

Generic Name: Dexmedetomidine Hydrochloride
Trade Name: Precedex®
CDS Effective Date: Dec 23, 2025
Supersedes: N/A
Approved by BPOM:

PT PFIZER INDONESIA
Local Product Document

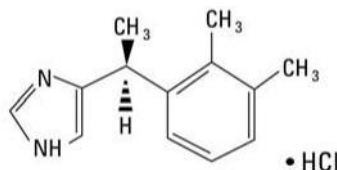
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Precedex® 100 µg/mL
Dexmedetomidine
Hydrochloride
Injection

R_x only

DESCRIPTION

Precedex® (dexmedetomidine hydrochloride injection) is a sterile, nonpyrogenic solution suitable for intravenous infusion following dilution. Dexmedetomidine hydrochloride is the S-enantiomer of medetomidine and is chemically described as (+)-4-(S)-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole monohydrochloride. Dexmedetomidine has a molecular weight of 236.7 and the empirical formula is C₁₃H₁₆N₂·HCl and the structural formula is:



Dexmedetomidine hydrochloride is a white or almost white powder that is freely soluble in water and has a pK_a of 7.1. Its partition coefficient in-octanol: water at pH 7.4 is 2.89. Precedex® is supplied as a clear, colorless, isotonic solution with a pH of 4.5 to 7.0. Each 1 mL of Precedex® contains 118 mcg of dexmedetomidine HCl (equivalent to 100 mcg dexmedetomidine base) and 9 mg of sodium chloride in water. The solution is preservative-free and contains no additives or chemical stabilizers.

CLINICAL PHARMACOLOGY

General:

Dexmedetomidine is a relatively selective alpha₂-adrenoceptor agonist with sedative properties. Alpha₂ selectivity is observed in animals following slow intravenous (IV) infusion of low and medium doses (10-300 mcg/kg). Both alpha₁ and alpha₂ activity is observed following slow IV infusion of high doses (≥ 1000 mcg/kg) or with rapid IV administration.

In a study in healthy volunteers (N=10), respiratory rate and oxygen saturation remained within normal limits and there was no evidence of respiratory depression when dexmedetomidine was administered by intravenous infusion at doses within the recommended dose range (0.2 - 0.7 mcg/kg/hr).

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The safety and efficacy of Precedex® has been evaluated in four randomized, double-blind, placebo-controlled multicenter clinical trials in 1185 adult patients.

Pharmacokinetics:

Following intravenous administration, dexmedetomidine exhibits the following pharmacokinetic parameters: a rapid distribution phase with a distribution half-life ($t_{1/2}$) of approximately 6 minutes; a terminal elimination half-life ($t_{1/2}$) of approximately 2 hours; and steady-state volume of distribution (V_{ss}) of approximately 118 liters. Clearance is estimated to be approximately 39 L/h. The mean body weight associated with this clearance estimate was 72 kg.

Dexmedetomidine exhibits linear pharmacokinetics in the dosage range of 0.2 to 0.7 µg/kg/hr when administered by IV infusion for up to 24 hours. Table 1 shows the main pharmacokinetic parameters when Precedex® was infused (after appropriate loading doses) at maintenance infusion rates of 0.17 µg/kg/hr (target plasma concentration of 0.3 ng/mL) for 12 and 24 hours, 0.33 µg/kg/hr (target plasma concentration of 0.6 ng/mL) for 24 hours, and 0.70 µg/kg/hr (target plasma concentration of 1.25 ng/mL) for 24 hours.

Table 1. Mean ± SD Pharmacokinetic Parameters				
Parameter	Loading Infusion (min)/Total Infusion Duration (hrs)			
	10 min/12 hrs	10 min/24 hrs	10 min/24 hrs	35 min/24 hrs
	Dexmedetomidine Target Plasma Concentration (ng/mL) and Dose (mcg/kg/hr)			
	0.3/0.17	0.3/0.17	0.6/0.33	1.25/0.70
$t_{1/2}$*, hour	1.78 ± 0.30	2.22 ± 0.59	2.23 ± 0.21	2.50 ± 0.61
CL, liter/hour	46.3 ± 8.3	43.1 ± 6.5	35.3 ± 6.8	36.5 ± 7.5
V_{ss}, liter	88.7 ± 22.9	102.4 ± 20.3	93.6 ± 17.0	99.6 ± 17.8
Avg C_{ss}#, ng/mL	0.27 ± 0.05	0.27 ± 0.05	0.67 ± 0.10	1.37 ± 0.20

Abbreviations: $t_{1/2}$ = half-life, CL = clearance, V_{ss} = steady state volume of distribution.

* Presented as harmonic mean and pseudo standard deviation.

Mean C_{ss} = Average steady-state concentration of dexmedetomidine. The mean C_{ss} was calculated based on post-dose sampling from 2.5 to 9 hour samples for 12 hour infusion and post-dose sampling from 2.5 to 18 hour samples for 24 hour infusions.

The loading doses for each of the above indicated groups were 0.5, 0.5, 1 and 2.2 mcg/kg, respectively.

Distribution

The steady-state volume of distribution (V_{ss}) of dexmedetomidine is approximately 118 liters. Dexmedetomidine protein binding was assessed in the plasma of normal healthy male and female subjects. The average protein binding was 94% and was constant across the different concentrations tested. Protein binding was similar in males and females. The fraction of dexmedetomidine that was bound to plasma proteins was significantly decreased in subjects with hepatic impairment compared to healthy subjects.

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The potential for protein binding displacement of dexmedetomidine by fentanyl, ketorolac, theophylline, digoxin and lidocaine was explored *in vitro*, and negligible changes in the plasma protein binding of dexmedetomidine were observed. The potential for protein binding displacement of phenytoin, warfarin, ibuprofen, propranolol, theophylline and digoxin by Precedex® was explored *in vitro* and none of these compounds appeared to be significantly displaced by Precedex®.

Elimination

Metabolism

Dexmedetomidine undergoes almost complete biotransformation with very little unchanged dexmedetomidine excreted in urine and feces. Biotransformation involves both direct glucuronidation as well as cytochrome P450 mediated metabolism. The major metabolic pathways of dexmedetomidine are: direct N-glucuronidation to inactive metabolites; aliphatic hydroxylation (mediated primarily by CYP2A6 with a minor role of CYP1A2, CYP2E1, CYP2D6 and CYP2C19) of dexmedetomidine to generate 3-hydroxy dexmedetomidine, the glucuronide of 3-hydroxy dexmedetomidine, and 3-carboxy dexmedetomidine; and N-methylation of dexmedetomidine to generate 3-hydroxy N-methyl dexmedetomidine, 3-carboxy N-methyl dexmedetomidine, and N-methyl O-glucuronide dexmedetomidine.

