DOLESTINE

דולסטין

SOLUTION FOR I.M., I.V. or S.C. INJECTION תמיסה להזרקה לתוך השריר, לתוך הוריד או מתחת לעור

Composition

Each ampoule of 2 ml contains:
Pethidine (meperidine) hydrochloride 100 mg

Other Ingredients

Water for injections, sodium hydroxide (q.s.for pH

Mechanism of Action

WARNING: RISKS FROM CONCOMITANT USE WITH BENZODIAZEPINES OR OTHER CNS DEPRESSANTS

BENZODIAZEPINES OR OTHER CMS DEPRESSANTS
Concominant use of opioids with benzodiazepines or other central nervous system (CNS) depressants, including alcohol, way result in profound selation, respiratory depression, coma, and death (see Precautions and Drug Interactions).
Reserve concominant prescribing of these drugs for use in patients for whom alternative treatment options are inadequalse. Limit dosages and durations to the minimum required. Follow patients for signs and symptoms of respiratory depression and sectation.

- Indications

 Relief of severe pain.

 Pre-operative medicati
 Support of anesthesia.
 Obstetrical analgesia.

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Obstetrical analgesia.
Containdications
Konow hypersensithity to the preparation.
Pethidine is contraindicated in patients who are receiving monoamine oxidase inhibitors, or those who have recently received such agents. Therapeutic doses of pethidine have occasionally precipitated unpredictable, severe, and may be considered to a pre-existing the predictable severe, and monoamine oxidase inhibitors within the last 14 days. The mechanism of these reactions is undear, but may be related to a pre-existing hyperpherylalaninemia. Some have been and hypotension, and have resembled the syndrome of acute narcotic overdose. In other reactions, the predominant manifestations have been hyperexcitability, convulsions, and hypotension, and have resembled the syndrome of acute narcotic overdose. In other reactions, the predominant manifestations have been hyperexcitability, convulsions, have been hyperexcitability, convulsions, as well as the second of the predominant manifestations are sensitively test should be performed in such patients, a sensitivity test should be performed in a dear and a sensitivity test should be performed in a dear and a sensitivity test should be performed in a dear and a sensitivity test should be performed in a dear and in the patients condition and vist should be performed in a dear and in the patients of condition and vist signs are under careful observation. (Intravenous hydrocortisone or predissolone of intravenous chlorpromazine in those cases exhibiting hypertension and hyperprevaia. The usefulness and selection of in acroic tanaponists in the treatment of these executions of the patients of the performance of the patients of the patient

on narcotic antagonists in the treatment of these reactions is unknown.
Perhidine is also contamidicated in the following cases:

* Recipatory depression, or where repiratory reserves is depleted emphysems, severe chronic bronchitis, kyphosocilosis.

* Head nijnury, raised intracranial pressure (apart from introducing monitoring and diagnostic problems, hypercapina associated with respiratory depression can itself result in elevated intracranial pressure, brain tumour.

* Cardica arrhythmus, especially supraventricular tarbycardis, or pulmorable "Pethidine has a vogglytic action and may confirm a supraventricular response rate.

Pre-ediamonia and services in the ventricular response rate.

Fine-clampsia, eclampsia

- Convulsive states such as status epilepticus, tetanus and strychnine poisoning, due to the stimulatory effects of pethidine on the spinal cord.

- Diabetic acidosis where there is a danger of coma.

- Acute alcoholism or delinium tremens.

- Sewere liver disease, incipient hepatic encephalopathy.

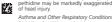
- Patients with a low platelet count, coagulation disorders or receiving anticoagulant teatment.

- Pethidine is not recommended for use in infants under 1 year of age.

Warnings

Warnings
Intravenous Use
Pethidine should not be administered intravenously unless
a narcotic antagonist and facilities for assisted or controlled
respiration are immediately available. When pethidine is
administered parenterally, especially intravenously, the patient
of pethidine is to be given intravenously, the injection should
be administered yet yolowy, perfectly in the form of a diluted
solution. Rapid IV injection of narcotic analgesics, including
pethidine, increases the incidence of adverse reactions;
sever respiratory depression, agina, hypotension, peripheral
circulately collapse, and cardiac arrest have occurred.

circulatory collapse, and caridiac arrest have occurred. Head injury and increased intracranial Pressure. The regardary depressant effects of petitidine and its capacity of elevate cerebropant fluid pressure may be markedly exaggerated in the presence of head injury, other intracranial lesions, or a pre-existing increase in intracranial pressure. Furthermore, narcotics produce adverse reactions which may obscure the clinical course of patients with head injuries, the such patients, petitidine must be used with externer caution and only if its use is deemed assential course of patients with head injuries. Copiodis may obscure the diagnosis and/our mask the clinical Copiodis may obscure the clinical Copiodis may obscure the diagnosis and/our mask the clinical Copiodis may obscure the respiratory depressant profession or petitidine may be markedly evaggerated in the presence of head injury.



of head injury.

