIPRIVAN Injectable Emulsion for induction

Adult Patients: Most adult patients under 55 years of age and classified ASA VII require 2 to 2.5 mg/kg of DIPRIVAN Injectable Emulsion for induction when unpremedicated or when premedicated with oral benzodiazepines or intramsusciane opiotis. For induction, DIPRIVAN Injectable Emulsion should be titrated (approximately 40 mg every 10 seconds) against the response of the patient until the clinical signs show the onset of anesthesia. As with other sedative-hypnotic agents, the amount of intravenous opioid and/or benzodiazepine premedication will influence the response of the patient to an induction dose of DIPRIVAN Injectable Emulsion. Elderly, Debilitated, or ASA III/V Patients: It is important to be familiar and experienced with the intravenous use of DIPRIVAN Injectable Emulsion before treating elderly, bebilitated, or ASA III/V patients: Due to the reduced clearance and higher blood concentrations, most of these patients require approximately 1 to 1.5 mg/kg (approximately 20 mg every 10 seconds) of DIPRIVAN injectable Emulsion for induction of anesthesia according to their condition and responses. A rapid bolus should not be used, as this will increase the likelihood of undesirable cardiorespiratory depression including hypotension, apnea, airway obstruction, and/or oxygen desaturation. (See DOSAGE AND ADMINISTRATION.)

Pediatric Patients: Most patients aged 3 years through 16 years and classified ASA I or II require 2.5 to 3.5 mg/kg of DIPRIVAN Injectable Emulsion for induction when unpremedicated or when lightly premedicated with oral benzodiazepines or intramuscular opioids. Within this dosage range, younger pediatric paths may require higher induction doses than older pediatric patients. As with other seative-trypnotic agents, the amount of intravenous opioid and proposed premediation will influence the response of the patient to an induction dose of DIPRIVAN injectable Emulsion. A lower dosage is recommended for pediatric patients classified as ASA III or IV. Attention should be paid to minimize pain on injection when administering DIPRIVAN Injectable Emulsion to pediatric patients. Boluses of DIPRIVAN Injectable Emulsion may be administered via small veins if pretreated with lidocaine or via antecubital or larger veins (See PRECAUTIONS - General)

(see PHECAUTIONS - General).

Neurosurgical Patients: Slower induction is recommended using boluses of 20 mg every 10 seconds. Slower boluses or infusions of DIPRIVAN Injectable Emulsion for induction of anesthesia, titrated to clinical responses, will generally result in reduced induction dosage requirements (1 to 2 mg/kg). (See PRECAUTIONS and DOSAGE AND ADMINISTRATION.)

Cardiac Anesthesia: DIPRIVAN Injectable Emulsion has been well-studied in patients with heromorphic patients with heromorphic patients with service patients with patients with congenital heart disease is limited. As with other anesthetic and seadative-hypnotic agents. DIPRIVAN injectable Emulsion in healthy patients causes a decrease in blood pressure that is secondary to decreases in preload (ventricular filling volume at the end of the disable) and afterroad cartrial resistance at the hearting on of the systello. The amonitude of the secondary is nonoringful to the Noord and Effect is concentrations exhibited. These (arterial resistance at the beginning of the systole). The magnitude of these changes is proportional to the blood and effect site concentrations achieved. These

concentrations depend upon the dose and speed of the induction and maintenance infusion rates.

In addition, lower heart rates are observed during maintenance with DIPRIVAN Injectable Emulsion, possibly due to reduction of the sympathetic activity and/or resetting of the baroreceptor reflexes. Therefore, anticholinergic agents should be administered when increases in vagal tone are anticipated.

As with other anesthetic agents, DIPRIVAN Injectable Emulsion reduces myocardial oxygen consumption. Further studies are needed to confirm and

As with other anesthetic agents, DIPRIVAN Injectable Emulsion reduces myocardial oxygen consumption. Further studies are needed to confirm and delineate the extent of these effects on the myocardium and the coronary vascular system.

Morphine premedication (0.15 mg/kg) with nitrous oxide 67% in oxygen has been shown to decrease the necessary DIPRIVAN Injectable Emulsion maintenance infusion rates and therapeutic blood concentrations when compared to non-narcotic (lorazepam) premedication. The rate of DIPRIVAN Injectable Emulsion administration should be determined based on the patient's premedication and adjusted according to clinical responses.

A rapid bollus induction should be avoided. A slow rate of approximately 20 mg every 10 seconds until induction onset (0.5 to 1.5 mg/kg) should be used. In order to assure adequate anesthesia, when DIPRIVAN Injectable Emulsion is used as the primary agent, maintenance intribusion and the substance of the primary agent, provided the proposed provided and the provided provided provided and the provided provid the primary anesthetic, it should not be administered with the high-dose opioid technique as this may increase the likelihood of hypotension (see PRECAU-TIONS - Cardiac Anesthesia).

Table 5.	Cardiac	Anesthesia	Techi	niques
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	lable 3. Galulac Allesillesia lecili	iliques
Primary Agent	Rate	<u>Secondary Agent/Rate</u> (Following Induction with Primary Agent)
DIPRIVAN Injectable Emulsion Preinduction anxiolysis Induction	25 µg/kg/min 0.5-1.5 mg/kg over 60 sec	OP10ID ³ /0.05-0.075 μg/kg/min (no bolus)
Maintenance (Titrated to Clinical Response)	100-150 μg/kg/min	
OPIOID ^b		DIPRIVAN Injectable Emulsion/ 50-100 μg/kg/min (no bolus)
Induction Maintenance	25-50 μg/kg 0.2-0.3 μg/kg/min	(,

- $\begin{array}{lll} {}^a \mbox{ OPIOID is defined in terms of fentanyl equivalents, i.e.,} \\ 1 \mbox{ μg of fentanyl} &=& 5 \mbox{ μg of alfentanil (for bolus)} \\ &=& 10 \mbox{ μg of alfentanil (for maintenance)} \end{array}$

 - = 0.1 µg of sufentanil
- ^b Care should be taken to ensure amnesia with concomitant benzodiazepine therapy

Maintenance of General Anesthesia

Maintenance of General Anesthesia
Adult Patients:
In adults, anesthesia can be maintained by administering DIPRIVAN Injectable Emulsion by infusion or intermittent IV bolus injection. The patient's clinical
response will determine the infusion rate or the amount and frequency of incremental injections.

Continuous Infusion: DIPRIVAN Injectable Emulsion 100 to 200 µg/kg/min administered in a variable rate infusion with 60%-70% nitrous oxide and oxygen
provides anesthesia for patients undergoing general surgery. Maintenance by infusion of DIPRIVAN Injectable Emulsion should immediately follow the induction
does in order to provide astifactory or continuous anesthesia during the induction flage, piliper rates of
infusion are generally required (150 to 200 µg/kg/min) for the first 10 to 15 minutes. Infusion rates should subsequently be decreased 30%-50% during the first

half-hour of maintenance. Generally, rates of 50 - 100 µg/kg/min in adults should be achieved during maintenance in order to optimize recovery times. Other drugs that cause CNS depression (hypnotics/sedatives, inhalational anesthetics, and opioids) can increase the CNS depression induced by proportion. Intermittent Bous: Increments of DIPRIVAN injectable Emulsion 55 mg (2.5 m L) to 50 mg (5 m L) may be administered with nitrous oxide in adult patients undergoing general surgery. The incremental boliuses should be administered when changes in vital signs indicate a response to surgical stimulation or light

Suresia.

