Europe's Pregnancy Rates Hold in Move to SET

BY KATE JOHNSON Montreal Bureau

PRAGUE — Europe maintained its in vitro fertilization success rates in 2003 compared with the previous year despite a reduction in multiple pregnancies, according to data presented at the annual meeting of the European Society of Human Reproduction and Embryology.

The European in vitro fertilization (IVF) clinical pregnancy rate was 29.5% per em-

bryo transfer, reported Dr. Anders Nyboe Andersen, coordinator of the European IVF Monitoring (EIM) Consortium.

In comparison, the latest figures (2004) from the United States' Society for Assisted Reproductive Technology (SART) show a 40.6% pregnancy rate per embryo transfer, said California fertility expert Dr. David Adamson in an interview.

In the United States, that figure translates to a live birth rate of roughly 33% per embryo transfer across all age groups (42.5% in women under age 35 years), said Dr. Adamson. The European live birth rate per embryo transfer is not known because the EIM Consortium includes 28 European countries and does not routinely follow IVF patients beyond the ultrasound confirmation of a gestational sac, said Dr. Andersen, also of the University of Copenhagen. However, assuming similar rates of miscarriage in Europe and the United States, the European live birth rate per embryo transfer would be roughly 24%. (In its 2002 World Report on IVF, the International Committee for Monitoring Assisted Reproduction reports an IVF delivery rate of 17% for Europe and 25% for the United States.)

Although this calculation suggests Europe has lower IVF success rates compared with the United States, Europe also reports lower multiple pregnancy rates—but an exact comparison is difficult to make. The latest figures from the EIM Consortium show that 22% of all IVF deliveries in Europe

OPANA® horphone Hydrochloride) Tablets 5 mg and 10 mg

Brief Summary (For full Prescribing Information including Dosage and Administration, refer to package insert.) INDICATIONS AND USAGE OPANA is indicated for the relief of moderate to severe acute pain where the use of an opioid is appropriate.

(Oxymc

CONTRAINDICATIONS OPANA is contraindicated in patients with a known hypersensitivity to oxymorphone known, hypersensitivity to oxymorphone (APANA; in patients with moderate or severe hepatic impairment or in any situation where resuscitative equipment or in unmonitored settings), acute or severe bronchial asthma, hypercarbia, and in any patient who has or is suspected of having paralytic ileus.

DPANA is an opioid agonist and a Schedu I controlled substance with an abus iability similar to morphine.

Respiratory Depression Respiratory depression is the chief hazard of OPANA. Respiratory depression is a particular potential problem in elderly or debilitated patients as well as in those suffering from conditions accompanied by hypoxia or hypercapnia when even moderate therapeutic doses may dangerously decrease pulmonary

OPANA should be administered with extreme caution to patients with conditions accompanied by hypoxia, hypercapnia, or destreased respiratory reserves such as or corpulmonale, severe obesity, sleep agnea syndrome, myxedema, kyphoscoliosis, GNS depression or coma. In these patients, even usual therapeutic doses of oxymorphone may decrease respiratory drive while simultaneously increasing airway resistance to the point of gnea. Alternative non-opoid analgesics should be considered, and oxymorphone should be employed only under carfelul medical supervision at the lowest effective dose in such patients.

Misuse, Abuse and Diversion of Opiolds OPANA contains oxymorphone, an opioid agonist with an abuse liability similar to morphine and a Schedule II controlled substance. Opioid agonists have the potential for being abused and are sought by drug abusers and people with addiction disorders and are subtet to criminal diversion.

Oxymorphone can be abused in a manner similar to other opioid agonists, legal or illicit. This should be considered when prescribing or dispensing oxymorphone in situations where the physician or pharmacist is concerned about an increased risk of misuse, abuse, or

OPANA tablets may be abused by crushing, chewing, snorting or injecting the product. These practices pose a significant risk to the abuser that could result in overdose and death (see WARNINGS: Drug Abuse and

Concerns about abuse, addiction, and diversion should not prevent the proper management of pain.

Healthcare professionals should contact their State Professional Licensing Board or State Controlled Substances Authority for information on how to prevent and detect abuse or diversion of this product.

Abuse Oxymorphone may be expected to have additive effects when used in conjunction with alcohol, other opioids, or illicit drugs that cause central nervous system depression because repristory depression by potension and

Drug Abuse and Addictio

OPANA contains oxymorphone, an opioid with an abuse liability similar to morphine and other opioids and is a Schedule II controlled substance. Oxymorphone, like morphine and other opioids used in analgesia, can be abused and is subject to criminal diversion (see WARNINGS: Misuse, Abuse and Diversion of Opioids

Drug addiction is characterized by a preoccupation with the procurement, hoarding, and abuse of drugs for non-medicinal purposes. Drug addiction is treatable, utilizing a multi-disciplinary approach, but relapse is

Common. "Drug seeking" behavior is very common to addicts and drug abusers. Drug-seeking tactics include emergency calls or visits near the end of office hours, refusal to undergo appropriate examination, testing or referral, repeated claims of loss of prescriptions; tampering with prescriptions, and reluctance to provide prior medical records or contact information for other treating physician(s). "Doctor shopping" (visiting multiple prescriptors) to obtain additional prescriptions is common among drug abusers and people suffering from untreated addiction. Preoccupation with achieving adequate pain relief can be appropriate behavior in a patient with poor pain

Abuse and addiction are separate and distinct from physicial dependence and tolerance. Physicians should be aware that addiction may not be accompanied by concurrent tolerance and symptoms of physical dependence in all addicts. In addition, abuse of opioids can occur in the absence of true addiction and is characterized by misuse for non-medical purposes, often in combination with other psychoactive substances. OPANA, like other opioids, may be diverted for non-medical careful record-keeping of prescribing information, including quantity, frequency, and nerewail recursts is stronout advised. a risk of overdose and trassed with concurrent th alcohol and other parenteral drug abuse d with transmission of d with transmission f the patient, proper endoic re-evaluation and storage are endoic re-evaluation at help to limit abuse patient of the storage are irritability, anxiet has physically dependent anorexis

piolds will also be physically dependent may exhibit respiratory difficulties and drawal symptoms (see **PRECAUTIONS: gnancy** and **PRECAUTIONS:** Labor and very). ractions with Other Central Nervous

ystem Depressants attents receiving other opioid analgesics, eneral anesthetics, phenothiazines, other angulizers, sedatives, hyponicis, or other individent and the sedatives and the sedation oncomitanity with oxymorphone may exhibit n additive CNS depression (see RECAUTIONS: Drug-Drug Interactions). teractive effects resulting in respiratory epression, hypotension, profound sedation, or oma may result if these drugs are taken in ombination with the usual dose of OPANA. lead Injury and Increased Intracranial eventue

