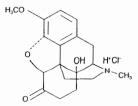
OxyContin™ 10 mg Tablets CayContin™ 20 mg Tablets OxvContin™ 40 mg Tablets

(Oxycodone Hydrochloride Controlled-Release)

WARNING: May Be Habit Forming A4909-811

DESCRIPTION

OxyContin "(oxyCodone hydrochloride controlled-release) tablets are an opioid analgesic sup-plied in 10 mg, 20 mg, and 40 mg tablet strengths for oral administration. The tablet strengths describe the amount of oxyCodone per tablet as the hydrochloride salt. The structural formu-la for oxyCodone hydrochloride is as follows:



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MW 351 83

The chemical formula is 4, 5-epoxy-14-hydroxy-3-methoxy-17-methylmorphinan-6-one

hydrochloride. Oxycodone is a white, odorless crystalline powder derived from the opium alkaloid, fibebaine Oxycodone hydrochloride dissolves in water (1 g in 6 to 7 mL). It is slightly soluble in alco-hor (loctanol water partition coefficient 0 7). The tablets contain the following inactive ingredi-ents: ammonio methacrylate copolymes, hydroxypropyl methylcellulose, lactose, magnesium stearate, povidone, red iron oxide (20 mg strength tablet only), staryl alcohol, talc, titanium dioxide, triacetin, yellow iron oxide (40 mg strength tablet only), and other ingredients.

CLINICAL PHARMACOLOGY

Central Nervous System
Ocycodone is a pure agorist to good whose principal therapeutic action is analgesia. Other therapeutic action is analgesia. Other therapeutic effects of oxycodone include anxiolysis, euphoria and feelings of relaxation. Like all pure opioid agorists, there is no celling effect to analgesia, such as is seen with partial ago-

nists or non-opioid analyssics.

The precise mechanism of the analgesic action is unknown. However, specific CNS opioid receptors for endogenous compounds with opioid-like activity have been identified throughout the brain and spinal cord and play a role in the analgesic effects of this drug.

Oxycodone produces respiratory depression by direct action on brain stem respiratory cen-ters. The respiratory depression involves both a reduction in the responsiveness of the brain stem respiratory centers to increases in carbon dioxide tension and to electrical stimulation.

stem respiratory centres to increases in carbon olivide tension and to electrical standardo. Oxycodone depresses the cough reflex by direct effect on the cough center in the medulla. Antitussive effects may occur with doses lower than those usually required for analgesia. Oxycodone causes miosis, even in total darkness. Pinpoint pupils are a sign of opioid over-dose but are not pathognomonic. Marked mydinasis rather than miosis may be seen due to hypoxia in overdose situations.

hypoxia in overdose situations. Gastrointestinal Treat and Other Smooth Muscle Oxycodone causes a reduction in motifity associated with an increase in smooth muscle tone in the antrum of the stomach and douberum. Dipestion of food in the small intestine is delayed and propulsive contractions are decreased. Propulsive peristatio waves in the colon are decreased, while tone may be increased to the point of spasm resulting in constipation. Other opioid-induced effects may include a reduction in gastric, bilary and pancreatic secre-tions, spasm of sphinicter of Oddi, and transient elevations in serum arrylase.

Cardiovascular System
Ovycodone may produce release of histamine with or without associated peripheral vasodilation. Manifestations of histamine release and/or peripheral vasodilation may include pruritus, flushing, red eyes, sweating, and/or orthostatic hypotension.

Concentration — Efficacy Relationships (Pharmacodynamics)
Studies in normal volunteers and patients reveal predictable relationships between oxycodone Stituties in normal volunteers and patients reveal preductional relationships devived notycounds dosage and plasma oxycodone concentrations, as well as between concentration and certain expected opioid effects. In normal volunteers these include pupillary constriction, sedation and overall "drug effect" and in patients, analgesia and feelings of "relaxation." In non-follestrant patients, analgesta is not usually seen at a plasma oxycodone concentration of less than 5–10 ng/mL. analgesia is not usually seen at a plasma oxycolone concentration or less train 5- L0 ng/mL.