Pediatric Patients: DIPRIVAN Injectable Emulsion administered as a variable rate infusion supplemented with nitrous oxide 60% - 70% provides satisfactory

Pediante Patients: DIPHYWAW injectable emission administered as a various large large introduction and introduction and another and another and the production of the production of the production, maintenance by infusion of DIPRIVAM injectable Emulsion at a rate of 200 - 300 µg/kg/min should immediately follow the induction dose. Following the first half-hour of maintenance, infusion rates of 125-150 µg/kg/min are typically needed. DIPRIVAM Injectable Emulsion SHOULD BE TITRATED TO ACHIEVE THE DESIRED CLINICAL EFFECT. Younger pediatric patients may require higher maintenance infusion rates than older pediatric patients may require higher maintenance infusion rates than older pediatric patients. (See Table 2 Clinical Trials.)

DIPRIVAN Injectable Emulsion has been used with a variety of agents commonly used in anesthesia such as atropine, scopolamine, glycopyrrolate, diazepam, depolarizing and nondepolarizing muscle relaxants, and opioid analgesics, as well as with inhalational and regional anesthetic agents

potentially also indiveloped acting inside readants, and option diregists, as we wan instancial and regional expensional getties. In the elderly, debilitation, or ASI MIV patients, rapid bolls does should not be used as this will increase cardiorespiratory effects including hypotension, nea, airway obstruction, and/or oxygen desaturation.

Ministred Anesthesia Care (MAC), Sedation

Adult Patients:
When DIPRIVAN Injectable Emulsion is administered for MAC sedation, rates of administration should be individualized and titrated to clinical response. In most patients, the rates of DIPRIVAN Injectable Emulsion administration will be in the range of 25-75 µg/kg/min.

During initiation of MAC sedation, slow infusion or slow injection techniques are preferable over rapid bolus administration. During maintenance of MAC sedation, at the preferable over the properties of the proper

repeated) botus dose administration should not be used for MAC sedation. (See WARNINGS.) A rapid bolus injection can result in undesirable cardiores-piratory depression including hypotension, appra. a irray obstruction, and/or oxygen desaturation.

Initiation of MAC Sedation: For initiation of MAC sedation, either an infusion or a slow injection method may be utilized while closely monitoring cardiores-piratory function. With the infusion method, sedation may be initiated by initiating DIPRIVAM injectable Emulsion at 100 to 150 py Rygmin (6 to 9 mg/kg/h) for a period of 3 to 5 minutes and titrating to the desired clinical effect while closely monitoring respiratory function. With the six of t

Maintenance of MAC Sedation: For maintenance of sedation, a variable rate infusion method is preferable over an intermittent bolus dose method. With Maintenance ardable rate infusion method, patients will generally require maintenance rates of 25 to 75 µg/kg/min (1.5 to 45 µg/kg/m) during the first 10 to 15 minutes of sedation maintenance. Infusion rates should usbesquently be decreased over time to 25 to 50 µg/kg/min and adjusted to clinical responses. In titrating to

of sedation maintenance, influsion rates should subsequently be decreased over time to 2s to 50 µg/kg/min and adjusted to clinical refset, allow approximately 2 minutes for oneset of peak drug effect.

Influsion rates should always be titrated downward in the absence of clinical signs of light sedation until mild responses to stimulation are obtained in order to avoid sedative administration of DIPRIVAIN Injectable Emulsion at rates higher than are clinically necessary.

If the intermittent bolus dose method is used, increments of DIPRIVAIN Injectable Emulsion 10 mg (I mL) or 20 mg (2 mL) can be administered and titrated to desired clinical effect. With the intermittent bolus method of sedation maintenance, there is the potential for respiratory depression, transient increases in seattlend deaths. and office producerity or forecaster.

to desired chilical effect. With the limitation does meliand of section in maintained, neer is the potential for respiratory depression, fursible in increases in seatiation depth, and/or prolinogation of recovery.

In the elderly, debilitated, or ASA IIII/V patients, rapid (single or repeated) bolus dose administration should not be used for MAC sedation. (See WARNINGS). The rate of administration and the dosage of DIPRIVAN Injectable Emulsion should be reduced to approximately 80% of the usual adult dosage in these patients according to their condition, responses, and changes in vital signs. (See DISAGE AND ADMINISTRATION.)

DIPRIVAN Injectable Emulsion can be administered as the sole agent for maintenance of MAC sedation during surgical/diagnostic procedures. When DIPRIVAN injectable Emulsion sedation is supplemented with opioid and/or benzodiazepine medications, these agents increase the sedative and respiratory

UIPHIVAN Injectable Emulsion sedation is supplemented with opioid and/or penzionazepine medications, these agents increase the sedative and respiratory effects of DIPRIVAN Injectable Emulsion and may also result in a slower recovery profile. (See PERCAUTIONS, Drug Interactions). ICU Sedation: (See WARNINGS and DOSAGE AND ADMINISTRATION, Handling Procedures.)

Adult Patients: For intubated, mechanically ventilated adult patients, intensive Care Unit (ICU) sedation should be initiated slowly with a continuous infusion in order to titrate to desired clinical effect and minimize hypotension. (See DOSAGE AND ADMINISTRATION.)

Across all 6 US/Canadian clinical studies, the mean infusion maintenance rate for all DIPRIVAN Injectable Emulsion patients was 27 ± 21 µg/kg/min. The maintenance intrison rates required to maintain adequate sedation ranged from 28 µg/kg/min to 130 µg/kg/min. This into rate was lower in patients over 55 years of age (approximately 20 µg/kg/min) compared to patients under 55 years of age (approximately 38 µg/kg/min). In these studies, morphine or fentanyl vas used's a needer for randpresize.

Most adult ICU patients recovering from the effects of general anesthesia or deep sedation will require maintenance rates of 5 to 50 µg/kg/min (0.3 to 3 mg/kg/h) individualized and titrated to clinical response. (See DOSAGE AND ADMINISTRATION.) With medical ICU patients or patients who have recovered from the effects of general anesthesia or deep sedation, the rate of administration of 50 μg/kg/min or higher may be required to achieve adequate sedation. These higher rates of administration may increase the likelihood of patients developing hypotension.

Although there are reports of reduced analgesic requirements, most patients received opioids for analgesia during maintenance of ICU sedation. Some patients also neceived benzoliazepines and/or neuromuscular blocking apents. During long-term maintenance of sedation, some ICU patients were awakened once or twice every 24 hours for assessment of neurologic or respiratory function. (See Clinical Trials, Table 4.)

In post-CABG (coronary artery bypass graft) patients, the maintenance rate of proportion administration was usually low (median 11 µg/kg/min) due to the intraoperative administration of high opioid doses. Patients receiving DIPRIVAN Injectable Emulsion required 35% less nitroprusside than midazolam patients; this difference was statistically significant (P-0.05). During initiation of sedation in post-CABG patients, a 15% to 20% decrease in blood pressure was seen in the first 60 minutes. It was not possible to determine cardiovascular effects in patients with severely compromised ventricular function (See Clinical Trials,

In Medical or Postsurgical ICU studies comparing DIPRIVAN Injectable Emulsion to benzodiazepine infusion or bolus, there were no apparent differences in maintenance of adequate sedation, mean arterial pressure, or laboratory infindings. Like the comparators, DIPRIVAN injectable Emulsion reduced blood contisol during sedation white maintaining responsivity to challenges with adenocorticotropic hormone (ACTH). Case reports from the published illerature

cortisol during sedation while maintaining responsivity to challenges with aderencordicotropic hormone (ACTH). Case reports from the published ilterature generally reflect that DIPRIVAM injectable Emulsion has been used safely in patients with a history of porphyria or malignant with DIPRIVAM injectable Emulsion or morphine (N=7 in each group). There were no apparent differences in adequacy of sedation, intracranial pressure, cerebral perfusion pressure, or neurologic recovery between the treatment groups. In literature reports from Neurosurgical ICU and severely head-injured patients DIPRIVAM injectable Emulsion infusion with or without diuretics and hyperventilation controlled intracranial pressure while maintaining cerebral perfusion pressure. In some patients, bolus coses resulted in decreased blood pressure and compromised cerebral perfusion pressure. (See Clinical Trials, Table 4.)