In the presence of head injury, intracranial lesions or a preexisting increase in intracranial pressure, the possible respiratory depressant (festos of opioid analgesics and their potential to elevate cerebrospinal fluid pressure (resulting from vascolitation following CO₂ retention) may be markedly exaggerated. Furthermore, opioid analgesics can produce effects on pupillary response and consciousness, which may obscure neurologic signs of further increases in intracranial pressure in patients with head injuries.

Pyponistive Lifect. PANA, like all opioid analgesics, may cause evere hypotension in an individual whose evere hypotension in an individual whose ompromised by a depleted blood volume, or ther concurrent administration with drugs such s phenothiazines or other agents which ompromise vasomotor tone. OPANA, like all pioid analgesics, should be administered with aution to patients in circulatory shock, since asodilation produced by the drug may further aduce cardiac output and blood pressure.

study of OPANA ER (an extended-release mulation of oxymorphone) in patients with patic disease indicated greater plasma ncentrations than those with normal hepatic riction (see CLINICAL PHARMACOLOGY). PANA should be used with caution in patients hmild impairment. These patients should be arted with the lowest dose and titrated slowly lie carefully monitoring for side effects. PANA is contraindicated for patients with oderate and severe hepatic impairment (see DNTRAINDICATIONS, WARNINGS, and DSAGE AND ADMINISTRATION).

Jeneral policid analgesics should be used with caution, specially when combined with other drugs, and should be reserved for cases where the enerfits of opioid analgesia outweigh the nown potential risks of respiratory depression, litered mental state and postural hypotension. JPNA should be used with caution in elderly and debilitated patients and in patients who are nown to be ensitive to central nervous system depressants, such as those with ardiovascular, pulmonary, renal, or hepatic

PANA should be used with caution in the lowing conditions: acute alcoholism; trenocortical insufficiency (e.g., Addison's sease); CNS depression or coma; delirium mens; kyphoscoliosis associated with spiratory depression; myxedema or pothyroidism; prostatic hypertrophy or tehnal stricture; severe impairment of Imonary or renal function; moderate pairment of hepatic function; and toxic

he administration of all opioids may obscure te diagnosis or clinical course in patients with cute abdominal conditions. All opioids may ggravate convulsions in patients with norulsive disorders, and all opioids may duce or aggravate seizures in some clinical stings.

ist/Antagonist Opioid Analgesics ist/antagonist analgesics (i.e., ist/antagonist analgesics (i.e., izocine, nalbuphine, butorphanol, and morphine) should be administered with on to a patient who has received or is ing a course of therapy with a pure opioid

receiving a course of therapy with a pure opioid agonist analgesic such as oxymorphone. In this situation, mixed agonist/antagonist analgesics may reduce the analgesic effect of oxymorphone and/or may precipitate withdrawal symptoms in these patients. Ambulatory Surgery and Post-Operative Ise

OPANA, like other opioids, decreases bowel complication, especially after intra-abdominal surgery with opioid analgesia. Caution should be taken to monitor for decreased bowel motility in post-operative patients receiving opioids. Standard supportive therapy should be implemented.

Use in Pancreatic/Billary Tract Disease OPANA, like other opioids, may cause spasm of the sphincter of Oddi and should be used with caution in patients with billary tract disease, including acute pancreatitis.

Physical dependence is the occurrence of withdrawal symptoms after abrupt discontinuation of a drug or upon administration of an opioid antagonist or mixed opioid agonist/antagonist agent. Tolerance is the need for increasing doses of opioids to maintain a defined effect such as analgesia (in the absence of disease progression or other external factors). The development of physical

during chronic opioid therapy. If OPANA is abruptly discontinued in a physically-dependent patient, an abstinence syndrome may occur. Some or all of the following can characterize this syndrome: restlessness, lacrimation, rhinorrhea, yawning, perspiration, chills, myaligia, and mydriasis. Other symptoms also may develop, including: irritability, anxiety, backache, joint pain, nausea, anorexia, vomiting, diarrhea, or increased blood pressure, respiratory rate, or heart rate, or

> scontinued (see DOSAGE AND DMINISTRATION: Cessation of Therapy). formation for Patients/Caregivers eee full prescribing information for details on

Use in Drug and Alcohol Addiction

or waintenance treatment of opioid addiction. However, the history of an addictive disorder does not necessarily preclude the use of this medication for the treatment of chronic pain. These patients will require intensive monitoring for signs of misuse, abuse, or addiction.

> one is highly metabolized principally ver and undergoes reduction or n with glucuronic acid to form both d inactive products (see CLINICAL COLOGY and PHARMACOKINETICS:

with CNS Depressants concomitant use of other CNS essants including sedatives, hypnotics,

tranquilizers, general aneshtetics, phenothizarises, other opioids, and alcohol may produce additive CNS depressant effects. OPANA, like all opioid analgesics, should be started at 1/3 to 1/2 of the usual dose in patients who are concurrently receiving other central nervous system depressants including sedatives or hyprotics; general aneshtetics, phenothiazines, tranquilizers, and alcohol because respiratory depression, hypotension, and profound sedation or coma may result and titrated slowly as necessary for adequate pain

Additive effects resulting in respiratory depression, hypotension, profound sedation or coma may result if these drugs are taken in combination with the usual doses of OPANA. No specific interaction between oxymorphone and monoamine oxidase inhibitors has been observed, but caution in the use of any opioid in patients taking this class of drugs is

 appropriate.
 When combined therapy with any of the above a medications is contemplated, the dose of one or both agents should be reduced (see WARNINGS and DOSAGE AND

ly Use with Mixed Agonist/Antagon

Agonist/antagonist analgesics (i.e., pentazocine, nalbuphine, butorphanol, or buprenorphine) should not be administered to patients who have received or are receiving a course of therapy with a pure opioid agonist analgesic, such as OPNNA. In this situation, mixed agonist/antagonist analgesics may reduce the analgesic effect of OPANA and/or may precipite withdrawal symptoms.