Excretion

The terminal elimination half-life ($t_{1/2}$) of dexmedetomidine is approximately 2 hours and clearance is estimated to be approximately 39 L/h. A mass balance study demonstrated that after nine days an average of 95% of the radioactivity, following IV administration of radiolabeled dexmedetomidine, was recovered in the urine and 4% in the feces. No unchanged dexmedetomidine was detected in the urine. Approximately 85% of the radioactivity recovered in the urine was excreted within 24 hours after the infusion. Fractionation of the radioactivity excreted in urine demonstrated that products of N-glucuronidation accounted for approximately 34% of the cumulative urinary excretion. In addition, aliphatic hydroxylation of parent drug to form 3-hydroxy dexmedetomidine, the glucuronide of 3-hydroxy dexmedetomidine, and 3-carboxylic acid dexmedetomidine together represented approximately 14% of the dose in urine. N-methylation of dexmedetomidine to form 3-hydroxy N-methyl dexmedetomidine, 3-carboxy N-methyl dexmedetomidine, and N-methyl O-glucuronide dexmedetomidine accounted for approximately 18% of the dose in urine. The N-Methyl metabolite itself was a minor circulating component and was undetected in urine. Approximately 28% of the urinary metabolites have not been identified.

Specific Populations

Male and Female Patients:

There was no observed difference in Precedex® pharmacokinetics due to gender.

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Geriatrics:

The pharmacokinetic profile of Precedex® was not altered by age. There were no differences in the pharmacokinetics of Precedex® in young (18 – 40 years), middle age (41 – 65 years), and elderly (>65 years) subjects.

Pediatrics:

The pharmacokinetic profile of dexmedetomidine has not been studied in pediatric patients.

Renal Impairment:

Dexmedetomidine pharmacokinetics (C_{max} , T_{max} , AUC, $t_{1/2}$, CL, and V_{ss}) were not significantly different in patients with severe renal impairment (creatinine clearance: <30 mL/min) compared to healthy subjects. However, the pharmacokinetics of the metabolites of dexmedetomidine have not been evaluated in patients with impaired renal function. Since the majority of metabolites are excreted in the urine, it is possible that the metabolites may accumulate upon long-term infusions in patients with impaired renal function. (See **WARNINGS AND PRECAUTIONS, DOSAGE AND ADMINISTRATION**).

Hepatic Impairment:

In subjects with varying degrees of hepatic impairment (Child-Pugh Class A, B, or C), clearance values for dexmedetomidine were lower than in healthy subjects. The mean clearance values for patients with mild, moderate, and severe hepatic impairment were 74%, 64% and 53% of those observed in the normal healthy subjects, respectively. Mean clearances for free drug were 59%, 51% and 32% of those observed in the normal healthy subjects, respectively.

Although Precedex® is dosed to effect, it may be necessary to consider dose reduction in subjects with hepatic impairment (see **WARNINGS AND PRECAUTIONS, Hepatic Impairment** and **DOSAGE AND ADMINISTRATION**).

Clinical Trials:

The safety and efficacy of Precedex® has been evaluated in two randomized, double-blind, parallel-group, placebo-controlled multicenter clinical trials included 754 adult patients being treated in a surgical intensive care unit (ICU). All patients were initially intubated and received mechanical ventilation. These trials evaluated the sedative properties of Precedex® by comparing the amount of rescue medication (midazolam in one trial and propofol in the second) required to achieve a specified level of sedation (using the standardized Ramsay sedation scale) between Precedex® and placebo from onset of treatment to extubation or to a total treatment duration of 24 hours. The Ramsay Level of Sedation Scale is displayed in Table 2.

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Table 2: Ramsay Level of Sedation Scale	
Clinical Score	Level of Sedation Achieved
6	Asleep, no response
5	Asleep, sluggish response to light glabellar tap or loud auditory stimulus
4	Asleep, but with brisk response to light glabellar tap or loud auditory stimulus
3	Patient responds to commands
2	Patient cooperative, oriented, and tranquil
1	Patient anxious, agitated, or restless

In the first study, 175 patients were randomized to receive placebo and 178 to receive Precedex® by intravenous infusion at a dose of 0.4 mcg/kg/hr (with allowed adjustment between 0.2 and 0.7 mcg/kg/hr) following an initial loading infusion of one mcg/kg IV over 10 minutes. The study drug infusion rate was adjusted to maintain a Ramsay sedation score of ≥ 3 . Patients were allowed to receive “rescue” midazolam as needed to augment the study drug infusion. In addition, morphine sulfate was administered for pain as needed. The primary outcome measure for this study was the total amount of rescue medication (midazolam) needed to maintain sedation as specified while intubated. Patients randomized to placebo received significantly more midazolam than patients randomized to Precedex® (see Table 3).

A second prospective primary analysis assessed the sedative effects of Precedex® by comparing the percentage of patients who achieved a Ramsay sedation score of ≥ 3 during intubation without the use of additional rescue medication. A significantly greater percentage of patients in the Precedex® group maintained a Ramsay sedation score of ≥ 3 without receiving any midazolam rescue compared to the placebo group (see Table 3).

Table 3: Midazolam Use as Rescue Medication During Intubation (ITT)			
	Study One		
	Placebo (N=175)	Precedex® (N=178)	p-value
Mean Total Dose (mg) of Midazolam	19 mg	5 mg	0.0011*
Standard deviation	53 mg	19 mg	
Categorised Midazolam Use			
0 mg	43 (25%)	108 (61%)	<0.001**
0-4 mg	34 (19%)	36 (20%)	
>4 mg	98 (56%)	34 (19%)	

ITT (intent-to-treat) population includes all randomized patients.

*ANOVA model with treatment center.

**Chi-square

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A prospective secondary analysis assessed the dose of morphine sulfate administered to patients in the Precedex® and placebo groups. On average, Precedex®-treated patients received less morphine sulfate for pain than placebo-treated patients (0.47 versus 0.83 mg/h). In addition, 44% (79 of 178 patients) of Precedex® patients received no morphine sulfate for pain versus 19% (33 of 175 patients) in the placebo group.

In a second study, 198 adult patients were randomized to receive placebo and 203 to receive Precedex® by intravenous infusion at a dose of 0.4 mcg/kg/hr (with allowed adjustment between 0.2 and 0.7 mcg/kg/hr) following an initial loading infusion of 1 (one) mcg/kg IV over 10 minutes. The study drug infusion was adjusted to maintain a Ramsay sedation score of ≥ 3 . Patients were allowed to receive “rescue” propofol as needed to augment the study drug infusion. In addition, morphine sulfate was administered as needed for pain. The primary outcome measure for this study was the total amount of rescue medication (propofol) needed to maintain sedation as specified while intubated.

Patients randomized to placebo received significantly more propofol than patients randomized to Precedex® (see Table 4).

A significantly greater percentage of patients in the Precedex® group compared to the placebo group maintained a Ramsay sedation score of ≥ 3 without receiving any propofol rescue (see Table 4).