As with all opioids, the minimum effective plasma concentration for analgesia will vary widely among patients, especially among patients who have been previously treated with potent
agonist opioids. As a result, patients need to be treated with individualized tritantion of dosage
to the desired effect. The minimum effective analgesic concentration of oxycodone for any individual patient may increase with repeated dosing due to an increase in pain and/or the development of tolerance.

Concentration. Advance Extragance Poststopping.

Concentration - Adverse Experience Relationships

Concentration—Adverse Experience Relationships
OxyContin* I belets are associated with hybrical opicid-related adverse experiences similar to those seen with immediate-release oxycodone and all opicids. There is a general relationship between increasing oxycodone plasma concentration and increasing frequency of dose-relationated opicid adverse experiences such as nauses, vorniting, CNS effects and respiratory depression. In opicid-tolerant patients, the situation is aftered by the development of folerance to opicid-related side effects, and the relationship is poorly understood.

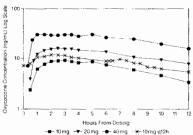
As with all opicids, the dose must be individualized (see DOSAGE AND ADMINISTRATION), because the effective analgesic dose for some patients will be too high to be folerated by other patients.

PHARMACOKINETICS AND METABOLISM

PHARMACOKINETICS AND METABOLISM
The activity of DxyContin** (oxycodone hydrochloride controlled-release) tablets is primarily due to the parent drug oxycodone. DxyContin tablets are designed to provide controlled delivery of oxycodone over 12 hours. Oxycodone is well absorbed from OxyContin tablets with an oral bioavailability of from 60% to 87%. The relative oral bioavailability of 0xyContin in tormediate-release and dosage forms is 100% Upon repeated dosagin in normal volunteers, steady-state levels were achieved within 24-36 hours. Dose proportionality has been established for the 10 mg, 20 mg and 40 mg tablet strengths for both peak plasma levels (Cmia) and extent of absorption (AUC). Oxycodone is extensively metabolized and eliminated primarily in the urine as both conjugated and unconjugated metabolites. The apparent elimination half-tife of oxycodone following the administration of OxyContin was 4.5 hours compared to 3.2 hours for immediate-release oxycodone.

About 60% to 87% of an oral dose of oxycodone reaches the central compartment in com About too a to or a to all to all toos bit styctooline restores are being a comparation to a parameter all dose. This high total bidiavallability is due to low pre-systemic and/or first-pass metabolism, in normal volunteers the t1% of absorption is 0.4 hours for immediate-release or all oxycodrone. In contrast, OxyComin tables exhibit a biphasic absorption patient with two apparent absorption half-times of 0.6 and 6.9 hours, which describes the initial release of oxycodrone from the table to lowed by a prolonger release.

Plasma Oxycodone By Time



Dose proportionality has been established for the 10 mg, 20 mg and 40 mg tablet strengths for both peak plasma concentrations (C_{max}) and extent of absorption (AUC) (see Table 1 below). Given the short half-life of elimination of oxycodone from OxyContin. steady-state plasma con-

centrations of oxycodone are achieved within 24-36 hours of initiation of dosing with OxyContin tablets. In a study comparing 10 mg of OxyContin every 12 hours to 5 mg of immediate-release oxycodone every 6 hours the two treatments were lound to be equivalent for AUC and C_{man}, and similar for C_{m_0} (trough) concentrations. There was less fluctuation in plasma concentrations to the OxyContin tablets than for the immediate-release formulation.