Other Anticholinergics or other medications with anticholinergic activity when used concurrently with opioid analgesics may result in increased risk of urinary retention and/or severe constipation, which may lead to paralytic ileus.

NS side effects have been sion, disorientation, respiratory n of cimetidine with opioi usal relationship has not been s, Mutagenesis, Impairment

Carcinogeness: No evidence of carcinogenesis: potential was observed in ritas. No evidence of carcinogenein potential was observed in ritas. Mutagenesis: Oxymorphone hydrochloride was not mutagenic when tested in the in vitro mammalian cell chromosome aberration witro mammalian cell chromosome aberration with or without metabolic activative in Nuthout metabolic activative in Nuthout

assays. Impairment of fertility: The dose of axymorphone that produced no adverse effects on reproductive findings in female rats is 0.4times a total human daily dose of 120 mg based on body surface area.

requiratery The safety of using oxymorphone in pregnancy has not been established with regard to possible adverse effects on fetal development. The use of OPANA in pregnancy, in nursing mothers, or in women of child-bearing notential

> veighted against the possible hazards to mother and the child (see A togenic Effects OP inancy Category C

tate of the second sec

twomen. OPANA should be hancy only if the potential potential risk to the fetus. (≥10%) reported at treated with OPANA nausea and pyrexia.

Commorphone hydrochloride administration to female rats during gestation in a pre- and postnatal developmental toxicity study reduced mean litter size (18%) at a dose of 25 mg/kg/day, attributed to an increase in the incidence of stillborn pups. An increase in mg/kg/day. Post-natal survival of the nuns was with 25 mg/kg/day. Low General disorders a decreased postnatal conditions: sweating in d in pups born to Nervous system dis male rats given a dose vertigo), somnolence, dose is -2 times a total sedation 20 mg, based on body Psychiatric disorders:

> disorders: hypoxia al physical nay occur. birst days irritability, with opioid treatment that were oppaNe tube isorders: with opioid treatment that were oppaNe tube isorders.

> > Abdominal pain, agitation, allergic reactions vision blurred, bradycardia, central nervou system depression, clamminess, appetit decreased, dehydration, depressed level c consciousness, depression, dermattili diarnhoea, difficult micunition, disorientation dyspepsia, dysphoria, dyspnea, edeme euphonic mood, fatigue, feeling jittery, flushing hallucination, hot flashes, hypersensitiviti hypertension, ileus, insornia, lethargy, marti

impairment, mental status changes, moisis nervousness, oxygen saturation decreased aphlataion, postural hypotension, respiratory depression, respiratory distress, respiratory rate decreased, restlessness, syncope, urinary retention, urticaria, visual disturbances weakness, and weight decreased.

KDOSAGE s and Symptoms

uite overdosage with OPANA is aracterized by respiratory depression (a crease in respiratory rate and/or tidal ume, Cheyne-Stokes respiration, cyanosis), reme somnolence progressing to stupor or ma, skeletal muscle flaccidity, cold and mmy skin, constricted pupils, and metimes bradycardia and hypotension. In vere overdosage, apnea, circulatory lagse, cardiac artest, and death may occur. ANA may cause miosis, even in total kress. Pinpoint pupils are a sign of opioid ardose but are not pathognomonic (e.g., nitne lesions of hemorrhagic or ischemic gin may produce similar findings). Marked divaisis rather than miosis may be seen with

System).

The field field of OPAGA Overuosage, imany attention should be given to the rehassisted or controlled version and a source of easures (including oxygen and vasopressors) ould be employed in the management of crulatory shock and pulmonary edema companying overdose as indicated. Cardiac rest or arrythmias may require cardiac assage or defibrillation. Elimination or acuation of gastric contents may be creasing in order to eliminate unabsorbed ug. Before attempting treatment by gastric phyling or activated charcoal, care should be ken to secure the airway.

he opioid antagonist naloxone hydrochloride a specific antidote against respiratory pression, which may result from overdosage r unusual sensitivity to opioids including PANA. Therefore, an appropriate dose of aloxone hydrochloride should be administered sual initial adut dose 0.4 mg-2 mg) preferably

the efforts at respiratory resuscitation, alimetene is an alternative pure opioid ntagonist, which may be administered as a pecific antidote to respiratory depression sulting from opioid overdose. Since the uration of action of OPANA may exceed that of the antagonist, the patient should be kept nder continued surveillance and repeated oses of the antagonist should be administered coording to the antagonist should be administered ocording to the antagonist should be administered or antagonist.

CLINICA

6.5%

2.2%

s Reported in All Clinica

patients receiving OPANA, oploid points should not be administered in the nee of clinically significant respiratory or latory depression. They should be nistered cautiously to persons who are m, or suspected to be, physically ndent on any opioid agonist including VA. In such cases, an abrupt or complete sal of opioid effects may precipitate an a bastinence syndrome. In an individual ically dependent on opioids, administration the usual does of the antagonist will pitate an acute withdrawal syndrome produced depend on the degree of physical nidence and the dose of the antagonist nistered. If respiratory depression is ciated with muscular rigidity, nistration of a neuromuscular blocking

dministration of a neuromuscular blocking gent may be necessary to facilitate assisted or ontrolled ventilation. Muscular rigidity may iso respond to opioid antagonist therapy. AFETY AND HANDLING IPANA contains oxymorphone, which is a ontrolled substance. Oxymorphone is

controlled under Schedule II of the Controlled Substances Act. Oxymorphone, like all opioids, si lable to diversion and misuse and should be andled accordingly. Patients and their families should be instructed to flush any OPANA ablets that are no longer needed.