Table 4: Propofol Use as Rescue Medication During Intubation (ITT)			
	Study Two		
	Placebo (N=198)	Precedex® (N=203)	p-value
Mean Total Dose (mg) of Propofol	513 mg	72 mg	<0.0001*
Standard deviation	782 mg	249 mg	
Categorised Propofol Use			
0 mg	47 (24%)	122 (60%)	<0.001**
0-50 mg	30 (15%)	43 (21%)	
>50 mg	121 (61%)	38 (19%)	

*ANOVA model with treatment center.

**Chi-square

A prospective secondary analysis assessed the dose of morphine sulfate administered to patients in the Precedex® and placebo groups. On average, Precedex®-treated patients received less morphine sulfate for pain than placebo-treated patients (0.43 versus 0.89 mg/h). In addition, 41% (83 of 203 patients) of Precedex® patients received no morphine sulfate for pain versus 15% (30 of 198 patients) in the placebo group.

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In a controlled clinical trial, Precedex® was compared to midazolam for ICU sedation exceeding 24 hours duration. Precedex® was not shown to be superior to midazolam for the primary efficacy endpoint, the percent of time patients were adequately sedated (81% versus 81%).

INDICATIONS AND USAGE

Dexmedetomidine hydrochloride is indicated for sedation of initially intubated and mechanically ventilated adult patients during treatment in an intensive care setting. Dexmedetomidine hydrochloride should be administered by continuous infusion not to exceed 24 hours.

CONTRAINDICATIONS

Hypersensitivity to the active substance or to any of the excipients.

WARNINGS AND PRECAUTIONS

Drug Administration:

Dexmedetomidine hydrochloride is for hospital use only. Dexmedetomidine hydrochloride should be administered only by persons skilled in the management of patients in the intensive care setting. Due to the known pharmacological effects of dexmedetomidine hydrochloride, patients should be continuously monitored (MAC: Monitored Anesthesia Care) for early signs of hypotension, hypertension, bradycardia, respiratory depression, airway obstruction, apnoea, dyspnoea and/or oxygen desaturation while receiving dexmedetomidine hydrochloride. Supplemental oxygen should be immediately available and provided when indicated.

Hypotension, Bradycardia, and Sinus Arrest

Clinically significant episodes of bradycardia and sinus arrest have been associated with dexmedetomidine hydrochloride administration in young, healthy volunteers with high vagal tone or with different routes of administration including rapid intravenous or bolus administration.

Reports of hypotension and bradycardia have been associated with dexmedetomidine hydrochloride infusion. Some of these cases have resulted in fatalities. If medical intervention is required, treatment may include decreasing or stopping the infusion of dexmedetomidine hydrochloride, increasing the rate of IV fluid administration, elevation of the lower extremities, and use of pressor agents. Because dexmedetomidine hydrochloride has the potential to augment bradycardia induced by vagal stimuli, clinicians should be prepared to intervene. The intravenous administration of anticholinergic agents (e.g., atropine) should be considered to modify vagal tone. In clinical trials, atropine or glycopyrrolate were effective in the treatment of most episodes of dexmedetomidine hydrochloride-induced bradycardia. However, in some patients with significant cardiovascular dysfunction, more advanced resuscitative measures were required.

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Caution should be exercised when administering dexmedetomidine hydrochloride to patients with advanced heart block and/or severe ventricular dysfunction. Because dexmedetomidine hydrochloride decreases sympathetic nervous system activity, hypotension and/or bradycardia may be expected to be more pronounced in hypovolemic patients and in those with diabetes mellitus or chronic hypertension and in the elderly.

General

In situations where other vasodilators or negative chronotropic agents are administered, co-administration of dexmedetomidine hydrochloride could have an additive pharmacodynamic effect and should be administered with caution.

Transient hypertension has been observed primarily during the loading dose in association with the initial peripheral vasoconstrictive effects of dexmedetomidine hydrochloride. Treatment of transient hypertension has generally not been necessary, although reduction of the loading infusion rate may be desirable.

Dexmedetomidine hydrochloride infusion should not be co-administered through the same IV catheter with blood or plasma because physical compatibility has not been established. Safety and effectiveness of dexmedetomidine have not been evaluated in infusions over 24 hours. Dexmedetomidine is not indicated for infusions lasting over 24 hours (see **INDICATIONS AND USAGE, DOSAGE AND ADMINISTRATION**).

Arousability

Some patients receiving dexmedetomidine hydrochloride have been observed to be arousable and alert when stimulated. This alone should not be considered as evidence of lack of efficacy in the absence of other clinical signs and symptoms.

Withdrawal

Intensive Care Unit Sedation

With administration up to 7 days, regardless of dose, 12 (5%) dexmedetomidine hydrochloride adult subjects experienced at least 1 event related to withdrawal within the first 24 hours after discontinuing study drug and 7 (3%) dexmedetomidine hydrochloride adult subjects experienced at least 1 event 24 to 48 hours after end of study drug. The most common events were nausea, vomiting, and agitation.

In adult subjects, tachycardia and hypertension requiring intervention in the 48 hours following study drug discontinuation occurred at frequencies of <5%. If tachycardia and/or hypertension occurs after discontinuation of dexmedetomidine hydrochloride, supportive therapy is indicated.

Hyperthermia

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Dexmedetomidine hydrochloride may induce hyperthermia that may be resistant to traditional cooling methods. Precedex® should be discontinued and hyperthermia should be managed with conventional medical measures.

Hepatic Impairment

Since dexmedetomidine hydrochloride clearance decreases with severity of hepatic impairment, dose reduction should be considered in patients with impaired hepatic function (see **CLINICAL PHARMACOLOGY, Pharmacokinetics, DOSAGE AND ADMINISTRATION**).

Seizures

Dexmedetomidine lacks the anticonvulsant action of some other sedatives and so will not suppress underlying seizure activity.

Drug Interactions

General

In vitro studies did not demonstrate evidence for clinically relevant cytochrome P450-mediated drug interactions.

Anesthetics/Sedatives/Hypnotics/Opioids

Co-administration of dexmedetomidine hydrochloride with anesthetics, sedatives, hypnotics, and opioids is likely to lead to an enhancement of effects. Specific studies have confirmed these effects with sevoflurane, isoflurane, propofol, alfentanil, and midazolam. No pharmacokinetic interactions between dexmedetomidine hydrochloride and isoflurane, propofol, alfentanil and midazolam have been demonstrated. However, due to possible pharmacodynamic interactions, when co-administered with dexmedetomidine hydrochloride, a reduction in dosage of dexmedetomidine hydrochloride or the concomitant anesthetic, sedative, hypnotic or opioid may be required.

Neuromuscular Blockers

In one study of 10 healthy volunteers, administration of dexmedetomidine hydrochloride for 45 minutes at a plasma concentration of one ng/mL resulted in no clinically meaningful increases in the magnitude of neuromuscular blockade associated with rocuronium administration.

Drugs with Cardiovascular Activities

The possibility of enhanced hypotensive and bradycardic effects should be considered in patients receiving other medicinal products causing these effects, for example beta blockers, although additional effects in an interaction study with esmolol were modest.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Animal carcinogenicity studies have not been performed with dexmedetomidine.