Mean 1% coefficient variation)

AUC (ng • hr/mL)†	C _{max} (ng/mL)	T _{max} (hrs)	Trough Conc. (ng/mL)
100.7 [26.6]	10.6 [20.1]	2.7 [44.1]	n,a.
207.5 [35.9]	21.4 [36.6]	3.2 [57.9]	n.a.
423.1 [33.3]	39.3 [34.0]	3.1 [77.4]	n.a.
103.6 [38.6]	15.1 [31.0]	3.2 [69.5]	7.2 [48.1]
99.0 [36.2]	15.5 [28.8]	1.6 [49.7]	7.4 [50.9]
	(ng · hu/mL)† 100.7 [26.6] 207.5 [35.9] 423.1 [33.3] 103.6 [38.6]	(ng-hi/mL)† (ng/mL) 100.7 [26 6] 10.6 [20.1] 207.5 [35 9] 21.4 [36.6] 423.1 [33.3] 39.3 [34.0] 103.6 [38.6] 15.1 [31.0]	(ng-hi/mL)† (ng/mL) (ns) 100.7 [26.6] 10.6 [20.1] 2.7 [44.1] 207.5 [35.9] 21.4 [36.6] 3.2 [57.9] 423.1 [33.3] 39.3 [34.0] 3.1 [77.4] 103.6 [38.6] 15.1 [31.0] 3.2 [69.5]

Food Effects

In contrast to immediate-release formulations, food has no significant effect on the absorption of oxycodone from OxyContin. Oxycodone release from OxyContin tablets is pH independent.

Chlowing intravenous administration, the volume of distribution (Vss) for oxycodone was 2 6L/kg. Oxycodone binding to plasma protein at 37C° and a pH of 7.4 was about 45%. Once absorbed, oxycodone is distributed to skeletal muscle, liver intestinal tract, lungs, spleen and brain. Oxycodone has been found in breast milk (see PRECAUTIONS).

Metabolism
Oxycodone hydrochloride is extensively metabolized to noroxycodone, oxymorphone, a Oxycodone hydrocinione is exertisively reliabilized to intoxycoulorie, any united process of a disputation of the major circulating metabolite is noroxycodone with an AUC ratio of 0.6 relative to that of oxycodone. Noroxycodone is reported to be a considerably weaker analgesis than oxycodone. Oxymorphone, although possessing analgesis activity, is present in the plasma only in low concentrations. The correlation between oxymorphone concentrations and opioid effects was much less than that seem with oxycodone plasma concentrations. The analgesis activity profile of other metabolites is not known at present.

The formation of oxymorphone, but not noroxycodone, is mediated by CYP2D6 and as such its formation can, in theory, be affected by other drugs (see Drug-Drug Interactions).

creation and its metabolites are excreted primarily via the kidney. The amounts measured the urine have been reported as follows: free oxycodone up to 19%; conjugated oxycodone to 50%; free oxymorphone 0%; conjugated oxymorphone ≤14%; both free and conjugat-noroxycodone have been found in the urine but not quantified. The total plasma clearance was 0.8 L/min for adults.

was u.b. Limin for adults.

Special Populations

Elderly

The plasma concentrations of oxycodone are only nominally affected by age, being 15% greater in elderly as compared to young subjects. There were no differences in adverse event report-

er le subjects have, on average, plasma oxycodone concentrations up to 25% higher than s on a body weight adjusted basis. The reason for this difference is unknown.

Real Impairment | Renal Impairme

oxycodone of only 1 hour (see PRECAUTIONS). Hepatic Impairment Preliminary data from a study involving patients with mild to moderate hepatic dystruction Preliminary data from a study involving patients with mild to moderate hepatic dystruction show peak plasma oxycodone and nonxycodone concentrations 50% and 20% higher, respectively, than normal subjects. AUC values are 95% and 65% higher, respectively. Oxymorphone peak plasma concentrations and AUC values are lower by 30% and 40%. These differences are accompanied by increases in some, but not other, drug effects. The 1% elimination for oxycodone increased by 2.3 hours (see PRECAUTIONS). Dury-Dury Interactions (see PRECAUTIONS). Dury-Dury Interactions (see PRECAUTIONS). Dycodone is metabolized up part via CYP2016 to oxymorphone which represents less than 15% of the total administered dose. This route of elimination can be blocked by a variety of drugs (e.g., certain cardiovascular drugs and anti-depressants). Patients receiving such drugs con-comitantly with OxyContin do not appear to present different therapeutic profiles than other patients.