DPANA may be targeted for theft and diversion. teathcare professionals should contact their state Medical Board, State Board of Pharmacy, r State Control Board for information on how o detect or prevent diversion of this product. Nore at 25°C (77°F); excursions permitted to 5°-30°C (63°-66°F). [See USP Controlled

Room Temperature]. Dispense in tight container as defined in USP, with a child-resistant closure

Rx Only

DEA Order Form Required.

nts Endo Pharmaceuticals In

anufactured by: vartis Consumer Health Inc.

Copyright © Endo Pharmaceuticals Inc. 2006 413242 E1/Rev. July, 2006 were twins and 1.1% were triplets (down from a twin rate of 23% and a triplet rate of 1.3% the previous year). However, given the fact that the consortium does not keep a final tally of all IVF deliveries, its figure on multiple birth rates can only be an estimate. In comparison, the United States records multiple pregnancies, not multiple births (which tend to be lower because of the high rate of miscarriage) and last year reported a twin pregnancy rate of 27% and a 4.5% rate of triplet and higher-order pregnancies, according to Dr. William Gibbons, president of SART.

Europe's reportedly lower multiple pregnancy rates are attributed to its transition toward single embryo transfer (SET), and a continuing trend toward the transfer of fewer embryos. Overall, the 28 European countries in the EIM Consortium reported a 16% rate of SET in their IVF cycles, said Dr. Nyboe Andersen. This is in contrast to an *elective* SET rate of 1.2% in the United States, according to SART—although the overall SET rate is presumed to be higher, since other U.S. patients receive SET nonelectively because they have only one good embryo to transfer. According to the 2002 World Report on IVF, the average number of embryos transferred in European patients was 2.2. vs. 2.9 in the United States.

Guidelines released at the end of 2004

from the American Society for Reproductive Medicine and SART recommended for the first time that SET should be considered "in patients with the most favorable prognosis" (Fertil. Steril. 2004;82:773-4), and consequences of those guidelines may be reflected in the 2005 data. However, SET is a hard sell in the United States compared with Europe, because while many European countries provide some coverage for IVF treatment, most U.S. patients pay for it themselves.

"There is a certain amount of fear among [U.S.] centers that if they do SET, they may see a dramatic fall in pregnancy rates, which in turn may cause patients to

OPANA® ER (Oxymorphone Hydrochloride) Extended-Release Tablets 5 mg, 10 mg, 20 mg and 40 mg **any** Iel Summary (For full Prescribing Information cluding Dosage and Administration, and atient Information, refer to package insert.) WARNINE: PANA ER contains oxymorphone, which is 5 chedule II controlled substance, with an busse liability similar to other opioid anglesics.

XXYmorphone can be abused in a manner liniar to other opioid agonists, legal or licit. This should be considered when rescribing or dispensing OPANA ER in ituations where the physician or harmacist is concerned about an ncreased risk of misuse, abuse, or liversion.

ranka Ex is an extended-release of a rimulation of oxymorphone indicated fo ie management of moderate to severe pai hen a continuous, around-the-clock opioi nalgesic is needed for an extended perio

f time. PANA ER is NOT intended for use as a pri naigesic. PANA ER TABLETS are to be swallowe hole and are not to be broken, chewed issolved, or crushed. Taking broken howed dissolved or crushed OPANA EF

ABLETS leads to rapid release and bsorption of a potentially fatal dose of xymorphone. atients must not consume alcoholi everages, or prescription or non

rescription medications containing lcohol, while on OPANA ER therapy. Thi o-ingestion of alcohol with OPANA ER ma esult in increased plasma levels and otentially fatal overdose of oxymorphone.

DICATIONS AND USAGE WANA ER is indicated for the relief of moderate to vere pain in patients requiring continuous, und-the-clock opioid treatment for an extended iod of time. MANA ER is not intended for use as a pro-

ANA ER is not intended for use as a p algesic.

ANA ER IS NOT Indicated for pain in the neclate post-operative period (12-24 hours owing surgery) for patients not previously taking pids because of the risk of oversedation and piratory depression requiring reversal with opioid agonists.

ANA ER IS not indicated for pain in the posterative period if the pain is mild or not expected persist for an extended period of time.

MNA ER is contraindicated in patients with a town hypersensitivity to coymorphone tochoride, morphine analogs such as codeine, any of the other ingredients of OPNNA ER; in airents with moderate or severe hepatic airment or in any situation where oploids are traindicated such as patients with respiratory pression (in the absence of resuscitative airment or in unmonitored settings), acute or reer bronchial astima, hypercarba, and in any

S. NAN ER is not indicated for pain in the hediate post-operative period (the first 12:24 rs following surgery), or if the pain is mild, or not extend to persist for an extended period of time. NAN ER is only indicated for post-operative use e patient is already receiving the drug prior to ary or of ithe post-operative pain is expected to noderate or severe and persist for an extended of of time. Physicians should individualize timent, moving from parenteral to oral lowers as anomorate. (See American Pain oral pain and parenteral to oral lowers as anomorate. (See American Pain et al. (See American Pain).

Retry guidelines). RNINGS ANA ER TABLETS are to be swallower ole, and are not to be broken, chewed shed or dissolved. Taking broken, chewed shed or dissolved OPANA ER TABLET3

It lead to the rapid release and absorption potentially fatal dose of doxymorphone. Ients must not consume alcoholic beverages, rescription or non-prescription medications taining alcohol, while on OPANA ER therapy, co-ingestion of alcohol with OPANA ER may ult in increased plasma levels and a untially fatal overdose of doxymorphone.