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Mutagenesis

Dexmedetomidine was not mutagenic *in vitro*, in either the bacterial reverse mutation assay (*E. coli* and *Salmonella typhimurium*) or the mammalian cell forward mutation assay (mouse lymphoma). Dexmedetomidine was clastogenic in the *in vitro* human lymphocyte chromosome aberration test with, but not without, rat S9 metabolic activation. In contrast, dexmedetomidine was not clastogenic in the *in vitro* human lymphocyte chromosome aberration test with or without human S9 metabolic activation. Although dexmedetomidine was also clastogenic in the *in vivo* mouse micronucleus test in NMRI mice, there was no evidence of clastogenicity in CD-1 mice.

Impairment of Fertility

Fertility in male or female rats was not affected after daily subcutaneous injections at of dexmedetomidine doses up to 54 mcg/kg (less than the maximum recommended human intravenous dose on a mcg/m² basis) administered from 10 weeks prior to mating in males, and 3 weeks prior to mating and during mating in females.

Animal Toxicology and/or Pharmacology

There were no differences in the adrenocorticotrophic hormone (ACTH)-stimulated cortisol response in dogs following a single dose of dexmedetomidine compared to saline control. However, after continuous subcutaneous infusions of dexmedetomidine at 3 mcg/kg/hr and 10 mcg/kg/hr for one week in dogs (exposures estimated to be within the clinical range), the ACTH-stimulated cortisol response was diminished by approximately 27% and 40%, respectively, compared to saline-treated control animals indicating a dose-dependent adrenal suppression.

Pregnancy: Teratogenic Effects. Pregnancy Category C

Teratogenic effects were not observed following administration of dexmedetomidine at subcutaneous doses up to 200 mcg/kg in rats from day 5 to day 16 of gestation and intravenous doses up to 96 mcg/kg in rabbits from day 6 to day 18 of gestation. The dose in rats is approximately 2 times the maximum recommended human intravenous dose on a mcg/m² basis. The exposure in rabbits is approximately equal to that in humans at the maximum recommended intravenous dose based on plasma area-under-the-curve values. However, fetal toxicity, as evidenced by increased post-implantation losses and reduced live pups, was observed in rats at subcutaneous dose of 200 mcg/kg. The no-effect dose was 20 mcg/kg (less than the maximum recommended human intravenous dose on a mcg/m² basis). In another reproductive study when dexmedetomidine was administered subcutaneously to pregnant rats from gestation day 16 through nursing, it caused lower pup weights at 8 and 32 mcg/kg as well as fetal and embryocidal toxicity of second generation offspring at a dose of 32 mcg/kg (less than the maximum recommended human intravenous dose on a mcg/m² basis). Dexmedetomidine also produced delayed motor development in pups at a dose of 32 mcg/kg (less than the maximum recommended human intravenous dose on a mcg/m² basis). No such effects were

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observed at a dose of 2 mcg/kg (less than the maximum recommended intravenous dose on a mcg/m² basis).

Placental transfer of dexmedetomidine was observed when radiolabeled dexmedetomidine was administered subcutaneously to pregnant rats.

There are no adequate and well-controlled studies of dexmedetomidine hydrochloride use in pregnant women. Dexmedetomidine has been shown to cross the placental barrier in both animal and human published studies.

The limited available information on dexmedetomidine hydrochloride use during pregnancy is not sufficient to inform a drug-associated risk of birth defects or miscarriage. Precedex® should be used during pregnancy only if the potential benefits justify the potential risk to the fetus.

It has been reported that prenatal exposure to dexmedetomidine may be associated with some degree of functional impairment at birth in some neonates.

Perioperative administration of dexmedetomidine in pregnant women receiving general anesthesia for elective caesarean section was associated with a longer time to clinical recovery and extubation compared with other anesthetic agents.

In a study in the pregnant rat, placental transfer of dexmedetomidine was observed when radiolabeled dexmedetomidine was administered subcutaneously.

Nursing Mothers:

Dexmedetomidine is excreted in human milk, but no studies assessing the effects of dexmedetomidine in breastfed children and on milk production have been performed.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for dexmedetomidine and any potential adverse effects on the breast fed child from dexmedetomidine.

A lactating woman may consider interrupting breastfeeding and pumping and discarding breast milk for 24 hours after receiving dexmedetomidine in order to minimize potential drug exposure to a breastfed neonate.

Pediatrics:

The efficacy and safety of Precedex® in pediatric patients less than 18 years of age have not been established for procedural or ICU sedation. Therefore, Precedex® is not recommended in this population.

Three pivotal studies in ICU sedation did not meet their primary efficacy endpoint, and the safety data were insufficient to fully characterize the safety profile of Precedex®.

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One open-label ICU sedation study conducted in Japanese patients did meet its primary efficacy endpoint.

One open-label study conducted in pediatric patients for procedural sedation also did not meet its efficacy endpoint.

The safety profile of Precedex® in these studies was generally similar to that of adults, although increased frequencies of adverse events of bradycardia, hypotension, and respiratory depression were seen in the Japan ICU sedation study.

Geriatrics:

Intensive Care Unit Sedation – Elderly

A total of 729 patients in the clinical studies were 65 years of age and over. A total of 200 patients were 75 years of age and over. In patients greater than 65 years of age, a higher incidence of bradycardia and hypotension was observed following administration of Precedex® (see ***WARNINGS AND PRECAUTIONS, Hypotension, Bradycardia, and Sinus Arrest***). Therefore, a dose reduction may be considered in patients over 65 years of age (see ***CLINICAL PHARMACOLOGY, Geriatrics*** and ***DOSAGE AND ADMINISTRATION, Dosage Adjustment***).

Dexmedetomidine is known to be substantially excreted by the kidney, and the risk of adverse reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection in elderly patients, and it may be useful to monitor renal function.

EFFECTS ON ABILITY TO DRIVE AND USE MACHINES

Patients should be advised that performance of activities requiring mental alertness, such as operating a motor vehicle or hazardous machinery, may be impaired for some time after sedation.

ADVERSE REACTIONS

Clinical Studies Experience

Because clinical trials are conducted under widely varying conditions, adverse reactions rates observed in the clinical trials of a drug cannot be directly compared to rates in clinical trials of another drug and may not reflect the rates observed in practice.

Use of Precedex® has been associated with the following serious adverse reactions:

- Hypotension, bradycardia and sinus arrest (see ***WARNINGS AND PRECAUTIONS***)
- Transient hypertension (see ***WARNINGS AND PRECAUTIONS***)

Most common treatment-emergent adverse reactions, occurring in greater than 2% of patients in both Intensive Care Unit and procedural sedation studies include hypotension, bradycardia and dry mouth.