CLINICAL TRIALS
OxyContin** (OxyCodone hydrochloride controlled-release) tablets were evaluated in studies involving 713 patients with either cancer or non-cancer pain. All patients receiving OxyContin were dosed q12h. Efficacy comparable to other forms of oral oxycodone was demonstrated in clinical studies using pharmacokinetic, pharmacodynamic and efficacy ductomes. The outcome of these trials indicated; (1) a positive relationship between dose and plasma oxycodone concentration, (2) a positive relationship between plasma oxycodone concentration, (2) a positive relationship between plasma oxycodone concentration, (2) a positive relationship between plasma oxycodone oxocentration, (2) a positive relationship between plasma oxycodone oxocentration (2) and oxycodone in clinical populations at the same total daily dose.

oxycotone in clinical populations at the same total daily obse. In clinical trials, DvQ-point habbits were substitled for a wide variety of analgesics, including acetaminophen (APAP), aspirin (ASAD), other non-steroidal anti-inflammatory drugs (NSADS), opicid combination products and single-entity opioids, primarily morphine. In cancer patients receiving adequate opioid therapy at baseline, pain intensity scores and acceptability of therapy remained unchanged by transfer to OxyContin. For non-cancer pain patients who had moderate to severe pain at baseline on propioid therapy, pain control and acceptability of therapy improved with the introduction of fixed-interval therapy with OxyContin.

Use in Cancer Pain
OxyContin was studied in three double-blind, controlled clinical trials involving 341 cancer patients

Coycomn was studed in three double-bind, controlled clinical thats involving 341 cancer palents and several open-label trials with therapy durations of over 10 months. Two, bouble-blind, controlled clinical studies indicated that DoyContin dosed q12h produced analgesic efficacy equivalent to immediate-release oxycodone dosed q1d at the same total daily dose. Peak and though plasma concentrations attained were similar to those attained with immediate-release oxycodone at equivalent total daily doses. With titration to analgesic effect and proper use of rescue medication, nearly every patient achieved adequate pain control with OxyContin.

In the third study, a double-blind, active-controlled, crossover trial, OxyContin dosed g12h was how the squy allower with, active controlled. Costore that, oxycon mode up (12 miss) shown to be equivalent in efficacy and safety to immediate-release oxycodone dosed qid at the same total daily dose. Patients were able to be litrated to an acceptable analyssic effect with either Oxycon from immediate-release oxycodone with both treatments providing stable pain control within 2 days in most patients.

paint country with z voys in most patients. In patients with cancer pain, the total daily 0xyContin doses tested ranged from 20 mg to 640 mg per day. The average total daily dose was approximately 105 mg per day.

mg per day. The average total daily dose was approximately 105 mg per day. Studies in Non-Cancer Pain. A double-bind, placebo-controlled, fixed-dose, parallel group study was conducted in 133 patients with moderate to severe ostecarthritis pain, who were logided as having inadequate pain control with prin opicids and maximal non-steroidal anti-inflammatory betwayls, this study, 20 mg OxyContin q (2h significantly decreased pain and improved guality of tile, mood and sleep, relative to placebo. Both dose-concentration and concentration-efficient relationships were noted with a minimum effective plasma oxycodone concentration of approximately 5–10 ng/mil. In a double-bind, active-controlled, crossover study involving 57 potents with how-back pain inadequately controlled with prin opicids and non-opicid therapy, OxyContin administered q21b provided analgesia equivalent to immediate-release oxycodone administered (P. Patents could be titrated to an acceptable analgesic effect with either OxyContin or immediate-release forms of oxycodone.

forms of oxycodone.

Single-Dose Comparison with Standard Therapy

Single-Dose Comparison with Standard Therapy.