PANA ER contains oxymorphone, an opioi onist similar to morphine, and is a Schedule I ntrolled substance. Opioid agonists have the tential for being abused and are sought by druu users and people with addiction disorders and a cubicat to certain dimension.

ymorphone can be abused in a manner similar to ter opioid agonists, legal or illicit. This should be sidered when prescribing or dispensing OPANA i in situations where the physician or pharmacist concerned about an increased risk of misuse, the product of the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician of the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or pharmacist the physician or pharmacist of the physician or physician or pharmacist of the physician or physician or

PANA ER tablets may be abused by crushing, lewing, snorting or injecting the product. These actices will result in the uncontrolled delivery of e opioid and pose a significant risk to the abuser at could result in overdose and death (see **ARNINGS and WARNINGS: Drug Abuse and**

ddiction). oncerns about abuse, addiction, and diversion nould not prevent the proper management of pain. ealthcare professionals should contact their State rofessional Licensing Board or State Controlled bistances Authority for information on how to revent and detect abuse or diversion of this product. **Iteractions with Alcohol and Drugs of Abuse:** wymorphone may be expected to have additive fields when used in conjunction with alcohol, other itests when used in conjunction with alcohol, other pression, hypotension, and prodund sedition or ma may result. Any ivio study examined the cavailability of a single dose of 40 mg of OPANA R in healthy, fasted volunters. The results nowed that the oxymorphone mean AUC was 13% oper (not statistically significant) after cofministration of 240 mL of 40% alcohol. The AUC sessentially unaffected in subjects following the

be an imitation of the or the term of term of

verage by 31% and up to 260% in individual bjects. Following the concomitant administration 240 mL of 4% ethanot, the C_{max} increased by 7% on verage and as much as 110% for individual subjects. **rug Abuse and Addiction:** Controlled bistance: OPANA ER contains oxymorphone, an oloid with an abuse liability similar to morphine and her opioid agonists and is a Schedule II Controlled bistance: OPANA ER and other opioids used in algesia, can be abused and as subject to algesia and Diversion of Opioids). Tug addiction is characterized by a preoccupation tim the procurement, hoarding, and abuse of drug r non-medicinal purposes. Drug addiction is eatable, utilizing a multi-disciplinary approach, but lapse is common.

and detention of the service of the inductor emergency calls or visits hear the end of office hours, refusal to undergo appropriate examination, testing or referral, repeated claims of loss of prescriptions, tampering with prescriptions and reluctance to provide prior medical records or contact information for other treating physician(s). "Doctor shopping" (visiting multiple prescriptions) to obtain additional prescriptions is common among drug abusers and people suffering from untreated addiction. Preoccupation with achieving adequate pain relief can be appropriate behavior in a patient.

Abuse and addiction are separate and distinct from physical dependence and tolerance. Physicians should be aware that addiction may not be accompanied by concurrent tolerance and symptoms of physical dependence in all addicts. In addition, abuse of opiolds can occur in the absence of true addiction and is characterized by misuse for non-medical purposes, often in combination with other psychoactive substances. OPANA ER, like Careful record-keeping of prescribing information, including quantity, frequency, and renewal requests

poper assessment of the patient, proper scribing practices, periodic re-evaluation of rapy, and proper dispensing and storage are propriate measures that help to limit abuse of oid duce

Infants born to mothers physically dependent on opioids will also be physically dependent and may exhibit respiratory difficulties and withdrawal symptoms (see **PRECAUTIONS: Usage in**

regulatory and recover nove. Labor and elivery). espiratory Depression: Respiratory depression the chief hazard of OPANA ER. Respiratory opression is a particular potential problem in derly or debilitated patients as well as in tose uffering from conditions accompanied by hypoxia rypercaprile when even moderate therapeutic

a may bandgebeday decletas paintoning ation. NA ER should be administered with extreme on to patients with conditions accompanied by wai, hypercapnia, or decreased respiratory ver such as: asthma, chronic obstructive onary disease or cor pulmonale, severe ity, sleep apnea syndrome, myxedema, oscollosis, CNS depression or coma. In these nts, even usual therapeutic doses of torphone may decrease respiratory drive while laneously increasing airway resistance to the

It of apress relief leader train-ophone alregistic did be considered, and cowmonplones should be loyed only under careful modical supervision at lowest effective does in such patients. reactions with Other Central Nervous System ressants: Patients receiving other opioid gesics, general anesthetics, phenothiazines or i tranquilizers, sedatives, hypnotics, or other

In expiration of the experimental respiration pression, hypotension, profound sedation, or corn as **PRECAUTIONS: Drug-Drug Interactions**). and **Injury and Increased Intracraniressure:** In the presence of head injur racranial lesions or a preexisting increase

pressant effects of opioid analgesics and the tential to elevate cerebrospinal fluid press sulting from vasodilation following CO₂ retenti ay be markedly exaggerated. Furthermore, opi algesics can produce effects on pupili

Index and constructions, which may observe the logic signs of further increases in intracranal sure in patients with head injuries. othersive Effect: OPANA ER, like all opioid gesics, may cause severe hypotension in an indual whose ability to maintain blood pressure been compromised by a depleted blood me, or after concurrent administration with ps such as phenothiazines or other agents homomorphic vecember to conclude a concluster administration with performance and the component of the component of the component vecember to be component of the component of the component vecember to be component of the component vecember to be component of the component of the component vecember to be component of the component vecember to be component of the component

 all opioid analgesics, should be administered th caution to patients in circulatory shock, since sodilation, produced by the drug may further duce cardiac output and bloch pressure.
 epatic Impairment: A study of OPANA ER in itents with hepatic disease indicated greater asma concentrations than those with normal patier. Innection (see CLINICAL

th caution in patients with mild impairment. Th atients should be started with the lowest dose rated slowly while carefully monitoring for fects. OPANA ER is contraindicated for pati th moderate and severe hepatic impairment I ONTRAINDICATIONS, WARNINGS, OSAGE AND ADMINISTRATION)

ECAUTIONS merall-Opioid analgesics should be used with ution especially when combined with other drugs, d should be reserved for cases where the nefits of opioid analgesia outweigh the known ential risks or respiratory depression, altered ntial state and postural hypotension. OFANA ER uid be used with caution in elderly and

Jepressants, such as those with cardiovascular, julimonary, renal, or hepatic disease. DPANA ER should be used with caution in the ollowing conditions: acute alcoholism; adrenocortical insufficiency (e.g., Addison's disease); CNS depression or coma; delirium

mens; kyphoscoliosis associated with respiratory pression; myxedema or hypothyroidism; prostatic pertrophy or urethral stricture; severe impairment pulmonary or renal function; moderate pairment of hepatic function; and toxic psychosis.