DIPRIVAM Injectable Emulsion was found to be effective in status epilepticus which was refractory to the standard anticonvulsant therapies. For these patients as well as for ARDS/respiratory failure and teatines patients, sedation maintenance dosages were generally higher than those for other critically ill patient populations. (See Clinical Trials, Table 4.)

Abrupt discontinuation of DIPRIVAM injectable Emulsion prior to weaning or for daily evaluation of sedation levels should be avoided. This may result in rapid awakening with associated analyse.

rapid awakening with associated anxiety, agitation, and resistance to mechanical ventilation. Infusions of DIPRIVAN Injectable Emulsion should be adjusted to maintain a light level of sedation through the weaning process or evaluation of sedation level. (See PRECAUTIONS.)

INDICATIONS AND USAGE

INDICATIONS AND USAGE
DIPRIVAN Injectable Emulsion is an IV sedative-hypnotic agent that can be used for both induction and/or maintenance of anesthesia as part of a balanced anesthetic technique for inpactient and outpatient surgery in adult patients and pediatric patients greater than 3 years of age. DIPRIVAN injectable Emulsion can also be used for maintenance of anesthesia as part of a balanced anesthetic technique for inpatient and outpatient surgery in adult patients and in pediatric patients greater than 2 months of age. DIPRIVAN injectable Emulsion is not recommended for induction of anesthesia below the age of 3 years or for maintenance of anesthesia below the age of 2 months because its safety and effectiveness have not been established in those populations. In adult patients, DIPRIVAN injectable Emulsion, when administered intravenously as directed, can be used to initiate and maintain monitored anesthesia acare (MAC) sedation during diagnostic procedures. DIPRIVAN injectable Emulsion may also be used for MAC sedation in conjunction with local/regional anesthesia in patients undergoing surgical procedures. (See PRECAUTIONS.)

Safety, effectiveness and dosing guidelines for DIPRIVAN injectable Emulsion have not been established for MAC Sedation during diagnostic procedures. DIPRIVAN injectable Emulsion have not been established for MAC Sedation fully general anesthesia in the relative nounderfor underground inflaments or nonsymical procedures and therefore it is not recommended for this use. (See PRECAUTIONS.)

pediatric population undergoing diagnostic or nonsurgical procedures and therefore it is not recommended for this use. (See PRECAUTIONS, Pediatric Use). popular population interesting languagement or inclining languagement of the properties and interesting the properties of the properties o

Interior intradjentent or includary in placents and trainent or cardiovascular resuscitation and anyway management.

DIPRIVAN Injectable Emulsion is not indicated for use in Pediatric ICU sedation since the safety of this regimen has not been established. (See PRECAU-TIONS, Pediatric Use).

DIPRIVAN Injectable Emulsion is not recommended for obstetrics, including cesarean section deliveries. DIPRIVAN Injectable Emulsion crosses the placenta, and as with other general anesthetic agents, the administration of DIPRIVAN Injectable Emulsion may be associated with neonatal depression. (See

PHELAUTIONS.)
DIPRIVAN Injectable Emulsion is not recommended for use in nursing mothers because DIPRIVAN Injectable Emulsion has been reported to be excreted in human milk and the effects of oral absorption of small amounts of propofol are not known. (See PRECAUTIONS.)

CONTRAINDICATIONS

DIPRIVAN Injectable Emulsion is contraindicated in patients with a known hypersensitivity to DIPRIVAN Injectable Emulsion or its components, or when general anesthesia or sedation are contraindicated

WARKINIOS
For general anesthesia or monitored anesthesia care (MAC) sedation, DIPRIVAN Injectable Emulsion should be administered only by persons trained in the administration of general anesthesia and not involved in the conduct of the surgical/diagnostic procedure. Patients should be continuously monitored, and facilities for maintenance of a patent airway, artificial ventilation, and oxygen enrichment and circulatory resuscitation must be immedi-

For sedation of intubated, mechanically ventilated adult patients in the Intensive Care Unit (ICU), DIPRIVAN Injectable Emulsion should be admin-

For seatation of influsated, mechanically ventilated adult patients in the intensive Care Unit (LCU), UIPHIVMA Injectable Emulsion should be administered only by persons skilled in the management of critically Ill patients and trained in cardiovascular resusstitation alrawy management.

In the elderly, debilitated, or ASA III/V patients, rapid (single or repeated) bolus administration should not be used during general anesthesia or MAC sedation in order to minimize undesirable cardiorespiratory depression including hypotension, apnea, airway obstruction, and/or oxygen desaturation.

MAC sedation patients should be continuously monitored by persons not involved in the conduct of the surgical or diagnostic procedure; oxygen supplementation should be immediately available and provided where clinically indicated; and oxygen saturation should be monitored in all patients. Patients should be continuously monitored for early signs of thypotension, apnea, airway obstruction, and/or oxygen desaturation. These cardiorespiratory effects are more likely to occur following rapid initiation (loading) boluses or during supplemental maintenance boluses, especially in the elderly, debilitated, or ASA III/IV

DIPRIVAN Injectable Emulsion should not be coadministered through the same IV catheter with blood or plasma because compatibility has not been estabbir having injectable children should not be coddininisted introduit in same or cameter with blood of plasma because companion in the best state. It with a gargedate of the globular component of the emulsion vehicle have occurred with blood/plasma/serum from humans and animals. The clinical significance is not known.

STRICT ASEPTIC TECHNIQUE MUST ALWAYS BE MAINTAINED DURING HANDLING. DIPRIVAN INJECTABLE EMULSION IS A SINGLE-USE PARENTERAL STRICT ASSEPTIC TECHNIQUE MUST ALLWAYS BE MAINTAINED DURING HANDLING. DIPRIVAIN INJECTABLE EMULSION IS A SINGLE-USE PARENTERAL PRODUCT WHICH CONTAINS 0.065% DISDOUME DETATE TO RETARD THE RATE OF GROWTH OF MICROGRAMISMS IN THE EVENT OF ACCIDENTAL EXTRINSIC CONTAMINATION. HOWEVER, DIPRIVAN NUECTABLE EMULSION CAN STILL SUPPORT THE GROWTH OF MICROGRAMISMS AS IT IS NOT AN ANTIMICROBIALLY PRESERVED PRODUCT UNDER USP STANDARDS. ACCORDINGLY, STRICT ASSEPTIC TECHNIQUE MIST STILL BE ADHERED TO. DO NOT USE IF CONTAMINATION IS SUSPECTED. DISCARD UNUSED PORTIONS AS DIRECTED WITHIN THE REQUIRED TIME LIMITS (SEE DOSAGE AND ADMINISTRATION, HANDLING PROCEDURES). THERE HAVE BEEN REPORTS IN WHICH FAILURE TO USE ASSEPTIC TECHNIQUE WHEN HANDLING DIPRIVAN INJECTABLE EMULSION WAS ASSOCIATED WITH MICROBIAL CONTAMINATION OF THE PRODUCT AND WITH FEVER, INFECTION, SEPSIS, OTHER LIFE-THREATENING ILLNESS, AND/OR DEATH.

Adult and Pediatric Patients: A lower induction dose and a slower maintenance rate of administration should be used in elderly, debilitated, or ASA III/IV patients. (See CLINICAL PHARMACOLOGY - Individualization of Dosage.) Patients should be continuously monitored for early signs of significant hypotension and/or bradycardia. Treatment may include increasing the rate of intravenous fluid, elevation of lower extremities, use of pressor agents, or administration of atropine. Apnea often occurs during induction and may persist for more than 60 seconds. Ventilatory support may be required. Because DIPRIVAN Injectable Emulsion is an emulsion, caution should be exercised in patients with disorders of lipid metabolism such as primary hyperlipoproteinemia, diabetic hyper-

Emulsion is an emulsion, caution should be exercised in patients with disorders of lipid metabolism such as primary hyperipoproteinema, diabetic hyperipemia, and pancreatitis.