A single-dose, double-blind, placebo-controlled, post-operative study of 182 patients was conducted utilizing graded doses of OxyContin (10, 20 and 30 mg). Twenty and 30 mg of OxyContin gave equivalent peak analgesic effect compared to two oxycodone. So mg/aceta-minophen 325 mg tablets and to 15 mg immediate-release oxycodone, while the 10 mg dose of OxyContin was intermediate between both the immediate-release and combination products and placebo. The onset of analgesic action with OxyContin occurred within 1 hour in most patients.

and pracebo. The onset of analysis caction with OxyContin occurred within 1 hour in most patients following oral administration.

OxyContin is not recommended pre-operatively (preemptive analyssia) or for the management of pain in the immediate post-operative period (the first 12 to 24 hours following surgery) because the safety or appropriateness of freed-dose, long-acting opioids in this setting has not been established.

Other Clinical Trials

In open-label trials involving approximately 200 patients with cancer-related and non-cancer pain, dosed according to the package insert recommendations, appropriate analysis effectiveness was noted without regard to age, gender, race, or disease state. There were no unusual drug interactions observed in patients receiving a wide range of medications common For opioid-naive patients, the average total daily dose of OxyContin was approximately 40 mg per day. There was no evidence of oxyCodone and metabolite accumulation during 8 months of therapy. For cancer pain patients the average total daily dose was 105 mg (range 20 to 720 mg) per day. There was a significant decrease in acute opioid-related side effects, except for constipation, during the first several weeks of therapy. Development of significant tolerance to analogsia was uncommon.

INDICATIONS AND USAGE

NovContin™ tablets are a controlled-release oral formulation of oxycodone hydrochloride indicated for the management of moderate to severe pain where use of an opioid analgesic is appropriate for more than a few days. (See: CLINICAL PHARMACOLOGY; CLINICAL TRIALS).

CON INMIDICATION
SyCortin 1: contraindicated in patients with known hypersensitivity to oxycodone, or in any situation where opioids are contraindicated. This includes patients with significant respiratory depression (in unmonitored settings or the absence of resociative equipment), and patients with acute or severe bronchall asthma or lyparcarbia. OxyContin is contraindicated in any patient who has or is suspected of having paraphic ileux.

OxyContin.** (oxycodone hydrochloride controlled-release) TABLETS ARE TO BE SWALLOWED WHOLE, AND ARE NOT TO BE BROKEN, CHEWED OR CRUSHED. TAKING BROKEN, CHEWED OR CRUSHED TAKING BROKEN, CHEWED OR CRUSHED DAYConlin TABLETS COULD LEAD TO THE RAPID RELEASE AND ABSORPTION OF A POTENTIALLY TOXIC DOSE OF OXYCODONE.

Bassiatory, Changelon

Respiratory Depression
Respiratory depression is the chief hazard from all opicid agonist preparations. Respiratory
depression occurs most frequently in elderly or debilitated patients, usually following large initial doses in non-tolerant patients, or when opicids are given in conjunction with other agents that depress respiration

that depress respiration. Oxycotione should be used with extreme caution in patients with significant chronic obstruc-tive pulmonary disease or cor pulmonale, and in patients having a substantially decreased res-piratory reserve, hypoxia, hypercapina, or previsiting respiratory drive to the point of aprea-even usual therapeutic doses of oxycodone may decrease respiratory drive to the point of aprea-in these patients alternative non-poiloid analgesics should be considered, and opinids should be employed only under careful medical supervision at the lowest effective dose.

Head Injury

The respiratory depressant effects of opioids include carbon dioxide retention and secondary
elevation of cerebrospinal fluid pressure, and may be markedly exaggerated in the presence
of head injury, intracranial lesions, or other sources of preexisting increased intracranial pressure. Dxycodone produces effects on pupillary response and consciousness which may
obscure neurologic signs of further increases in intracranial pressure in patients with head injuries.

obscare heartodic signs of the time interests in influencing pressure in pages and individual whose ability to maintain blood pressure has been compromised by a depleted blood volume, or after concurrent administration with drugs such as phenothiazines or other agents which compromise vasomotor tone. OxyContilin may produce or thostatic hypotension in ambulatory patients. OxyContili, time alloyid analgesics, should be administered with caution to patients in circulatory shock, since vasodilation produced by the drug may further reduce cardiac output and blood preservine. pressure.