The administration of oxymorphone may obscur the diagnosis or clinical course in patients with acute abdominal conditions. Oxymorphone ma aggravate convulsions in patients with convolsiv disorders, and all ophoids may induce or aggravat additional control of the second second and ORNAA ER is intended for use in patients with require more than several days continuou treatment with an ophoid analgesic. Ambulatory Surgery and Post-Operative Use ORNAA. ER is not indicated for pre-emptive nalgesis (administration pre-operative) for the management of post-operative pain). OPANA ER is not indicated for pain in th immediate post-operative period (12-24 hour options) because of the risk of oversedation an oppiators because of the risk of oversedation an expiratory depression requiring reversal with opioi

Antagonists. OPANA ER is not indicated for pain in the pos operative period if the pain is mild or not expecte to persist for an extended period of time. OPANA ER is only indicated for postoperative us

in the patient if the patient is already receiving it drug prior to surgery or if the postoperative pain expected to be moderate to severe and persist an extended period of time. Physicians sho individualize treatment, moving from parenteral oral analgesics as appropriate (see American Pe Society guidelines). Patients who are already receiving OPANA FR.

part of ongoing analgesic therapy may be safely continued on the drug if appropriate dosage adjustments are made considering the proodure other drugs given, and the temporary changes in physiology caused by the surgical intervention (see DOSAGE AND ADMINISTRATION). OPNA ER, like other opioids, decreases bowen public. Like is a common pred-preventies

mounty, neus is a common post-operati complication, especially after intra-abdomir surgery with opioid analgesia. Caution should taken to monitor for decreased bowel motility post-operative patients receiving opioids. Stands supportive therapy should be implemented. Use in Pancreatic/Biliary Tract Disease: OPAN ER, like other opioids, may cause spasm of t

sphincter of Oddi and should be used with cai in patients with bilary tract disease, including a pancreatitis. Physical Dependence and Tolerance: Physical Dependence is the occurrence of withfur symptoms after abrupt discontinuation of a dru upon administration of an opular angoing angoing mixed opioid agonist/antagonist agent. Toleranc

 a defined effect such as analgesia (in the abse of disease progression or other external fact The development of physical dependence tolerance is not unusual during chronic op therapy.
 If OPANA ER is abruntly discontinued is

physically-dependent patient, an abstin syndrome may occur. Some or all of the follo can characterize this syndrome: restless lacrimation, rhinorrhea, yawning, perspira chills, myalgia, and mydriasis. Other symptoms may develop, including: irritability, an may develop, including: irritability.

dia increased blood pressure, respiratory rate, or hear yrate. In general, OPANA ER should not be abrupt accontinued. However, OPANA ER, like oth opoids, can be safely discontinued without th yr development of withdrawal symptoms by slow tapering the daily dose (see DOSAGE AN

Information for Patients/Caregivers: (See fi prescribing information for details on information fi patients). Use in Drug and Alcohol Addiction: OPANA E is not approved for use in detoxification maintenance treatment of opioid addictio However, the history of an addictive disorder dou not necessarily preclude the use of this medicatic

require intensive monitoring for signs of misu abuse, or addiction. **Drug-Drug Interactions:** Oxymorphone is hig metabolized principally in the liver and under yr reduction or conjugation with glucuronic acid form both active and inactive metabolites (PHARMACOKINETICE: Metabolitism).

Iai Use win CNS depressants: including sedatives of other CNS depressants including sedatives in hypotoics, tranquilzers, general anesthetics ophenothiszines, other opicids, and alcohol ma produce additive CNS depressant effects. OPAN. E.R. like all opicid analgesics, should be started a occurrently receiving other central nervous system.

Ilary depressants including sedatives or hypototics, ure general anesthetics, phenothiazines, trangulizers, anial and alcohol because respiratory depression, hypotension, and profound sedation or coma may result, and titrated slowly as necessary for a dequate pain relief. Sure Additive effects resulting in respiratory depression, dypotension, profound sedation or coma may result

if these drugs are taken in combination with the usual doses of OPANA ER. No specific interaction between oxymorphone and monoamine oxidase inhibitors has been observed, but caution in the use of any opioid in patients taking this class of drugs is any opioid in patients taking this class of drugs is

When combined therapy with any of the aboumedications is contemplated, the dose of one of both agents should be reduced (see WARNING and DOSAGE AND ADMINISTRATION). Interactions with Mixed Agonist/Antagonis Opioid Analgesics: Agonist/antagonist analgesic

(i.e., pertazócine, nalbuphine, butorphano), dbuprenorphine) should not be administerec side patients who have received or are receivin ents course of therapy with a pure opioid ago (see analgesic, such as OPANA ER, In this situal mixed agonis/antagonist analgesiss may red the analgesic effect of OPANA ER and/or precipitate withdrawal symptoms.

anticholinergic activity when used concurrent opioid analgesics may result in increased morum uniary retention and/or severe constipation, altered In addition, CNS side effects have been re vand (conflusion, disorientation, respiratory deor

annea, seizures) following coadministration or m cimetidine with opioid analgesics; no clear-cu ar, cause and effect relationship was established. Carcinogenesis, Mutagenesis, Impairment o ertification of the second of the second of the carcinogenesis of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertification of the second of the second of the ertifica

evidence of carcinogenic potential was observed mice. Mutagenesis: Oxymorphone hydrochloride was no mutagenic when tested in the *in vitro* bacteri reverse mutation assay (Ames test) a concentratione of 6720 uvideta or in a nu vitro performed with human peripheral blood imphocytes at concentrations: 5500 ug/m with or without metabolic activation. Oxymorphone hydrochloride tested positive in both the rat and mouse *in vivo* micronucleus assays. Impairment of fertility: The dose of oxymorphone that produced no adverse effects on reproductive findings in female rats is 0.6-160 the human dose of 40 mg every 12 hours on a body surface area basis. **Pregnancy:** The safety of using oxymorphone in pregnancy has not been established with regard to possible adverse effects on teat development. The use of OPANA EN in pregnancy, in nursing mothers; on mosten bonkerse of the dring regures had against the possible hazards to the mother and the child (see **PRECAUTIONS)**. Teratogenic Effects: *Pregnancy*.