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Adverse reaction information is derived from the continuous infusion trials of Precedex® for sedation in the Intensive Care Unit setting in which 1007 adult patients received Precedex®. The mean total dose was 7.4 mcg/kg (range: 0.8 to 84.1), mean dose per hour was 0.5 mcg/kg/hr (range: 0.1 to 6.0) and the mean duration of infusion of 15.9 hours (range: 0.2 to 157.2). The population was between 17 to 88 years of age, 43% ≥65 years of age, 77% male and 93% Caucasian. Treatment-emergent adverse reactions occurring at an incidence of >2% are provided in Table 5. The most frequent adverse reactions were hypotension, bradycardia and dry mouth (see **WARNINGS AND PRECAUTIONS**).

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Table 5: Adverse Reactions with an Incidence >2%-Adult Intensive Care Unit Sedation Population <24 hours*

Adverse Event	All Precedex® (N = 1007) (%)	Randomized Precedex® (N = 798) (%)	Placebo (N = 400) (%)	Propofol (N = 188) (%)
Hypotension	25%	24%	12%	13%
Hypertension	12%	13%	19%	4%
Nausea	9%	9%	9%	11%
Bradycardia	5%	5%	3%	0
Atrial Fibrillation	4%	5%	3%	7%
Pyrexia	4%	4%	4%	4%
Dry Mouth	4%	3%	1%	1%
Vomiting	3%	3%	5%	3%
Hypovolemia	3%	3%	2%	5%
Atelectasis	3%	3%	3%	6%
Pleural Effusion	2%	2%	1%	6%
Agitation	2%	2%	3%	1%
Tachycardia	2%	2%	4%	1%
Anemia	2%	2%	2%	2%
Hyperthermia	2%	2%	3%	0
Chills	2%	2%	3%	2%
Hyperglycemia	2%	2%	2%	3%
Hypoxia	2%	2%	2%	3%
Post-procedural Hemorrhage	2%	2%	3%	4%
Pulmonary Edema	1%	1%	1%	3%
Hypocalcemia	1%	1%	0	2%
Acidosis	1%	1%	1%	2%
Urine Output Decreased	1%	1%	0	2%
Sinus Tachycardia	1%	1%	1%	2%
Ventricular Tachycardia	<1%	1%	1%	5%
Wheezing	<1%	1%	0	2%
Edema Peripheral	<1%	0	1%	2%

* 26 subjects in the all Precedex® group and 10 subjects in the randomized Precedex® group had exposure for greater than 24 hours.

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Adverse event information is derived from the placebo-controlled, continuous infusion trials of dexmedetomidine for sedation in the ICU setting in which 387 patients received Precedex®. Overall, the most frequently observed treatment-emergent adverse events included hypotension, hypertension, nausea, bradycardia, fever, vomiting, hypoxia, tachycardia and anemia (see Table 6).

Table 6: Treatment-Emergent Adverse Events Occurring in >1% of All Dexmedetomidine-Treated Patients in the Randomized Placebo-controlled Continuous Infusion ICU Sedation Studies		
Adverse Event	Randomized Dexmedetomidine (N=387)	Placebo (N=379)
Hypotension	28%	13%
Hypertension	16%	18%
Nausea	11%	9%
Bradycardia	7%	3%
Fever	5%	4%
Vomiting	4%	6%
Atrial Fibrillation	4%	3%
Hypoxia	4%	4%
Tachycardia	3%	5%
Hemorrhage	3%	4%
Anemia	3%	2%
Dry Mouth	3%	1%
Rigors	2%	3%
Agitation	2%	3%
Hyperpyrexia	2%	3%
Pain	2%	2%
Hyperglycemia	2%	2%
Acidosis	2%	2%
Pleural Effusion	2%	1%
Oliguria	2%	<1%
Thirst	2%	<1%

The treatment-emergent adverse events in Table 7 were reported in ≤1% of all dexmedetomidine-treated patients that are potentially clinically relevant.

Table 7: Potentially Clinically Relevant Treatment-Emergent Adverse Events to Dexmedetomidine Reported in ≤1% of Patients in the Continuous Infusion ICU Sedation Trials	
Body System	Preferred Term
Body as a Whole	Fever, Hyperpyrexia, Hypovolemia, Light Anesthesia, Pain, Rigors

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Cardiovascular Disorders, General	Blood pressure fluctuation, Heart disorder, Aggravated hypertension
Central and Peripheral Nervous System Disorders	Dizziness, Headache, Neuralgia, Neuritis, Speech disorder
Gastrointestinal System Disorders	Abdominal pain, Diarrhea, Vomiting
Heart Rate and Rhythm Disorders	Arrhythmia, Ventricular arrhythmia, AV block, Cardiac arrest, Extrasystoles, Atrial fibrillation, Heart block, T wave inversion, Tachycardia, Supraventricular tachycardia, Ventricular tachycardia
Liver and Biliary System Disorders	Increased GGT, Increased SGOT, Increased SGPT
Metabolic and Nutritional Disorders	Acidosis, Respiratory acidosis, Hyperkalemia, Increased alkaline phosphatase, Thirst
Psychiatric Disorders	Agitation, Confusion, Delirium, Hallucination, Illusion
Red Blood Cell Disorders	Anemia
Respiratory System Disorders	Apnoea, Bronchospasm, Dyspnea, Hypercapnia, Hypoventilation, Hypoxia, Pulmonary congestion
Skin and Appendages Disorders	Increased sweating
Vision Disorders	Photopsia, Abnormal vision

Postmarketing Experience

The following adverse reactions have been identified during post approval use of Precedex®. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Hypotension and bradycardia were the most common adverse reactions associated with the use of Precedex® during post approval use of the drug.

Table 8: Adverse Reactions Experienced During Post-approval Use of Precedex®

System Organ Class	Preferred Term
Blood and Lymphatic System Disorders	Anemia
Cardiac Disorders	Arrhythmia, atrial fibrillation, atrioventricular block, bradycardia, cardiac arrest, cardiac disorder, extrasystoles, myocardial infarction, supraventricular

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	tachycardia, tachycardia, ventricular arrhythmia, ventricular tachycardia
Eye Disorders	Photopsia, visual impairment
Gastrointestinal Disorders	Abdominal pain, diarrhea, nausea, vomiting
General Disorders and Administration Site Conditions	Chills, hyperpyrexia, pain, pyrexia, thirst
Hepatobiliary Disorders	Hepatic function abnormal, hyperbilirubinemia
Investigations	Alanine aminotransferase increased, aspartate aminotransferase increased, blood alkaline phosphatase increased, blood urea increased, electrocardiogram T wave inversion, gamma glutamyl transferase increased, electrocardiogram QT prolonged
Metabolism and Nutrition Disorders	Acidosis, hyperkalemia, hypoglycaemia, hypovolemia, hypernatremia, hypokalaemia
Nervous System Disorders	Convulsion, dizziness, headache, neuralgia, neuritis, speech disorder
Psychiatric Disorders	Agitation, confusional state, delirium, hallucination, illusion
Renal and Urinary Disorders	Oliguria, polyuria
Respiratory, Thoracic and Mediastinal Disorders	Apnoea, bronchospasm, dyspnea, hypercapnia, hypoventilation, hypoxia, pulmonary congestion, respiratory acidosis
Skin and Subcutaneous Tissue Disorders	Hyperhidrosis, pruritus, rash, urticaria
Surgical and Medical Procedures	Light anesthesia
Vascular Disorders	Blood pressure fluctuation, hemorrhage, hypertension, hypotension

Description of selected adverse reactions

Urinary/electrolytes abnormalities

Polyuria in association with electrolyte abnormalities (i.e.: hypernatremia), resembling diabetes insipidus, have been co-reported in patients receiving dexmedetomidine. These have resolved upon dexmedetomidine discontinuation.