Asthma and Other Respiratory Conditions

Pethidine should be used with extreme caution in patients
sundergoing an actual sathmatic fatalet, patients with chronic
obstructive pulmonary disease or cor pulmonale, patients
swing a substantially decreased respiratory reserve, preexisting respiratory depression, hypoxia, or hypercapnia. In
such patients; even unusual threspient doxes of narcotics
ainvay resistance to the point of apnea.
Large doses and/or rapid intravenous administration of
pethidine may produce rapid onset respiratory depression,
apneae, hypotension, peripheral circulatory collegion,
apneae, hypotension, peripheral circulatory collegion,
apneae, hypotension, peripheral circulatory collegion,
administered by intravenous intercitions affects an opioid
antagonist and facilities for controlled or assisted respiration
are available.

are available.

Hypotensive Effect
The administration of pethidine may result in severe hypotension in the postoperative patient or any individual whose ability to maintain blood pressure has been compromised by adepleted blood volume or the concurrent administration of drugs such as phenothlazines or certain administration of drugs such as phenothlazines or certain manufacturent administration of drugs such as phenothlazines or certain administration admin

Drug Dependence

Drug Dependence
Pethidine can produce drug dependence of the morphine tipe and therefore has the potential for being abused. Psychic and physical dependence, and tolerance may develop upon repeated administration of the drug.
Pethidine should be restricted to short-term administration for the relief of severe pain not responding to non-opioid dependent may precipitate withdrawal syndrome, including convulsions.

Use in Pregnancy
Safe use of pethidine prior to the labor period has not been established. Therefore, it should not be used at this time, unless the potential benefits to the mother outweigh the possible hazards to the fetus.

Use in Labor and Delivery

Pethidine crosses the placental barrier and can product depression of respiration and psychophysiologic function in the newborn. Resuscitation may be required. Therefore pethidine is not recommended during labor.

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Other

Cross-tolerance between narcotic analgeiscs can occur. Sezues may result from prolonged exposure or high doses. Sezues may result from prolonged exposure or high doses. The second of the properties of perhaps as a recognised clinical entity which is mainly due to the metabolic in orpethidine. Norpethidine concentrations are enhanced by reduction in renal exception as in the perhaps of the properties of the perhaps of the properties of the perhaps of the properties of perhaps concentrations are perhaps of the properties of perhaps concentrations are perhaps of the properties of perhaps concentrations of the properties of perhaps concentrations of the perhaps of the perhaps of the properties of perhaps concentrated on the exception of the common bile duct difficult. Decreased gastine emphrya psociated with pethidine on the enecessary and then with caution in billiary colic, operations on the billiary tract and acute pancreatitis. Pethidine may render surgical exploration of the common bile duct difficult. Decreased gastine emphrya psociated with pethidine on the energy of the perhaps of the p

Use in Geriatric

Clinical studies of pethidine during product development
did not include sufficient numbers of subjects aged 65 and
were to evaluate age-related differences in safely or efficacy.
Literature reports indicate that genatinc patients have a slower
to be considered to the control of the cont

Adverse Reactions

As with other opioid analgesics, respiratory depression is the major hazard associated with parenteral pethidine therapy.

Other adverse reactions include:

More Common Reactions

More Lommon Reactions
Central Nervous System
Lightheadedness, dizziness, sedation, sweating, bizarre
feelings, disconientation, halucinations, psychosis. Some of
these effects seem to be more prominent in ambulatory
patients and those not experiencing severe pain, and may
be relieved by reducing the dose slightly and lying down.

Less Common Reactions

Caruiovascular
Hypotension, vasodilation, hypertension, tachycardia, bradycardia, gangrene, following inadvertent intra-arterial administration. Dermatological

Dermatological Rash, pruritus, urticaria, erythema, injection site complications e.g., local irritation and induration, fibrosis of muscle tissue with frequent repetition of intramuscular injection.