> e inanumiaturis at any Uoses evaluated coning (jopmental toxicity studies in rats (<25) g/day) or rabbits (<50 mg/kg/day). e are no adequate and well-controlled studies egnant women, OPAINA ER should be used go pregnancy only if the potential benefit es the potential risk to the fetus. Feratogenic Effects: Oxymorphone torbion in a pre- and postnatal developmental

nyidtöcnioniae administration to temäle rats Quirtig gestation in a pre- and postmalia developmental toxichy sucky reduced mean litter size (18%) at a dose of 25 mykgiday, attibutet to an increased incidence of stillicom pups. An increase in neoratal death occurred at 25 mykgiday, Post-ratal survival of the pups was reduced throughout wearing tolowing treatment of the date Mit 25 mykgiday. Livelyft rapin occurred in pups born to oxympophonerelated famale rats given a dose of 25 mg/kgiday. This dose is -3-fold higher than the human dose of 40 mg every 12 hours on a bodi surface area basis. Prolonged use of opioid analgesis during pregnancy may cause feta-lenostatal physical dependence. Neonatal withdrawal may occurs life and may include convulsions, irritability, corxessive irring, trefexes.

fever, vomiting, diarrhea, sneeżing, yawning, and increased respiratory rate. Labor and Delivery: Opiolác cross the placenta and may produce respiratory depression and psycho-physiologic effects in neonates. OPANA ER is not recommended for use in women during and immediately prior to labor, when use of shorter acting analgesics or other analgesic techniques are more appropriate. A specific poliod antagonst, such

reversal of opioid-induced respiratory depression in the neonate. Nursing Mothers: It is not known whether oxymorphone is excreted in human milk. Becaus many drugs, including some opioids, are excrete in human milk, caution should be exercised whe OPANA ER is administered to a nursing womar Ordinarily, nursing should not be undertaken whili a patient is receiving oxymorphone because of th

lossibility of sedation and/or respiratory depression the infant. **vediatric Use:** Safety and effectiveness of OPANA R: in pediatric patients below the age of 18 years ave not been established. **3eriatric Use:** OPANA ER should be used with aution in elderly patients. The plasma levels of wmornohone are about 40% hindher in elderly (256

oxymorphone are about 40% higher in elderty (2b) years of age) than in younger subjects (see CLINICAL PHARMACOLOGY). Elderly patients should initially receive smaller starting doese of oxymorphone and dose titration should proceed cautiously. Of the total number of subjects in clinical studies of

OPANA ER, 27 percent were 65 and over, while 9 percent were 75 and over. No verall differences in effectiveness were observed between these subjects and younger subjects. There were several adverse events that were more frequently observed in subjects 55 and over compared to younger subjects. These adverse events included dizziness, somnelence, contusion, and nausea.

The part with the set of the set

startistic cautiously with lower doses of OPANA EF and titrated showly while carefully monitored for side effects (see DOSAGE AND ADMINISTRATION). Gender Differences: When normalized for body weight, gender differences were not observed (see CLINICAL PHARMACOLOGY). In clinical studies the overall incidence rates for one or more adverse events were slightly higher among females than males for both OPANA ER subjects and placeb subjects.

dverse Reactions Reported in Placebo controlled Trials: The following table lists advers eactions that were reported in at least 2% of atients in placebo-controlled trials (N=5) dverse Reactions Reported in Placebo

 Controlled Clinical Trials with Incidence 32%

 Patients Receiving OPANA ER.

 IndeDRA Preferred
 OPANA ER.

 Index Index Interview
 33.1%

 Index Interview
 33.1%

 Index Interview
 7.6%

 Index Interview
 7.6%

 Vorniting
 15.6%

 Interview
 15.2%

 Vorniting
 15.6%

 Madache
 12.2%

 Of Sweating increased
 8.6%

 Insomnia
 4.3%

 Adominate
 4.3%

 Apoteite decreased
 2.9%

 Apoteite apoint
 2.5%

Appetite decreased 2.9% 0.4% Abdominal pain 2.5% 1.5% Adverse Reactions Reported in All Clinical Trials: A total of 2011 patients were treated with OPANA ER in the Phase 2/3 controlled and opentabel clinical trials. The clinical trials consisted of

post surgical pain. The adverse reactions are presented in th following manner: most common, common, an less common adverse reactions. reported at least once by patients treated with OPANA ER in the clinical trials were nausea, constipation, dizziness (exc. vertigo), vorniting, purtuiss, somolence, headache, sweating increased, and sedation. The common (21% - <10%) adverse drug reactions reported at least once by patients treated with OPANA ER in the clinical trials organized by MedDRA's (Medical Dictionary for Regulatory Activities) System Organ Class were: Eye disorders: vision blurred Gastrointestinal disorders: diarrhea, abdominal

norditions: dry mouth, appetite decreased, fatigu thargy, weakness, pyrexia, dehydration, weight ecreased, edema lervous system disorders: insomnia

disorientation, restlessness, nervousness, depression

dyspnea ' *Vascular disorders:* flushing and hypertension Other less common adverse reactions known with opiolid treatment that were seen <1% in the OPANA ER trials include the following in alphabetical order. Adominal distention, aglatation, allergic reactions, bradycardia, central nervous system depression, radgenersed level of consciousness, dermatits, difficult micturition, dysphoria, euphoric mood, feeling ittery, hallocitantion, hot flashes, hypersensitivity, hypotension, hypoxia, lieus, mental mairment, metal status changes, miosis, oxygen saturation decreased, palpitation, postural hypotension, respiratory depression, respiratory distress, respiratory drate decreased, syncope, tadrycardia, uriticari, and visual