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Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via:

Pusat Farmakovigilans/MESO Nasional

Direktorat Pengawasan Keamanan, Mutu, dan Ekspor Impor Obat, Narkotika,
Psikotropika, Prekursor dan Zat Adiktif

Badan Pengawas Obat dan Makanan

Jl. Percetakan Negara No. 23, Jakarta Pusat, 10560

Email: pv-center@pom.go.id

Phone: +62-21-4244691 Ext .1079

Website: <https://e-meso.pom.go.id/ADR>

PT Pfizer Indonesia

Email: IDN.AEReporting@pfizer.com

Website: www.pfizersafetyreporting.com

DRUG ABUSE AND DEPENDENCE

Precedex® (dexmedetomidine hydrochloride) is not a controlled substance.

The dependence potential of dexmedetomidine hydrochloride has not been studied in humans. However, since studies in rodents and primates have demonstrated that dexmedetomidine hydrochloride exhibits pharmacologic actions similar to those of clonidine, it is possible that dexmedetomidine hydrochloride may produce a clonidine-like withdrawal syndrome upon abrupt discontinuation (see **WARNINGS AND PRECAUTIONS, Withdrawal**).

OVERDOSAGE

The tolerability of dexmedetomidine hydrochloride was studied in one study in which healthy subjects were administered doses at and above the recommended dose of 0.2 to 0.7 mcg/kg/hr. The maximum blood concentration achieved in this study was approximately 13 times the upper boundary of the therapeutic range. The most notable effects observed in two subjects who achieved the highest doses were first degree AV block and second degree heart block. No hemodynamic compromise was noted with the AV block and the heart block resolved spontaneously within one minute.

Five adult patients received an overdose of dexmedetomidine hydrochloride in the intensive care unit sedation studies. Two of these patients had no symptoms reported; one patient received a 2 mcg/kg loading dose over 10 minutes (twice the recommended loading dose) and one patient received a maintenance infusion of 0.8 mcg/kg/hr. Two other patients who received a 2 mcg/kg loading dose over 10 minutes, experienced bradycardia and/or hypotension. One patient who received a loading bolus dose of undiluted dexmedetomidine hydrochloride (19.4 mcg/kg), had cardiac arrest from which he was successfully resuscitated.

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DOSAGE AND ADMINISTRATION

Precedex® should be administered using a controlled infusion device.

Precedex® dosing should be individualized and titrated to the desired clinical effect. For adult patients, Precedex® is generally initiated with a loading infusion of 1 (one) mcg/kg over 10 minutes, followed by a maintenance infusion of 0.2 to 0.7 mcg/kg/hr. The rate of the maintenance infusion should be adjusted to achieve the desired level of sedation.

Dexmedetomidine is not indicated for infusions lasting longer than 24 hours.

Precedex® has been continuously infused in mechanically ventilated patients prior to extubation, during extubation, and post-extubation. It is not necessary to discontinue Precedex® prior to extubation provided the infusion does not exceed 24 hours.

Dosage Adjustment

Elderly patients

A dose reduction for both the loading and maintenance doses should be considered for patients over 65 years of age (see ***WARNINGS AND PRECAUTIONS, General and Geriatrics***).

Patients with renal impairment

No dose adjustment is required for patients with renal impairment (see ***CLINICAL PHARMACOLOGY, Pharmacokinetics***).

Patients with hepatic impairment

Dexmedetomidine hydrochloride should be used with caution in adult patients with hepatic impairment. A dose reduction should be considered for both the loading and maintenance doses (see ***WARNINGS AND PRECAUTIONS, Hepatic Impairment and CLINICAL PHARMACOLOGY, Pharmacokinetics***).

Dilution Prior to Administration

Precedex® must be diluted in 0.9% sodium chloride injection to achieve required concentration (4 mcg/mL) prior to administration.

Preparation of solutions is the same, whether for the loading dose or maintenance infusion (see ***DOSAGE AND ADMINISTRATION***).

To prepare the infusion, withdraw 2 mL of Precedex® and add to 48 mL of 0.9% sodium chloride injection to a total of 50 mL. Shake gently to mix well.

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Administration with Other Fluids

Precedex® should not be co-administered through the same intravenous catheter with blood or plasma because physical compatibility has not been established. Precedex® has been shown to be incompatible when administered with the following drugs: amphotericin B, diazepam. Precedex® has been shown to be compatible when administered with the following intravenous fluids and drugs:

Lactated Ringer's solution, 5% dextrose in water, 0.9% sodium chloride in water, 20% mannitol, 100mg/mL magnesium sulfate solution, 0.3% potassium chloride solution, thiopental sodium, etomidate, vecuronium bromide, pancuronium bromide, succinylcholine, atracurium besylate, mivacurium chloride, glycopyrrolate bromide, phenylephrine HCl, atropine sulfate, midazolam, morphine sulfate, fentanyl citrate and a plasma-substitute.

Handling Procedures

Parenteral products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. Strict aseptic technique must always be maintained during handling of dexmedetomidine. Vials are intended for single use only.

Compatibility studies have demonstrated the potential for absorption of Precedex® to some types of natural rubber. Although Precedex® is dosed to effect, it is advisable to use administration components made with synthetic or coated natural rubber gaskets.

PHARMACEUTICAL PARTICULARS

Appearance:

Clear and colorless sterile solution.

List of excipients:

Sodium chloride, nitrogen and water for injection.

HOW SUPPLIED

Precedex® (dexmedetomidine hydrochloride injection), 100 mcg/mL as the base is available in
2 mL clear glass vial.

List No.	Container	Size
1638	Vial	2 mL

Store below 25°C.

HARUS DENGAN RESEP DOKTER

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Supersedes: N/A
Approved by BPOM:

Manufactured by:

Hospira, Inc. Rocky Mount,
NC 27801, USA

Packed by:

Avara Liscate Pharmaceutical Services S.p.A., Liscate (MI), Italy

Licensed from:

Orion Corporation
Espoo, Finland

Imported by:

PT Pfizer Indonesia,
Jakarta-Indonesia

REG No: DKI1811901443A1

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Disetujui oleh BPOM:

Brosur kemasan: Informasi bagi pengguna

Precedex® 100 µg/mL Injeksi Deksmetomidin Hidroklorida

Bacalah brosur ini dengan cermat sebelum Anda menggunakan obat ini karena mengandung informasi yang penting untuk Anda.