Very rarely the use of DIPRIVAN may be associated with the development of a period of postoperative unconsciousness which may be accompanied by an increase in muscle tone. This may or may not be preceded by a brief period of wakefulness. Recovery is spontaneous. The clinical criteria for discharge from the recovery/day surgery area established for each institution should be satisfied before discharge of the patient from the care of the anesthesiologist. When DIPRIVAN injectable Emulsion is administrated to an epileptic patient, there may be a risk of secture during the receivery phase.

Attention should be paid to minimize pain on administration of DIPRIVAN injectable Emulsion. Transient local pain can be minimized the larger veins of the forearm or arbeitshif losses are used? Paid quirtuin intravenus inscienton may acke be reduced but prior instention of IVI directions (1 mil of 3 4 5 solution).

the forearm or antecubital fossa are used. Pain during intravenous injection may also be reduced by prior injection of IV lidocaine (1 mL of a 1% solution). Pain on injection occurred frequently in pediatric patients (45%) when a small vein of the hand was utilized without lidocaine pretreatment. With lidocaine pretreatment or when antecubital veins were utilized, pain was minimal (incidence less than 10%) and well-tolerated

Venous sequelae (phlebitis or thrombosis) have been reported rarely (<1%). In two well-controlled clinical studies using dedicated intravenous catheters

no instances of venous sequelae were observed up to 14 days following induction.

Intra-arterial injection in animals did not induce local tissue effects. Accidental intra-arterial injection has been reported in patients, and, other than pain,

interactival injection in animas our not induce notal issue electis. Accidental interactival injection has been reported in patients, and, one than pain, it were no major sequelate.

Intentional injection into subcutaneous or perivascular tissues of animals caused minimal tissue reaction. During the post-marketing period, there have in are reports of local pain, swelling, blisters, and/or tissue necrosis following accidental extravasation of DIPRIVAN Injectable Emulsion.

Perioperative mycolonia, rarely including convulsions and opisthotonos, has occurred in temporal relationship in cases in which DIPRIVAN Injectable.

Emission has been administered.

Clinical features of anaphylaxis, which may include angioedema, bronchospasm, erythema, and hypotension, occur rarely following DIPRIVAN Injectable

There have been rare reports of pulmonary edema in temporal relationship to the administration of DIPRIVAN Injectable Emulsion, although a causal

relationship is unknown.

relationship is unknown.

Very rarely, cases of unexplained postoperative pancreatitis (requiring hospital admission) have been reported after anesthesia in which DIPRIVAN Injectable Emulsion was one of the induction agents used. Due to a variety of confounding factors in these cases, including concomitant medications, a causal relationship to DIPRIVAN Injectable Emulsion is unclear.

DIPRIVAN Injectable Emulsion has no vagolytic activity. Reports of bradycardia, asystole, and rarely, cardiac arrest have been associated with DIPRIVAN Injectable Emulsion. Pediatric patients are susceptible to this effect, particularly when fentanyl is given concomitantly. The intravenous administration of anticholinergic agents (e.g., atropine or glycopyrrolate) should be considered to modify potential increases in vagal tone due to concomitant agents (e.g., succinvictorine) or suricial stimulty.

Intensive Care Unit Sedation

intensive Care Unit Sectation

Adult Patients (See WARNINGS and DOSAGE AND ADMINISTRATION, Handling Procedures.) The administration of DIPRIVAN Injectable Emulsion should be initiated as a continuous infusion and changes in the rate of administration made slowly (55 min) in order to minimize hypotension and avoid acute overdosage. (See CLINICAL PHARMACOLOGY - Individualization of Dosage.)

Patients should be monitored for early signs of significant hypotension and/or cardiovascular depression, which may be profound. These effects are responsive to discontinuation of DIPRIVAN Injectable Emulsion. IV fluid administration, and/or vasooressor therapy. ponsive to discontinuation of DIPRIVAN Injectable Emulsion, IV fluid administration, and/or vasporessor therapy.

As with other sedative medications, there is wide interpatient variability in DIPRIVAN Injectable Emulsion dosage requirements, and these requirements or channe with limit

As with other sedative medications, there is wide interpatient variability in DIPRIVAN Injectable Emulsion dosage requirements, and these requirements may change with time.

Failure to reduce the infusion rate in patients receiving DIPRIVAN Injectable Emulsion for extended periods may result in excessively high blood concentrations of the drug. Thus, titration to clinical response and daily evaluation of sedation levels are important during use of DIPRIVAN Injectable Emulsion intuision for ICU sedation, especially of long duration.

Opinids and paralytic agents should be discontinued and responsy function optimized prior to wearing patients from mechanical ventilation. Infusions of ICU pounds in the paralytic patients from mechanical ventilation. Infusions of ICU patients in the patients of the patients

of DIPRIVAN Injectable Emulsion should be adjusted to maintain a light level of sedation prior to wearing patients from mechanical ventilatory support. Throughout the wearing process, this level of sedation may be maintained in the absence of respiratory depression. Because of the rapid clearance of DIPRIVAN Injectable Emulsion, abrupt discontinuation of a patients infusion may result in rapid watering of the patient with associated anxiety, agitation, and resistance to mechanical ventilation, making weaning from mechanical ventilation difficult. It is therefore recommended that administration of DIPRIVAN Injectable Emulsion be continued in order to maintain a light level of sedation throughout the weaning process until 10-15 minutes prior to extubation, at which time the infusion can be discontinued

which time the infusion can be discontinued.

Very rare reports of metabolic acidosis, rhabdomyoysis, hyperklalemia, and/or cardiac failure, in some cases with a fatal outcome, have been received concerning seriously ill patients receiving DIPRIVAN for ICU sedation. These reports demonstrated that a failure of oxygen delivery to the tissues was likely to have occurred. A causal relationship between these reported events and DIPRIVAN has not been established. All sedationship between these reported events and DIPRIVAN has not been established. All sedationship to the total the ICU (including DIPRIVAN) should be titrated to maintain optimal oxygen delivery and hemodynamic parameters.

Since DIPRIVAN injectable Emulsion is formulated in an oli-in-vater emulsion, elevations in serum triglycerides no occur when DIPRIVAN injectable Emulsion is administered for extended periods of time. Patients at risk of hyperlipidemia should be monitored for increases in serum triglycerides or serum

turbidity. Administration of DIPRIVAN Injectable Emulsion should be adjusted if fat is being inadequately cleared from the body. A reduction in the quantity of concurrently administered lipids is indicated to compensate for the amount of lipid infused as part of the DIPRIVAN Injectable Emulsion formulation; 1 mL of DIPRIVAN Injectable Emulsion contains approximately 0.1 g of fat (1.1 kcal).

EDTA is a strong chelator of trace metals -- including zinc. Although with DIPRIVAN Injectable Emulsion there are no reports of decreased zinc levels or zinc deficiency-related adverse events, DIPRIVAN Injectable Emulsion should not be infused for longer than 5 days without providing a drug holiday to safely replace estimated or measured urine zinc losses

estimated or measured urine zinc losses. In clinical trisk mean urinary zinc loss was approximately 2.5 to 3.0 mg/day in adult patients and 1.5 to 2.0 mg/day in pediatric patients. In patients who are predisposed to zinc deficiency, such as those with burns, diarrhea, and/or major sepsis, the need for supplemental zinc should be considered during prolinged therapy with DIPRIVAN injectable Emulsion.