OVERDOSAGE Signs and Symptoms: Acute overdosage with OPANA ER is characterized by respiratory depression, (a decrease in respiratory rate and/or tidal volume, Cheyne-Stokes respiratory rate and/or setreme somolence progressing to stupor or coma, skeletal muchel faccidity, cold and dammy sin, constricted pupils and sometimes bradycardia and hypotension. In severe overdosage, apnea cirulationy collanse, cardiar, arrest and (death may cirulationy collanse, cardiar, arrest and (death may

ccur. PANA ER may cause miosis, even in total arkness. Pinpoint pupils are a sign of opioid verdose but are not pathognomonic (e.g., pontine sions of hemorrhagic or ischemic origin may roduce similar findings). Marked mydriasis rather an miosis may be seen with hypoxia in overdose tuations (see CLINICAL PHARMACOLOGY:

situations (see CLINICAL PHARMACCLOCY: Central Nervous System). Treatment: in the treatment of OPANA ER overdosage, primary attention should be given to the re-establishment of a patient airway and institution of assisted or controlled ventilation. Supportive measures (including oxygen and management of circulatory social and and and definition of a site of a controlled ventilation. Supportive measures (including oxygen and management of circulatory social and and definition of a site of a controlled ventilation. Supportive measures (including oxygen and definition) of astric contents may be necessary in order to eliminate unabsorbed drug. Before attempting reatment by gastric emptying or activated charcoal, care should be taken to secure the airway. The opoid antagonist nakonch hydrochoirde is a specific antidote against respiratory depression, which may result from overdosage or unusual sensitivity to opiotis including OPANA ER. Theretoblich and the factor of the site of the site attreas of a bid be taken to secure the airway. The opiotia dnagonist nakonches d' nailo initial adult dose 0.4 mg2 mg) preferably by the intravenous roue and similaneously with efforts at respiratory resuscitation. Nalmefene is an alternative puer opioid antagonist, which may be administered as a specific antidote to respiratory depression resulting from opioid overdose. Since the duration of action of OPANA ER may exceed of the antagonist, should be administered according of the antagonist should be administered according

In patients receiving OPANA ER, opioid antagonists should not be administered in the absence of clinically significant respiratory or circulatory depression secondary to OPANA ER, overdose. They should be administered cautiously to persons who are known, or suspected to be, physically dependent on any opioid agonist including OPANA ER. In such cases, an abrupt or complete reversal of opioid effects may precipitate an acute dependent on opioids, administration of the usual dose of the antagonist will precipitate an acute withdrawal syndrome. The severity of the withdrawal syndrome produced will depend on the degree of the antagonist administered. If respiratory depression is associated with muscular rigidity, administration of a neuromuscular blocking agent may be necessary to inclinate assisted or controlled venilation. Muscular

an SAFETY AND HANDLING

controlled substance. Ox/morphone is controlled under Schedule II of the Controlled Substances Act. Oxymorphone, like all opioids, is liable to diversion and misuse and should be handled accordingly. Patients and their families should be instructed to flush any OPANA ER tablets that are no longer needed.

OPANA ER may be targeted for theft and diversion Healthcare professionals should contact their State Medical Board, State Board of Pharmacy or State Control Board for information on how to detect on prevent diversion of this product

store at 25°C (77°F); excursions permitted to 15°-0°C (59°-86°F). [See USP Controlled Room emperature]. Sispense in tight container as defined in the USP, *i*th a child-resistant closure (as required).

CAUTION DEA Order Form Required. Manufactured for: Endo Pharmaceuticals Inc. Chadds Ford, Pennsylvania 19317 Manufactured by:

TIMERx[®]-N is a registered Trademark of Penw Pharmaceuticals Co., Danbury, Connecticut and used herein pursuant to a license agreem

en Penwest and Endo Pharmaceuticals. byright © Endo Pharmaceuticals Inc. 2006 413542 E1/July, 2006 go elsewhere for treatment," said Dr. Bradley Van Voorhis, of the University of Iowa Hospitals and Clinics in Iowa City.

Indeed, the world's first randomized trial comparing SET with double embryo transfer (DET) in an unselected group of women did much to fuel such fears (Hum. Reprod. 2006;21:338-43). Investigators in the Netherlands found that although SET reduced multiple pregnancies in unselected patients, it also significantly reduced the overall pregnancy rate compared with DET (21.4% vs. 40.3%), while in a more select group of patients (younger and with at least one good-quality embryo), the pregnancy rates in the two groups did not differ significantly (33% for SET vs. 30% for DET).

Building on this experience, Dr. Van Voorhis' clinic implemented a mandatory SET policy 2 years ago for select women with a good prognosis and high risk for multiple pregnancy, and noted no decline in success rates.

But achieving this kind of success for SET—maintaining pregnancy rates while reducing the number of embryos transferred—involves a complex art of balancing safety and success, choosing which patients can receive fewer embryos, and choosing which embryos are most likely to

SET 'is not something that works for all patients, and that really needs to be ... emphasized. It's not possible to make a single rule that applies to all patients.'

nancy, said Dr. Adamson. "SET is a very good and important strategy, and I think that we need to do more of it in the United States in order to reduce the rate of multiple pregnancies,' he said. "But this is not

result in a preg-

something that works for all patients, and that really needs to be strongly emphasized. It's not possible to make a single rule that applies to all patients; we certainly do not believe that in the United States. ... We don't believe that regulation by the government which tells patients how they should make reproductive choices is the appropriate thing to do."

That type of government regulation is largely responsible for Europe's high SET rate. The free IVF treatment provided by many European countries comes with legislative strings attached that mandate SET or severely restrict the number of embryos placed in certain women. European physicians have feared that this approach could limit pregnancy, and this is generally assumed to be one of the reasons for Europe's lower overall IVF pregnancy rate.

But certain European countries such as Sweden appear to have mastered the art of

using SET effectively. "In Sweden we have shown no overall decline in pregnancy

rates," said Dr. Karl Nygren, chair of the

EIM Consortium. "It has been possible to

maintain the pregnancy rate even with a

dramatic shift to 70% SET in Sweden,

and we have reduced our twin pregnancy

rate to 5%," Dr. Nygren said. The consortium reported a Swedish pregnancy rate of roughly 34% per embryo transfer, which is significantly lower than the U.S.

rate of 40.6%