- Simpan brosur ini. Anda mungkin perlu membacanya kembali.
- Jika Anda memiliki pertanyaan lebih lanjut, tanyakan kepada dokter, apoteker, atau perawat Anda.
- Obat ini telah diresepkan hanya untuk Anda. Jangan berikan kepada orang lain. Mungkin akan membahayakan mereka.
- Jika Anda mengalami efek samping apa pun, konsultasikan dengan dokter, apoteker, atau perawat Anda. Ini termasuk segala bentuk efek samping yang tidak tercantum di dalam brosur ini. Lihat bagian 8.

Isi brosur ini:

1. Nama produk
2. Deskripsi produk
3. Apa kandungan obat ini?
4. Kekuatan obat
5. Apa kegunaan obat ini?
6. Berapa banyak dan seberapa sering Anda seharusnya menggunakan obat ini?
7. Kapan seharusnya Anda tidak menggunakan obat ini?
8. Efek yang tidak diharapkan
9. Apa saja obat atau makanan lain yang harus dihindari selama menggunakan obat ini?
10. Apa yang harus dilakukan jika ada dosis terlewat?
11. Bagaimana cara menyimpan obat ini?
12. Tanda dan gejala kelebihan dosis
13. Apa yang harus dilakukan jika Anda menggunakan dosis melebihi anjuran?
14. Apa saja yang perlu diperhatikan saat menggunakan obat ini?
15. Kapan sebaiknya Anda berkonsultasi dengan dokter?
16. Nama/logo produsen/importir/Pemegang Hak Pemasaran
17. Tanggal revisi PIL

1. Nama produk

Precedex®

2. Deskripsi produk

Precedex® adalah larutan steril yang bening dan tidak berwarna, nonpirogenik yang sesuai untuk infus intravena setelah diencerkan.

3. Apa kandungan obat ini?

Setiap 1 mL Precedex® mengandung 118 µg deksetomidin HCl (setara dengan 100 µg deksetomidin basa) dan 9 mg natrium klorida di dalam air.

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Bahan-bahan lainnya adalah:

Natrium klorida, nitrogen dan air steril untuk injeksi.

4. Kekuatan obat

100µg/mL

5. Apa kegunaan obat ini?

Precedex® diindikasikan untuk sedasi bagi pasien dewasa yang diintubasi awal dan diventilasi secara mekanis selama terapi di lingkungan perawatan intensif. Precedex® harus diberikan melalui infus berkelanjutan tidak lebih dari 24 jam.

6. Berapa banyak dan seberapa sering Anda seharusnya menggunakan obat ini?

Precedex® diberikan kepada Anda oleh dokter atau perawat dalam perawatan intensif di rumah sakit.

Precedex® diencerkan dan diberikan kepada Anda melalui infus (tetes) ke dalam pembuluh vena Anda.

Untuk pasien dewasa, Precedex® umumnya dimulai dengan infus awal dalam konsentrasi 1 (satu) µg/kg selama 10 menit, diikuti dengan infus pemeliharaan dalam konsentrasi 0,2 hingga 0,7 µg/kg/jam. Laju infus pemeliharaan harus disesuaikan untuk mencapai tingkat sedasi yang diharapkan. Precedex® harus diberikan dengan menggunakan alat infus yang terkendali. Precedex® telah diberikan secara berkelanjutan pada pasien yang diventilasi secara mekanis sebelum ekstubasi, selama ekstubasi, dan pascaekstubasi. Tidak perlu menghentikan Precedex® sebelum ekstubasi dengan syarat infus tidak melebihi 24 jam.

7. Kapan seharusnya Anda tidak menggunakan obat ini?

Precedex® tidak diindikasikan untuk pasien yang mengalami kondisi berikut:

- Jika Anda alergi terhadap Precedex® atau komponen mana pun dari obat ini.
- Jika Anda berusia di bawah 18 tahun.

Kontraindikasi Tambahan untuk Penggunaan Spesifik

Kehamilan dan menyusui

Precedex® tidak boleh digunakan selama kehamilan atau menyusui kecuali jika memang benar-benar dibutuhkan. Mintalah saran dari dokter Anda sebelum menggunakan obat ini.

Mengemudi dan menggunakan mesin

Precedex® berdampak besar terhadap kemampuan mengemudi dan menggunakan mesin. Setelah Anda diberi Precedex® maka Anda dilarang untuk mengemudi, mengoperasikan mesin, atau bekerja dalam situasi yang berbahaya hingga efeknya benar-benar hilang. Tanyakan kepada dokter Anda, kapan Anda bisa mulai melakukan aktivitas ini lagi dan kapan Anda dapat kembali mengerjakan pekerjaan semacam ini.

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8. Efek yang tidak diharapkan

Sebagaimana obat-obatan lainnya, obat ini dapat menimbulkan efek samping, meskipun tidak semua orang mengalaminya. Jika efek samping bertambah parah, atau jika Anda mengalami efek samping yang tidak tercantum dalam brosur ini, harap konsultasikan dengan dokter, apoteker, atau perawat.

Kejadian merugikan yang muncul selama pengobatan dan paling sering teramati di antaranya adalah hipotensi, hipertensi, mual, bradikardia, demam, muntah, hipoksia, takikardia, dan anemia.

Buang air kecil lebih sering daripada biasanya (poliuria), terkadang disertai dengan perubahan garam-garam dalam darah (seperti natrium tinggi), pernah dilaporkan dalam penggunaan pascapemasaran. Gejala-gejala ini biasanya membaik setelah obat dihentikan. Jika Anda merasa haus atau buang air kecil lebih sering daripada biasanya, beri tahu dokter Anda.

Jika Anda berusia lebih dari 65 tahun, maka peluang Anda mengalami efek samping akan semakin meningkat.

Efek samping yang dilaporkan dalam uji klinis atau selama pengalaman pasca-pemasaran:

Tekanan darah rendah atau tinggi

Mual

Denyut jantung lambat

Denyut jantung cepat

Suhu tubuh tinggi

Mulut kering

Muntah

Denyut jantung tidak teratur

Tubuh kehilangan darah atau cairan

Gangguan pernapasan atau berhenti bernapas atau nyeri dada (tanda-tanda atelektasis – paru-paru mengalami kolaps sebagian atau total)

Cairan berlebih di dalam ruang antara paru-paru dan dinding dada

Gelisah

Anemia (sel darah merah rendah)

Menggigil

Gula darah tinggi

Kekurangan oksigen

Akumulasi cairan di dalam jaringan dan ruang udara paru-paru

Kadar kalsium yang lebih rendah dibandingkan rata-rata

Kondisi ketika terlalu banyak asam di dalam tubuh

Perdarahan

Penurunan volume air seni

Kaku

Nyeri

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Haus

Gangguan pernapasan (seperti mengi, penyempitan saluran napas yang mendadak, berhenti bernapas, napas menjadi lambat atau dangkal, atau sesak napas).