Gastrointestinal
Decreased gastric emptying.

Genito-urinary Urinary retention and anuria.

Hepatic Increased biliary tract pressure, choledochoduodenal sphincter spasm.

spasm.

Menous System
Pethidine associated neurotoxicity (see Warnings and
Pethidine associated neurotoxicity (see Warnings and
Pethadine), or neuropsychiatric foxicity, i.e., auditory
and visual hallucinations, irritability, agitation, hypomania,
paranoia, delirum and complex parful seizures, vertigo,
dizziness, coma, headache, convulsions or temor, respiratory
dipersession, cold darmy skin, sweating and pallor inaderia injection around a neive trunk may cause sersony-reural
effects, within is usually, but not always transitory.

Neuropsychiatric toxicity, hyperactivity or agitation, depression, mental clouding, dysphoria.

General
Dry mouth, weakness, hypersensitivity.
Pain at injection site; local tissue irritation and induration
following subcutaneous injection (particularly when repeated)
and antidiuretic effect.

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.













Precautions

Some advesse eactions have been reported more frequently after intravenous administration. Pethidina should only be assisted or controlled respiration are available.

Pethidine should always be administered with caution and in reduced dosage, to elderly and debilitated patients and patients with head injuries, severe hepatic or renal impairment, billiary tract disorders, hypothyroidism, aderonortical insufficiency, shock, prostatic hypertrophy, unethral structure and Addision's disorders.

Supraventricular Tachycardia
Pethidine should be used with caution in patients with atrial
flutter and other supraventricular tachycardias because of
a possible vagolytic action which may produce a significant
increase in the ventricular response rate.

Acute Abdominal Conditions
As with other narcotics, pethidine may obscure the diagnosis or clinical course in patients with acute abdominal conditions.

conditions.

Convulsions

Pethidine may aggravate pre-existing convulsions in patients with convulsive disorders.

Convulsions may occur in individuals without a history of convulsive disorders, following use of a higher than recommended disage of the drug.

recommended dosage of the drug.

Other Prezudinos

Gaution is also required in patients exhibiting acute alcoholism, rased intracranial pressure or convulsive disorders.

Serious or life-threatening reactions such as respiratory depression, como, convulsions, possibly due to elevated teels of norpethidine and hypotension have been associated teels of norpethidine and hypotension have been associated teels of norpethidine and thorough the such with custom in patients taking other CNS depressant drugs such as hypototics and seatives including barbiturates and benzodiazegines, phenothizarnes, and other tranquillisers, anaesthetics, alcohol and antidepressants:

sedatives including barbiturates and benzodiazegines, phenothizanes, and other tranquilleses, anaesthetics, alcohol Patients with severe pain may tolerate very high doss of pethidine but may exhibit respiratory depression should their pain suddenly subside.

The elderly demonstrate an increased sensitivity to opicial behavior of the substance of the particular patients. The elderly subgest are levelated planam levels found in elderly subgest.

Adults and the elderly demonstrate an increased sensitivity to opicial the elderly demonstrate an elevation of method and the elderly subgest.

Children elderly elder

In eclampsia the combination of pethidine with phenothiazines has been reported to induce recurrence of seizures rather than stopping them. Therefore, the use of pethidine in eclampsia and pre-eclampsia is not recommended (see Contraindications).

Contraindications). Pethidine, while commonly used for pain relief in obstetrics, is known to pass the placenta and may cause neonatal depression, including respiratory depression. An opioid antagonist such as naloxone may be required to reverse such depression. In the neonate, pethidine is excreted and metabolized at a significantly reduced rate compared to adults.

metabolized at a significantly reduced rate compared to adults.

Orhostatic hypotension has been reported in ambulatory patients administered pethidine. Pethidine should be given with caution and the initial does should be reduced in patients with hypothyroidism or Addison's disease.

Pethidine should be given with caution in patients with prothyroidism or Addison's disease.

As opiate agenists may produce hyperglycemia, this effect should be considered when diabetics require pethidine.

There are conflicting reports about the effect of pethidine on the eye. Some reports state that pethidine and its congeners produce miosis, whereas others indicate that these drugs tend are better defined, intraociular tension should be monitored in patients with glaucoma who received pethidine.

Patients may experience drowiness while receiving pethidine and should therefore be cautioned not to engage in potentially-hazardous activities requiring metal alertness, such as driving a car or operating machinery.