At high dosse (2-3 grams per day), EDTA has been reported, on rare occasions, to be toxic to the renal tubules. Studies to-date, in patients with normal or imparted renal function have not shown any attention in renal function with DIPRIVAN injectable Emulsion containing 0.05% disodium edetate. In patients at risk for renal impairment, urinalysis and urine sediment should be checked before initiation of sedation and then be monitored on alternate days during setation.

nation. The long-term administration of DIPRIVAN Injectable Emulsion to patients with renal failure and/or hepatic insufficiency has not been evaluated

Neurosurgical Anesthesia: When DIPRIVAM injectable Emulsion is used in patients with increased intracracial pressure or impaired cerebral circulation, significant decreases in mean arterial pressure should be avoided because of the resultant decreases in cerebral perfusion pressure. To avoid significant hypotension and decreases in cerebral perfusion pressure, an infusion or slow bolus of approximately 20 mg every 10 seconds should be utilized instead of rapid, more frequent, and/or larger boluses of DIPRIVAN injectable Emulsion. Slower induction distance to clinical responses, will generally result in reduced induction dosage requirements (1 to 2 mykg), When increased ICP is suspected, hyperventilation and hypocarbia should accompany the administration of DIPRIVAN injectable Emulsion. (See DOSAGE AND ADMINISTRATION.)

Cardiac Anesthesia: Slower rates of administration should be utilized in premedicated patients, geriatric patients, patients with recent fluid shifts, or patients who are hemodynamically unstable. Any fluid deficits should be corrected prior to administration of DIPRIVAN injectable Emulsion. In those patients where additional fluid therary may be contraindicated, other measures, e.g. elevation of lower externities, or use of pressor agents, may be useful to offset the hypotension which is associated with the induction of anesthesia with DIPRIVAN injectable Emulsion.

Information for Patients: Patients should be advised that performance of activities requiring mental alertness, such as operating a motor vehicle, or hearrous machinery or signing legal documents may be impaired for some time after general anesthesia or sedation.

Drug Interactions: The induction dose requirements of DIPRIVAN injectable Emulsion may be reduced in gatents with intramuscular or intravenous permedication, patients with intramuscular or intravenous permedications of positions and sedatives (e.g. berozodiazepines, Neurosurgical Anesthesia: When DIPRIVAN Injectable Emulsion is used in patients with increased intracranial pressure or impaired cerebral circulation.

Drug Interactions: The induction dose requirements of DIPRIVAN injectable Emulsion may be reduced in patients with intramuscular or intravenous premedication, particularly with narcotics (e.g., morphine, meperidine, and fentanyl, etc.) and combinations of opioids and sedatives (e.g., berzodiazepines, barbiturates, chioral hydrate, droperdide, let.) These agents may increase the anesthetic or sedative fetects of DIPRIVAN injectable Emulsion and may also result in more pronounced decreases in systolic, diastolic, and mean arterial pressures and cardiac output.

During maintenance of anesthesia or sedation, the trate of DIPRIVAN injectable Emulsion administration should be adjusted according to the desired level of anesthesia or sedation and may be reduced in the presence of supplemental analgesic agents (e.g., nitrous oxide or opioids). The concurrent administration of potent inhabitional agents (e.g., soflurane, enflurane, and halothane) during maintenance with DIPRIVAN injectable Emulsion has not been extensively evaluated. These inhabitational agents can also be expected to increase the anesthetic or sedative and cardiorespiratory effects of DIPRIVAN injectable Emulsion.

DIPRIVAN ligiertable Emulsion.

nulsion.

DIPRIVAN Injectable Emulsion does not cause a clinically significant change in onset, intensity or duration of action of the commonly used neuromus-

DIFFIVAN injectable Priluston does not cable a climically significant citating in offset, intensity of duration of action on the commining used ineutronics cular blocking agents (e.g., succinylcholine and nondepolarizing muscle relaxants). No significant adverse interactions with commonly used premedications or drugs used during anesthesia or sedation (including a range of muscle relaxants). No adjustional agents, analgesic agents, and local anesthetic agents) have been observed in adults. In pediatric patients, administration of fentanyl concomitantly with DIPRIVAN Injectable Emulsion may result in serious bradycardia.

Carcinogenesis, Mutagenesis, Impairment of Perfility: Animal carcinogenicity studies have not been performed with propofol. In vitro and in vivo animal tests failed to show any potential for mutagenicity by propofol. Tests for mutagenicity included the Ames (using Salmonella sp) mutation test, gene mutation/gene conversion using Saccharomyces cerevisiae, in vitro cytogenetic studies in Chinese hamsters and a mouse micronucleus test.

cleus test.

Studies in female rats at intravenous doses up to 15 mg/kg/day (approximately equivalent to the recommended human induction dose on a mg/m² basis) for 2 weeks before pregnancy to day 7 of gestation did not show impaired fertility. Male fertility in rats was not affected in a dominant lethal study at intravenous doses up to 15 mg/kg/day (of 5 days.

Pregnancy Category B: Reproduction studies have been performed in rats and rabbits at intravenous doses of 15 mg/kg/day (approximately equivalent

to the recommended human induction dose on a mg/m² basis) and have revealed no evidence of impaired fertility or harm to the fetus due to propotol. Propotol, however, has been shown to cause maternal deaths in rats and rabbits and decreased pup survival during the lactating period in dams treated with 51 mg/kg/day (approximately equivalent to the recommended human induction dose on a mg/m² basis). The pharmacological activity (anesthess) of the drug on the mother is probably responsible for the adverse effects seen in the offspring. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human responses, this drug should be used during pregnancy only if clearly

Labor and Delivery: DIPRIVAN Injectable Emulsion is not recommended for obstetrics, including cesarean section deliveries. DIPRIVAN Injectable nulsion crosses the placenta, and as with other general anesthetic agents, the administration of DIPRIVAN Injectable Emulsion may be associated with Emulsion crosses the placenta, and as with other general anesthetic agents, the administration of DIPRIVAN Injectable Emulsion may be associated with neonatal depression.

Nursing Mothers: DIPRIVAN Injectable Emulsion is not recommended for use in nursing mothers because DIPRIVAN Injectable Emulsion has been reported to be excreted in human milk and the effects of oral absorption of small amounts of propofol are not known.

Pediatric Use: The safety and effectiveness of DIPRIVAN Injectable Emulsion have been established for induction of anesthesia in pediatric patients aged 3 years and older and for the maintenance of anesthesia aged? months and older.

DIPRIVAN Injectable Emulsion is not recommended for the induction of anesthesia in patients younger than 3 years of age and for the maintenance of nesthesia in productive productions are steady and detectivenes have and been established.

anesthesia in patients younger than 2 months of age as safety and effectiveness have not been established

In pediatric patients, administration of fentanyl concomitantly with DIPRIVAN Injectable Emulsion may result in serious bradycardia (see PRECAUTIONS

DIPRIVAN Injectable Emulsion is not indicated for use in pediatric patients for ICU sedation or for MAC sedation for surgical, nonsurgical or diagnostic

DIPRIVANI Injectable Emulsion is not indicated for use in pediatric patients for ICU sedation or for MAC sedation for surgical, nonsurgical or diagnostic procedures as safely and effectiveness have not been established.

There have been anecototal reports of serious adverse events and death in pediatric patients with upper respiratory tract infections receiving DIPRIVAN injectable Emulsion for ICU sedation. In one multicenter clinical trial of ICU sedation in critically III pediatric patients that excluded patients with upper respiratory tract infections, the incidence of mortality observed in patients who received DIPRIVAN injectable Emulsion (in-222) was 9%, while that for patients who received standard sedative agents (in-160) was 4%. While causality has not been established, DIPRIVAN injectable Emulsion is not indicated for sedation glidatire gateints until further studies have been performed to document its safety in that population. (See CLINICAL PHARMACOLOGY - Pediatric Patients: and Dosage and Administration.)

In pediatric patients, abrupt discontinuation following prolonged infusion may result in flushing of the hands and feet, agitation, tremulousness and hyper-

In pediatric patients, abrupt discontinuation following prolonged infusion may result in flushing of the hands and feet, agitation, tremulousness and hyper-intability, Increased incidences of bradycardia (5%), agitation (4%), and itheriness (9%) have also been observed.