PRECAUTIONS

oceretain "Coxycodone hydrochloride controlled-release) tablets are intended for use in patients who require oral pain therapy with an opicid agonist of more than a few days dura-tion. As with any opicid analgesic, it is critical to adjust the dosing regirnen individually for each patient (see DOSAGE AND ADMINISTRATION).

patient (see DOSAGE AND ADMINISTRATION).
Selection of patients for treatment with DoyContin should be governed by the same principles that apply to the use of similar controlled-release opioid analgesics (see INDICATIONS AND USAGE). Opioid analgesics given on a fixeed-dosage schedule have a narrow therapeutic interaction of the position of the production opioid the production of the prod

psyctions.
The administration of oxycodone, like all opioid analgesics, may obscure the diagnosis or chricial course in patients with acute abdominal conditions. Oxycodone may aggravate convulsions in patients with convulsive disorders, and all opioids may induce or aggravate seizures

sions in patients with convulsive disorders, and all opioids may induce of aggravate seizures in some chirical settings.

Systomin, like all opioid analgesics, should be used with caution and started in a reduced dosage (Vs to Vs of the usual dosage) in patients who are concurrently receiving other central nervous system depressants including sedatives or hypnotics, general anesthetics, phenothiazines, other tranquitizers and alcohol. Interactive effects resulting in respiratory depression, hypotension, profound sedation or coma may result if these did ups are taken in combination with the usual doses of OxyContin.

Interactions with Mixed Agonist/Antagonist Opioid Analgesics

interactions with maked Agrinstantagons opened variages its. Agonist/antagonist analgesics (i.e., pentazocine, nalbuphine, butorphanol and buprenorphine) should be administered with caution to a patient who has received or is receiving a course of sherapy with a pure opioid agonist analgesic such as oxycodone. In this situation, mixed ago-nists with agonist analgesics may reduce the analgesic effect of oxycodone and/or may precip-itate withdown symptoms in these patients.

Ambulatory Surgery
(bxyConthn is not recommended pre-operatively (preemptive analgesia) or for the management
of pain in the immediate post-operative period (the first 12 to 24 hours following surgery) for
patients not previously taking the drug, because its safety in this setting has not been estab-

Ashieuts who are already receiving OxyContin tablets as part of ongoing analgesic therapy may be safely continued on the drug if appropriate dosage adjustments are made considering the procedure, other drugs given and the temporary changes in physiology caused by the surgle cal intervention (see PRECAUTIONS: Drug-Drug Interactions, and DOSAGE AND ADMINIS-TOXITION.

cal intervention (see PRECAUTIONS: Drug-Drug Interactions, and DÖSAGE AND ADMINIS-TRATION).

Itse in Pancreatic/Billary Tract Disease
Oxycodone may case spasm of the sphincter of Oddi and should be used with caution in patients with billary tract disease, including acute pancreatitis. Opioids like oxycodone may case increases in the serum amylase level.

Tolerance and Physical Dependence
Tolerance is the need for increasing doses of opioids to maintain a defined effect such as analgessa (in the absence of disease progression or other external factors). Physical dependence is the occurrence of withdrawal symptoms after abrupt discontinuation of a drug or upon administration of an antagonist. Physical dependence and tolerance are not unusual during chronic opioid therapy.