Drug Interactions

Drug Interactions
Onthirdine has been found to interact with the following

drugs:

Barbiturates, Chloral Hydrate, Benzodiazepines:

Pethidine enhances the CNS depressant effects of these drugs. In addition, the combination of pethidine and phenobarbitone may reduce the analgesic effect of pethidine in part due to the increased conversion of pethidine to the toxic metabolite.

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Phenothiazines: CNS toxicity and hypotension including respiratory depression may occur when given together, in eclampsis the combination has been reported to induce recurrence of secures (see Precutions).

Brulyraphenones: Succession way occur when given together, in eclampsis the combination has been reported to induce recurrence of secures (see Precutions).

Brulyraphenones: Succession was to the succession of the succession

increased.

Amphetamines: Concurrent use with amphetamines, which have some MAO inhibiting activity, is not recommended because of the risk of serious reactions similar to those reported with other MAO inhibitions.

Cimetaline: Cimetaline inhibitis metabolism of pethidine and therefore increases plasma concentration.

Anticholinergies: Use of pethidine in prolonged increasing dosage or concomitantly with anticholinergies; may result in neutrotoxicily in patients with renal failure, cancer or sickle cell anemia.

Acyclovir: Plasma concentrations of pethidine and its metabolise, norpethidine, may be increased by skycdow; thus cauthon should be used with concomitant administration.

Ritonavir: Plasma concentrations of the active metabolite norpethidine may be increased by ritonavir, thus concomitant administration should be avoided. Skeletal Muscle Relaxants: Opioid analgesics, including pethidine, may enhance the neuronuscular blocking action of skeletal muscle relaxants and produce an increased degree of respiratory depression.

Diagnostic Interference
Narcotic analgesics may produce increases in plasma amylase and plasma lipase levels; the diagnostic utility of determinations of these enzymes may be compromised for up to 24 hours after the medication has been administered.

Information for Patients

CNS depression is increased when pethidine is coadministered with alcohol, butyrophenones, hypnotics,
sedatives, phenothiazines, tricyclics, antihistamines and
other CNS depressant agents.

Driving and operating dangerous machinery should not be contemplated until the day following the last dose of pethidine.

Dosage and Administration
Parenteral drug products should be inspected visually for
particulate matter and discoloration prior to administration,
whenever solution and container permit.

Relief of Pain

Relief of Pain
Dosage should be adjusted according to the severity of the pain and the response of the patient.

Adults
The usual dosage is 50-100 mg, administered intramuscularly or subcutaneously every 3 or 4 hours as necessary.

or subcutaneously every 3 or 4 hours as necessary.

Children
The usual dosage is 1-1.8 mg/kg body weight, administered intramuscularly or subcutaneously every 3 or 4 hours as necessary. Irrespective of body weight, the adult dose should not be exceeded.

Pre-operative Medication

Incompatibilities

The mising of thiopentone solutions with pethidine results in the formation of a pharmacologically inactive complex. A loss of darity of solution was noted when solutions of a manipulation of the control of the c

Availfectations
Opoid analgesic overdosage usually produces central nenous
system depression ranging from stupor to a profound coma,
system depression ranging from stupor to a profound coma,
system depression ranging from stupor to a profound coma,
stokes respiration and/or cyanosis, cold clammy skin and/or
frypothermia, flacod skeletal muscles, brady-radia and
hypotension. In patients with severe overdosage, particularly
approace, circulatory collapse, cardiac arrest, respiratory arrest
and death may occur.
Complications such as pneumonia, shock and/or pulmonary
oederm may also prove fatal. Although miosis (pupillary
oederma may also prove fatal. Although miosis (pupillary
offerviatives and methadorie, mydrais may occur in terminal
narcosis or severe hypoxia. Overdosage of pethidine may
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Treatment
Incorporation of the control of the contr

or cardiovascular depression.

Note: in an individual physically dependent on opioids, the administration of the usual dose of an opioid antagonist administration of the usual dose of an opioid antagonist of this syndrome will depend on the degree of physical dependence and the dose of antagonist administered. The use of opioid antagonists in such individuals should be avoided if possible. If an opioid antagonist must be used to treat serious respiratory depression in the physically dependent patient, the antagonist should be administered and only 10 to 20% of the usual initial dose administered.

Storage Store below 25°C

Drug Registration No.: 021.04.21091

Manufacturer and Licence Holder

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