Gerählte Use: The effect of age on induction dose requirements for propofol was assessed in an open study involving 211 unpremedicated patients with approximately 30 patients in each decade between the ages of 16 and 80. The average dose to induce anesthesia was calculated for patients up to 54 years of age was 1.99 mg/kg and in patients above 54 ft was 1.66 mg/kg. Subsequent clinical studies have demonstrated lower dosing requirements for subjects greater than 60 years of age.

A lower induction dose and a slower maintenance rate of administration of DIPRIVAM injectable Emulsion should be used in deterly patients. In this group of patients, rapid (single or repeated) bolus administration should not be used in order to minimize undesirable cardiorespiratory depression including hypotension, apane, airway obstruction, and/or oxygen desaturation. All dosing should be titrated according to patient condition and response. (See DOSAGE AND ADMINISTRATION - Elderty, debilitated, or ASA III/IV patients and CLINICAL PHARMACOLOGY - Geriatrics.)

General

Adverse event information is derived from controlled clinical trials and worldwide marketing experience. In the description below, rates of the more common events represent US/Canadian clinical study results. Less frequent events are also derived from publications and marketing experience in over 8 million patients; there are insufficient data to support an accurate estimate of their incidence rates. These studies were conducted using a variety of premedicants, varying lengths of surgical/diagnostic procedures, and various other anesthetic/sedative agents. Most adverse events were mild and transient. Anesthesia and MAC Sedation in Adults

Anesthesia and MAC Sedation in Adults
The following estimates of adverse events for DIPRIVAN Injectable Emulsion include data from clinical trials in general anesthesia/MAC sedation (N-2889 adult
patients). The adverse events listed below as probably causally related are those events in which the actual incidence rate in patients treated with DIPRIVAN
injectable Emulsion was greater than the comparator incidence rate in these trials. Therefore, incidence rate in sets for anesthesia and MAC sedation in adults generally
represent estimates of the percentage of clinical trial patients which appeared to have probable causal relationship.
The adverse experience profile from reports of 150 patients in the MAC sedation clinical trials is similar to the profile established with DIPRIVAN Injectable
Emulsion during anesthesia (see below). During MAC sedation clinical trials, significant respiratory events included cough, upper airway obstruction, apnea,
hoveperfaillering and descense.

Anestness in Pediatric Patients
Generally the adverse experience profile from reports of 506 DIPRIVAN Injectable Emulsion pediatric patients from 6 days through 16 years of age in the
US/Canadian anesthesia clinical trials is similar to the profile established with DIPRIVAN Injectable Emulsion during anesthesia in adults (see Pediatric
percentages [Peds %] below). Although not reported as an adverse event in clinical trials, apnea is frequently observed in pediatric patients.

ICU Sedation In Adults

ADVERSE REACTIONS

The following estimates of adverse events include data from clinical trials in ICU sedation (N=159 adult patients). Probably related incidence rates for ICU sedation were determined by individual case report form review. Probable causality was based upon an apparent dose responses relationship and/or positive responses to rechallenge. In many instances the presence of concomitant disease and concomitant therapy made the causar relationship unknown. Therefore, incidence rates for ICU sedation generally represent estimates of the percentage of clinical trial patients which appeared to have a probable causal relationship.

Incidence greater than 1% - Probably Causally Related

Anesthesia/MAC Sedation ICU Sedation Cardiovascular: Bradycardia Bradvcardia Arrhythmia [Peds: 1.2%] Tachycardia Nodal [Peds: 1.6%] Hypotension* [Peds: 17%] Decreased Cardiac Output (see also CLINICAL PHARMACOLOGY)
[Hypertension Peds: 8%] Hypotension 26% Movement* [Peds: 17%] Central Nervous System

Burning/Stinging or Pain, 17.6% [Peds: 10%]

Rash [Peds: 5%]

Metabolic/Nutritional Hyperlipemia³ Respiratory: Respiratory Acidosis During Weaning* Apnea (see also CLINICAL PHARMACOLOGY)

Pruritus [Peds: 2%] Events without an * or % had an incidence of 1%-3%

Incidence of events 3% to 10%

Skin and Appendages

Incidence less than 1% - Probably Causally Related

ICU Sedation

Tachycardia

Rash

Body as a Whole: Anaphylaxis/Anaphylactoid Reaction, Perinatal Disorder [Tachycardia], [Bigeminy], [Bradycardia] [Premature Ventricular Contractions], [Hemorrhage] [ECG Abnormal], [Arrhythmia Atrial], [Fever], [Extremities Pain], [Anticholinergic Syndrome]

Anesthesia/MAC Sedation

Premature Atrial Contractions, Syncope Hypertonia/Dystonia, Paresthesia Central Nervous System

Digestive: [Hypersalivation], [Nausea] Hemic/Lymnhatic [] eukocytosis] [Phlebitis], [Pruritus] Injection Site: Metabolic: [Hypomagnesemia] Musculoskeletal Myalgia

[Dizziness], [Agitation], [Chills], [Somnolence], Nervous:

[Delirium] Wheezing, [Cough], Respiratory

Decreased Lung Function [Laryngospasm], [Hypoxia]

Skin and Appendages: Flushing, Pruritus Special Senses: Amblyopia [Vision Abnormal]

Urogenital: Cloudy Urine Green Urine

Incidence less than 1% - Causal Relationship Unknown

Anesthesia/MAC Sedation ICU Sedation Asthenia, Awareness, Chest Pain Extremities Pain, Fever, Increased Drug Effect, Neck Rigidity/Stiffness, Trunk Pain Body as a Whole: Fever, Sepsis, Trunk Pain, Whole Body Weakness

Arrhythmia, Atrial Fibrillation, Bigeminy, Cardiac Arrest, Arrhythmia, Atrial Fibrillation Atrioventricular Heart Block, Bigeminy, Bleeding, Bundle Extrasystole, Right Heart Failure, Ventricular Branch Block, Cardiac Arrest, ECG Abnormal, Edema,

Extrasystole, Heart Block Hypertension, Myocardial Infarction, Myocardial Ischemia, Premature Ventricular Contractions, ST Segment
Depression, Supraventricular
Tachycardia, Tachycardia,
Ventricular Tibrillation Ventricular Fibrillation

Abnormal Dreams, Agitation, Amorous Behavior, Anxiety, Bucking/Jerking/Thrashing, Chills/Shivering, Intracranial Hypertension, Seizures, Somnolence, Central Nervous System Thinking Abnormal

Chills/Shivering, Clonic/ Myoclonic Movement, Combativeness, Confusion, Delirium, Depression, Dizziness, Emotional Lability, Euphoria. Fatigue, Hallucinations, Headach Hypotonia, Hysteria, Insomnia, Moaning, Neuropathy, Opisthotonos, Rigidity, Seizures, Somnolence, Tremor, Twitching

Cramping, Diarrhea, Dry Mouth, Enlarged Parotid, Nausea, Swallowing, Vomiting lleus, Liver Function Abnormal Digestive

Coagulation Disorder, Leukocytosis Hematologic/Lymphatic: Injection Site: Hives/Itching, Phlebitis, Redness/Discoloration

Metabolic/ Nutritional: Hyperkalemia, Hyperlipemia

BUN Increased, Creatinine Increased, Dehydration, Hyperglycemia, Metabolic Acidosis, Osmolality Increased

Bronchospasm, Burning in Throat, Cough, Dyspnea, Hiccough, Hyperventilation, Hypoxia

Hypoventilation, Hypoxia, Laryngospasm, Pharyngitis, Sneezing, Tachypnea, Upper Airway Obstruction Conjunctival Hyperemia, Diaphoresis, Urticaria

Skin and Appendages: Special Senses Diplopia, Ear Pain, Eye Pain, Nystagmus, Taste

Perversion.Tinnitus

Oliguria, Urine Retention Kidney Failure Urogenital:

DRUG ABUSE AND DEPENDENCE

Rare cases of self-administration of DIPRIVAN Injectable Emulsion by health care professionals have been reported, including some fatalities. DIPRIVAN Injectable Emulsion should be managed to prevent the risk of diversion, including restriction of access and accounting procedures as appropriate to the clinical setting

OVERDOSAGE

Respiratory

If overdosage occurs, DIPRIVAN Injectable Emulsion administration should be discontinued immediately. Overdosage is likely to cause cardiorespiratory depression. Respiratory depression should be treated by artificial ventilation with oxygen. Cardiovascular depression may require repositioning of the patient by raising the patient's legs, increasing the flow rate of intravenous fluids, and administering pressor agents and/or anticholinergic agents.