Significant tolerance should not occur in most of the patients treated with the lowest doses of oxycodone. It should be expected, however, that a fraction of cancer patients will develop some degree of tolerance and require progressively higher disagase of OxyComin to maintain pain control during chronic treatment. Regardless of whether this occurs as a result of increased pain secondary to disease progression or pharmacological tolerance, disagase and usually be increased safely by adjusting the patient's disde effects, except for constipation. Physical dependence results in withdrawal symptoms in patients who abruptly discontinue the drug or may be precipitated through the administration of drugs with opioid artiagonist activity (see OVERDOSAGE). If OxyContin is sabruptly discontinued in a physically dependent patient, an abstinence syndrome may occur if his is characterized by some or all of the following: restlessness, lacrimation, thinorrhea, yawming, perspiration, chilis, mydigia and mydralss. Other symptoms also may develop, including: irribating, anothy paralled by enter or the art after. If signs and symptoms of withtrawal occur, patients, an about the read of the restlement of a for the art after. If signs and symptoms of withtrawa

bodo pressure, respiratory fate or men teate. If signs and symptoms of withdrawal occur, patients should be treated by reinstitution of opi-oid therapy followed by a gradual, taperied dose reduction of OxyContin combined with symp-tomatic support (see DOSACE AND ADMINISTRATION: Cessation of Therapy).

tomatic support (see DDSAGE AND ADMINISTRATION: Cessation of Therapy). Information for Patients/Caregiversing OxyContin (oxycodone hydrochloride controlled-release) tablets or their caregivers should be given the following information by the physician, nurse, pharmacist or caregiver:

1. Patients should be advised that OxyContin tablets were designed to work properly only if swal-lowed whole. They may release all their contents at once if broken, chewed or crushed, result-

- ing in a risk of overdose.
- ...g in a han or vertices.
 2. Patients should be advised to report episodes of breakthrough pain and adverse experiences occurring during therapy. Individualization of dosage is essential to make optimal use of this
- Patients should be advised not to adjust the dose of OxyContin without consulting the pre-scribing professional.

altalgasis, adjuvants, provided cale is skell to select a proper initial obser (ser_rec_var_TIONS).

Conversion from Transdermal Fentaryl to OxyContin
Eighteen hours following the removal of the transdermal fentaryl patch, OxyContin treatment can be initiated. Although there has been no systematic assessment of such conversion, a conservative oxycodene dose, approximately 10 mg q12h of OxyContin, should be initially substituted for each 25 upfur fentaryl transdermal patch. The patient should be followed closely for early titration as there is very limited clinical experience with this conversion.

Maraging Expected Opioid Adverse Experiences
Most patients receiving opioids, especially those who are opioid naive, will experience side effects. Most patients receiving opioids, especially those who are opioid naive, will experience side effects. Most patients are transient, but may require evaluation and management. Adverse events such as constipation should be anticipated and treated aggressive yand prophylacically with a stimulant leastive and/or stool softener. Patients do not usually become tolerant to the constipating effects of opioids.

Other opioid-related side effects such as sedation and nausea are usually self-limited and often do not persist beyond the first lev days. If rausea persists and is unacceptable to the patient,

do not persist beyond the first few days. If nausea persists and is unacceptable to the patient, treatment with anti-emetics or other modalities may relieve these symptoms and should be con-

Shereux.
Patients receiving OxyContin may pass an intact matrix "ghost" in the stool or via colostomy.
These ghosts contain little or no residual oxycodone and are of no clinical consequence.

These phosts contain little or no residual oxycodone and are of no clinical consequence. Individualization of Dosage Once therapy is initiated, pain relief and other opioid effects should be frequently assessed. Patients should be titrated to adequate effect (generally mild or no pain with the regular use of no more than two doses of supplemental analgesia per 24 hours). Pescue medication should be available (see: Supplemental Analgesia). Because steady-state plasma cornentrations are approximated within 24 to 35 hours, diseage adjustment may be carried out every 1 to 2 days. It is most appropriate to increase the 12th dose, not the dosing frequency. There is no faciliar almost anom no dosing intervals shorter than q12h. As a gludeline, except for the increase from 10 mg to 20 mg q12h, the total daily oxycodone dose usually can be increased by 25% to 50% of the current dose at each increase. It signs of excessive opioid-related adverse experiences are observed, the next dose may be reduced. If this adjustment teads to inadequate analgesia, a supplemental dose of immediate-

in excessive opinion-trades dands to inadequate analysisa, a supplemental dose of immediate-reduced. If this adjustment leads to inadequate analysisa, a supplemental dose of immediate-release oxycodone may be given. Alternatively, non-opioid analysis adjuvants may be employed. Dose adjustments should be made to obtain an appropriate balance between pain refel and opioid-related adverse experiences.

reed and opinior-teated adverse experiences.