Pembengkakan pada tungkai atau lengan (edema perifer)

Efek sedasi yang dirasakan kurang mendalam sebagaimana diharapkan (anestesia ringan)

Fluktuasi tekanan darah

Memburuknya tekanan darah tinggi

Pusing

Sakit kepala

Nyeri saraf (Neuralgia)

Peradangan saraf (Neuritis)

Kesulitan berbicara

Nyeri perut

Diare

Gangguan jantung, termasuk hasil tes fungsi jantung yang tidak normal

Hasil tes fungsi hati tidak normal

Kadar kalium darah tinggi

Kebingungan

Kebingungan berat (delirium)

Melihat atau mendengar hal-hal yang tidak kasat mata (halusinasi)

Ilusi

Kadar karbon dioksida darah tinggi

Tekanan atau kelebihan cairan dalam paru-paru (kongesti paru)

Lebih banyak berkeringat

Melihat kilatan cahaya (fotopsia)

Penglihatan tidak normal (penglihatan kabur atau berubah)

Perubahan fungsi hati

Kadar bilirubin darah tinggi

Kadar gula darah rendah

Kadar natrium darah tinggi

Kadar kalium darah rendah

Kejang (konvulsi)

Pruritus (gatal-gatal)

Ruam

Urtikaria (kaligata)

Poliuria (lebih sering buang air kecil daripada biasanya)

Melaporkan efek samping

Jika Anda mengalami efek samping apa pun, beri tahu dokter atau perawat Anda. Termasuk kemungkinan efek samping yang tidak tercantum dalam leaflet ini. Dengan melaporkan efek samping, Anda telah membantu memberikan informasi lebih banyak tentang keamanan obat ini.

Untuk melaporkan efek samping, hubungi www.pfizersafetyreporting.com atau email di IDN.AEReporting@pfizer.com.

9. Apa saja obat atau makanan lain yang harus dihindari selama menggunakan obat ini?

Beri tahu dokter, apoteker, atau perawat jika Anda sedang meminum atau baru-baru ini meminum obat lain, termasuk obat yang diperoleh tanpa resep. Terdapat beberapa obat yang mungkin akan berinteraksi dengan Precedex®.

Pemberian Precedex® bersamaan dengan obat-obatan anestesi, sedatif, hipnotik, dan opioid kemungkinan akan mendorong penguatan efek, sehingga penurunan dosis Precedex® mungkin diperlukan.

Pemberian Precedex® bersama vasodilator lain, agen kronotropik negatif, atau obat dengan aktivitas kardiovaskular harus dilakukan secara hati-hati.

10. Apa yang harus dilakukan jika ada dosis terlewat?

Karena Precedex® diberikan kepada Anda di bawah pengawasan dokter, maka sangat kecil kemungkinan Anda akan melewatkan dosis.

11. Bagaimana cara menyimpan obat ini?

- Jauhkan dari jangkauan dan penglihatan anak-anak.
- Simpan pada suhu di bawah 25°C.

12. Tanda dan gejala kelebihan dosis

Penyumbatan AV, penyumbatan jantung, bradikardia, hipotensi, serangan jantung telah dilaporkan dalam kasus overdosis Precedex®.

13. Apa yang harus dilakukan jika Anda menggunakan dosis melebihi anjuran?

Karena Precedex® diberikan kepada Anda di bawah pengawasan dokter, maka sangat kecil kemungkinan Anda akan mengalami kelebihan dosis.

14. Apa saja yang perlu diperhatikan saat menggunakan obat ini?

- Precedex® hanya boleh diberikan oleh orang yang terampil dalam penatalaksanaan pasien di lingkungan perawatan intensif. Dikarenakan efek farmakologis Precedex® yang diketahui, maka pasien harus dipantau secara terus-menerus (MAC (Monitored Anesthesia Care): Perawatan Anestesi yang Dipantau) untuk melihat tanda-tanda awal hipotensi, hipertensi, bradikardia, penurunan pernapasan, penyumbatan jalan napas, apnea, dispnea dan/atau desaturasi oksigen selama pengobatan dengan Precedex®. Oksigen tambahan sebaiknya segera disediakan dan diberikan bila terindikasi dibutuhkan.
- Diperlukan kehati-hatian saat memberikan Precedex® kepada pasien yang mengalami sumbatan jantung tingkat lanjut dan/atau disfungsi ventrikel yang berat. Karena Precedex® menurunkan aktivitas sistem saraf simpatik, maka hipotensi dan/atau bradikardia cenderung tampak lebih jelas pada pasien yang menderita hipovolemia dan pada mereka yang mengidap diabetes melitus atau hipertensi kronis dan pada pasien lanjut usia.

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- Dalam situasi yang mengharuskan pemberian agen vasodilator atau kronotropik negatif lainnya, maka pemberian bersamaan dengan Precedex® dapat memberikan efek farmakodinamika tambahan dan harus diberikan secara berhati-hati.
- Infus Precedex® tidak boleh diberikan bersamaan melalui kateter intravena bersama dengan darah atau plasma karena kompatibilitas fisiknya belum ditetapkan.
- Karena bersihan deksmedetomidin menurun seiring dengan tingkat keparahan gangguan hati, maka penurunan dosis perlu dipertimbangkan pada pasien yang menderita gangguan fungsi hati.
- Risiko reaksi merugikan terhadap Precedex® mungkin lebih tinggi pada pasien yang menderita gangguan fungsi ginjal. Karena pasien lanjut usia cenderung mengalami penurunan fungsi ginjal, maka diperlukan kehati-hatian dalam menentukan dosis bagi pasien lanjut usia, dan perlu dilakukan pemantauan terhadap fungsi ginjal.
- Precedex® dapat memicu hipertermia yang bisa jadi resistan terhadap metode pendinginan tradisional. Precedex® harus dihentikan dan hipertermia harus ditangani dengan langkah-langkah medis konvensional.
- Precedex® tidak memiliki aksi antikonvulsan seperti sedatif lainnya, sehingga tidak akan menekan aktivitas kejang yang mendasari.
- Hindari mengoperasikan kendaraan bermotor atau mesin berbahaya setelah menerima sedasi.

15. Kapan sebaiknya Anda berkonsultasi dengan dokter?

Jika Anda memiliki pertanyaan lebih lanjut atau Anda mengalami situasi yang sama seperti yang tercantum dalam brosur ini, konsultasikan dengan dokter, apoteker, atau perawat Anda.

16. Nama/logo produsen/importir/Pemegang Hak Pemasaran

Diproduksi oleh:

Hospira, Inc. Rocky Mount,
NC 27801, USA

Dikemas oleh:

Avara Liscate Pharmaceutical Services S.p.A., Liscate (MI), Italia
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Orion Corporation
Espoo, Finlandia

Diimpor oleh:

PT Pfizer Indonesia, Jakarta-Indonesia

HARUS DENGAN RESEP DOKTER

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17. Tanggal revisi PIL

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