DOSAGE AND ADMINISTRATION

Dosage and rate of administration should be individualized and titrated to the desired effect, according to clinically relevant factors including preinduction

Dosage and rate of administration indumed the invalvative and unlead or the desired, according to clinically relevant ractors including periodician and concomitant medications, age, ASA physical classification, and level of debilitation of the patient.

The following is abbreviated dosage and administration information which is only intended as a general guide in the use of DIPRIVAN Injectable Emulsion. Prior to administering DIPRIVAN Injectable Emulsion, it is imperative that the physician review and be completely familiar with the specific dosage and administration information detailed in the CLINICAL PHARMACOLOGY - Individualization of Dosage section.

In the elderly, debilitated, or ASA Ill/IV patients, rapid bolus doses should not be the method of administration. (See WARNINGS.)

Intensive Care Unit Sedation:
Intensive Care Unit Sedation:
STRICT ASEPTIC TECHNIQUE MUST ALWAYS BE MAINTAINED DURING HANDLING. DIPRIVAN INJECTABLE EMULSION IS A SINGLE-USE PARENTERAL
EXTRINSIC CONTAININATION. HOWEVER, DIPRIVAN INJECTABLE EMULSION CAN STILL SUPPORT THE GROWTH OF MICROORGANISMS IN THE EVENT OF ACCIDENTAL
EXTRINSIC CONTAININATION. HOWEVER, DIPRIVAN INJECTABLE EMULSION CAN STILL SUPPORT THE GROWTH OF MICROORGANISMS AS IT IS NOT
AN ANTIMICROBIALLY PRESERVED PRODUCT UNDER USP STANDARDS. ACCORDINGLY, STRICT ASEPTIC TECHNIQUE MUST STILL BE ADHERED TO. DO
NOT USE IF CONTAININATION IS SUSPECTED. (See DOSAGE AND ADMINISTRATION). Handling Procedures.)
DIPRIVAN Injectable Emulsion should be individualized according to the patient's condition and response, blood lipid profile, and vital signs, (See PRECAUTORS. LCI SCREEDES Exclusive due decentrosity.

DIPRIVAN Injectable Emulsion should be individualized according to the patient's condition and response, blood lipid profile, and vital signs. (See PRECAL)
TOMS - (CU Sedation,) For intubated, mechanically ventilated adult patients, intensive Care Unit (ICU) sedation should be initiated slowly with a continuous
infusion in order to bitrate to desired clinical effect and minimize hypotension. When indicated, initiation of sedation should begin at 5 jg/kg/min
(0.3 mg/kg/h). The infusion rate should be increased by increments of 5 to 10 jg/kg/min (0.3 to 0.6 mg/kg/h) undivided or Sented to Pack drug effect. Most adult patients require maintenance rates of 5
to 50 jg/kg/min (0.3 to 3 mg/kg/h) or higher. Dosages of DIPRIVAN Injectable Emulsion should be reduced in patients who have received large dosages of
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TEALUATION OF LEVEL OF SEDATION AND ASSESSEMENT OF CARS FUNCTION SHOULD BE CARRIED OUT DAILY THROUGHOUT MAINTENANCE TO
DETERMINE THE MINIMUM DOSE OF DIPRIVAN INJECTABLE EMULSION REQUIRED FOR SEDATION (SEE CLINICAL TRIALS, ICU SEDATION). Solus
administration of 10 or 20 mg should only be used to rapidly increase depth of sedation in patients where hypotension is not likely to occur. Patients with
compromised mycocardial function, intravascular volume depletion, or abnormally low ascular compromised myocardial function, intravascular volume depletion, or abnormally low vascular tone (e.g., sepsis) may be more susceptible to hypotension. (See PRECAUTIONS.)

(See PRECAULIONS.) EDTA is a strong chelator of trace metals — including zinc. Although with DIPRIVAN injectable Emulsion there are no reports of decreased zinc levels or zinc deficiency-related adverse events, DIPRIVAN injectable Emulsion should not be infused for longer than 5 days without providing a drug holiday to safely replace estimated or measured urine zinc losses.

At high dosse (2-3 grams per day), EDTA has been reported, on rare occasions, to be toxic to the renal tubules. Studies to-date, in patients with normal or impariate renal function have not shown any alteration in renal function with DIPRIVAN injectable Emulsion containing 0.005% disoidium edetate. In patients at risk for renal impairment, urinalysis and urine sediment should be checked before initiation of sedation and then be monitored on alternate days during selfation.

SUMMARY OF DOSAGE GUIDELINES -

Somment or Double-Collectures.

Dosages and rates of administration in the following table should be individualized and titrated to clinical response. Safety and dosing requirements for induction of anesthesia in pediatric patients have only been established for children 3 years of age or older. Safety and dosing requirements for the maintenance of anesthesia have only been established for children 2 months of age and older. For complete dosage information, see CLINICAL PHARMACOLOGY - Individualization of Dosage.

muvidualization of booage.	
INDICATION	DOSAGE AND ADMINISTRATION
Induction of General Anesthesia	Healthy Adults Less Than 55 Years of Age: 40 mg every 10 seconds until induction onset (2 to 2.5 mg/kg). Elderly, Debilitated, or ASA III/NV Patients: 20 mg every 10 seconds until induction onset (1 to 1.5 mg/kg). Cardiac Anesthesia: 20 mg every 10 seconds until induction onset (6 to 1.5 mg/kg). Neurosumpical Patients: 20 mg every 10 seconds until induction onset (1 to 2 mg/kg) Pediatric Patients - healthy, from 3 years to 16 years of age: 2.5 to 3.5 mg/kg administered over 20-30 seconds. (See PRECAUTIONS - Pediatric Use: and CLINICAL PHARMACOLOGY - Pediatric patients)
Maintenance of General Anesthesia:	Infusion Healthy Adults Less Than 55 Years of Age: 100 to 200 µg/kg/min (6 to 12 mg/kg/h). Elderly, Debilitated, ASA Ill/IV Patients: 50 to 100 µg/kg/min (3 to 6 mg/kg/h). Cardiac Anesthesia: Most patients require: Primary DIPRIVAN Injectable Emulsion with Secondary Opioid - 100 - 150 µg/kg/min Low-dose DIPRIVAN Injectable Emulsion with Primary Opioid - 50 - 100 µg/kg/min (Sec CLINICAL PHARMACOLOGY, Table 5) Neurosurgical Patients: 100 to 200 µg/kg/min (6 to 12 mg/kg/h). Pediatric Patients: healthy, from 2 montts of age to 16 years of age: 125 to 300 µg/kg/min (7.5 to 18 mg/kg/h)
	Following the first half hour of maintenance, if clinical signs of light anesthesia are not present, the infusion rate should be decreased. (See PRECAUTIONS - Pediatric Use: and CLINICAL PHARMACOLOGY - Pediatric patients)
Maintenance of General Anesthesia:	Intermittent Bolus Healthy Adults Less Than 55 Years of Age: Increments of 20 to 50 mg as needed.
Initiation of MAC Sedation	Healthy Adults Less Than 55 Years of Age: Slow infusion or slow injection techniques are recommended to avoid apnea or hypotension. Most patients require an infusion of 100 to 150 µg/kg/min (6 to 9 mg/kg/h) for 3 to 5 minutes or a slow injection of 0.5 mg/kg over 3 to 5 minutes followed immediately by a maintenance infusion. Elderly, Deblitated, Neurosurgical, or ASA III/IV Patients: Most patients require dosages similar to healthy adults. Rapid boluses are to be avoided. (See WARNINISS.)
Maintenance of MAC Sedation	Healthy Adults Less Than 55 Years of Age: A variable rate influsion technique is preferable over an intermittent bolus technique. Most patients require an influsion of 25 to 75 µp/kg/min (1.5 to 4.5 mp/kg/m) or incremental bolus doses of 10 mg or 20 mg. In Elderly, Debilitated, Neurosurgical, or ASA III/N Patients: Most patients require 80% of the usual adult dose. A rapid (single or repeated) bolus dose should not be used. (See WARNINGS.)

Initiation and Maintenance of ICU Sedation in Inhibated, Mechanically Ventilated

Adult Patients - Because of the residual effects of previous anesthetic or sedative agents, in most patients the initial infusion should be 5 μ/kg/min (0.3 mg/kg/h) for at least 5 minutes. Subsequent increments of 5 to 10 μ/kg/min (0.3 to 0.6 mg/kg/h) over 5 to 10 minutes may be useful deffect is achieved. Maintenance rates of 5 to 50 μg/kg/min (0.3 to 3 mg/kg/h) or higher may be required.

Evaluation of clinical effect and assessment of CNS function should be carried out daily throughout maintenance to determine the minimum dose of DIPRIVAN Injectable Emulsion required for sedation.

The tubing and any unused portions of DIPRIVAN Injectable Emulsion should be discarded after 12 hours because DIPRIVAN Injectable Emulsion contains no preservatives and is capable of supporting growth of microorganisms. (See WARNINGS, and DOSAGE AND ADMINISTRATION.)

Compatibility and Stability: DIPRIVAN Injectable Emulsion should not be mixed with other therapeutic agents prior to administration Compatibility and Sabatility: DIFHINANI injectable Emulsion should not be mixed with other therapeutic agents prior to administration.

DIFLIGHT injectable Emulsion is provided as a ready to use formulation. However, bould diflution be necessary, it should only be diluted with 5% Dextrose Injection, USP, and it should not be diluted to a concentration less than 2 mg/mL because it is an emulsion. In diluted form it has been shown to be more stable when in contact with glass than with plastic (93% optency after 2 hours of running influsion in plastic). Administration with Other Fluids: Compatibility of DIPRIVAN Injectable Emulsion with the coadministration of blood/serrun/plasma has not been established. (See WARNINGS.) When administered using a y-type influsion set, DIPRIVAN Injectable Emulsion has been shown to be compatible with the following interacence fluids.

intravenous fluids.

- 5% Dextrose Injection, USP
- Lactated Ringers Injection, USP
- Lactated Ringers and 5% Dextrose Injection
- 5% Dextrose and 0.45% Sodium Chloride Injection, USP - 5% Dextrose and 0.2% Sodium Chloride Injection, USP

Handling Procedures

General

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container

permit.

Clinical experience with the use of in-line filters and DIPRIVAN Injectable Emulsion during anesthesia or ICU/MAC sedation is limited. DIPRIVAN Injectable Emulsion should only be administered through a filter with a pore size of 5 µm or greater unless it has been demonstrated that the filter does not restrict the flow of DIPRIVAN linjectable Emulsion and/or custe the breakdown of the emulsion. Hilters should be used with caution and where clinically appropriate. Continuous monitoring is necessary due to the potential for restricted flow and/or breakdown of the emulsion.

Do not use if there is evidence of separation of the phases of the emulsion.

Rare cases of self-administration of DIPRIVAN Injectable Emulsion by health care professionals have been reported, including some fatalities (See DRUG ABIES AND INSECTION DEFINIONE).

ABUSE AND DEPENDENCE:
STRICT ASEPTIC TECHNIQUE MUST ALWAYS BE MAINTAINED DURING HANDLING. DIPRIVAN INJECTABLE EMULSION IS A SINGLE-USE PARENTERAL PRODUCT WHICH CONTAINS 0.005% DISDOIUM EDETATE TO RETARD THE RATE OF GROWTH OF MICROORGANISMS IN THE EVENT OF ACCIDENTAL EXTRINSIC CONTAMINATION. HOWEVER, DIPRIVAN INJECTABLE EMULSION CAN STILL SUPPORT THE GROWTH OF MICROORGANISMS AS ITS AND ANAITIMICROBIALLY PRESENTED PRODUCT UNDER USE TSTANDARDS. ACCORDINGLY, STRICT ASEPTIC TECHNIQUE MUST STILL BE ADMENDED TO. DO NOT USE IF CONTAMINATION IS SUSPECTED. DISCARD UNUSED PORTIONS AS DIRECTED WITHIN THE REQUIRED TIME LIMITS (SEE DOSAGE AND ADMINISTRATION, HADLING PROCEDURES). THERE HAVE BEEN REPORTS IN WHICH FAILURE TO USE ASEPTIC TECHNIQUE WHEN HANDLING PRIVATE AND PRIVATE AND ADMINISTRATION, HADLING PROCEDURES). THERE HAVE BEEN REPORTS IN WHICH FAILURE TO USE ASEPTIC TECHNIQUE WHEN HANDLING DIPRIVAN INJECTABLE EMULSION WAS ASSOCIATED WITH MICROBIAL CONTAMINATION OF THE PRODUCT AND WITH FEVER, INFECTION, SEPSIS, OTHER LIFE-THREATENING ILLNESS, AND/OR DEATH.

Guidelines for Aseptic Technique for General Anesthesia/MAC Sedation
DIPRIVAN Injectable Emulsion should be prepared for use just prior to initiation of each individual anesthetic/sedative procedure. The vial rubber stopper should be disinfected using 70% isopropyl acohol. DIPRIVAN Injectable Emulsion should be drawn into sterile syringes immediately after vials are opened. When withdrawing DIPRIVAN Injectable Emulsion from vials, a sterile vert spike should be used. The syringe(s) should belied with appropriate information including the date and time the vial was opened. Administration should commence promptly and be completed within 6 hours after the vials have

DIPRIVAN Injectable Emulsion should be prepared for single-patient use only. Any unused portions of DIPRIVAN Injectable Emulsion, reservoirs, dedicated administration tubing and/or solutions containing DIPRIVAN Injectable Emulsion must be discarded at the end of the anesthetic procedure or at 6 hours, whichever occurs sooner. The IV line should be flushed every 6 hours and at the end of the anesthetic procedure to remove residual DIPRIVAN Injectable

Emulsion.

Guidelines for Aseptic Technique for ICU Sedation
DIPRIVAN Injectable Emulsion should be prepared for single-patient use only. When DIPRIVAN Injectable Emulsion is administered directly from the vial, strict aseptic techniques must be followed. The vial rubber stopper should be disinfected using 70% isopropyl alcohol. A sterile vent spike and sterile tubing must be used for administration of DIPRIVAN Injectable Emulsion. As with other light emulsions, the number of IV line manipulations should be minimized. Administration should commence promptly and must be completed within 12 hours after the vial has been spiked. The tubing and any unused portions of DIPRIVAN Injectable Emulsion is transferred to a syringer or other container prior to administration, the handling procedures for General anesthesia/MAC sedation should be followed, and the product should be discarded and administration lines changed after 6 hours.

DIPRIVAN Injectable Emulsion is available in ready to use 20 mL infusion vials, 50 mL infusion vials and 100 mL infusion vials containing 10 mg/mL of propofol.

100 mL infusion vials (NDC 0310-0300-11)

Propofol undergoes oxidative degradation, in the presence of oxygen, and is therefore packaged under nitrogen to eliminate this degradation path. Store between 4-22°C (40-72°F). Do not freeze. Shake well before use.

DIPRIVAN is a trademark of the AstraZeneca group of companies

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AstraZeneca

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