It significant adverse events occur before the therapeutic goal of mild or no pain is achieved, the events should be treated aggressively. Once adverse events are under control, upward titration should continue to an acceptable level of pain control.

During periods of changing analyseis requirements, including initial titration, frequent contact is recommended between physician, other members of the health-care tearn, the patient and

the caregiver/family.

the carepiver/family. Supplemental Analgesia Most cannor perients given around-the-clock therapy with controlled-release opioids will need to have immediate-release motication available for "rescue" from breakthrough pain or to prevent pain that occurs predictably during certain patient activities (incident pain). Rescue medication can be immediate-release oxycodone, either alone or in combination with acetaminophen, aspirin or other NSAIDs as a supplemental analgesis. The supplemental analgesis chould be prescribed at "a to "s of the 12-hour OxyCortin dose as shown in Table 4. The rescue medication is dosed as needed for breakthrough pain and administered one hour before anticipated incident pain, if more than two doses of rescue medication are needed with-nized upward. Caregivers and patients using prin rescue ganglesia in combination with around-the-clock opioids should be advised to report incidents of breakthrough pain to the physician managing the patient's analgesia (see Information for Patients/Caregivers).

nra Rescue Dose

Table of Appropriate Supplemental Analgesia

	immediate-release
xyContin q12h Dose (mg)	oxycodone (mg)
10 (1×10 mg)	5
20 (2×10 mg)	5
30 (3×10 mg)	10
40 (2×20 mg)	10
60 (3×20 mg)	15
30 (2×40 mg)	20
20 (3×40 mg)	30
aintenance of Therapy	

Maintenance of Therapy

The intent of the thration period is to establish a patient-specific q12h dose that will maintain adequate analgesia with acceptable side effects for as long as pain relief is necessary. Should pain recur then the dose can be incrementally increased to re-establish pain control. The method of therapy adjustment outlined above should be employed to re-establish pain control.

During chronic therapy, especially for non-cancer pain syndromes, the continued need for around-the-clock opiniot therapy should be reassessed periodically (e.g., every 6 to 12 months) as appropriate.

priate. Cessation of Therapy
When the patient no longer requires therapy with OxyContin tablets, patients receiving doses of 20–60 mg/day can usually have the therapy stopped abruptly without incident. However, in the physically dependent patient. The daily dose should be reduced by approximately 50% for the first two days and then reduced by 25% every two days thereafter until the total dose reaches the dose recommended for opioid naive patients (10 or 20 mg q12h). Therapy can then be discontinued.

then be discontinued.

It signs of withdrawal appear, tapering should be stopped. The dose should be slightly increased until the signs and symptoms of opioid withdrawal disappear Tapering should then begin again but with longer periods of time between each dose reduction.

Conversion from OxyContin to Parenteral Opioids

To avoid overdose, conservative dose conversion ratios should be followed. Initiate treatment with about 50% of the estimated equianalgesic daily dose of parenteral opioid divided into suitable individual doses based on the appropriate dosing interval, and titrate based upon the patient's response. response

SAFETY AND HANDLING

OxyContin.** (oxyCodone hydrochloride controlled-release) tablets are solid dosage forms that pose no known health risk to health-care providers beyond that of any controlled substance. As with all such drugs, care should be taken to prevent diversion or abuse by proper handling.

HOW SUPPLIED

OxyContin (oxycodone hydrochloride controlled-release) 10 mg tablets are round, unscored, wither-colored, convex tablets bearing the symbol OC on one side and 10 on the other They are supplied as follows:

NDC 59011-100-10: child-resistant closure, opaque plastic bottles of 100

OxyContin (oxyCodone hydrochloride controlled-release) 20 mg tablets are round, unscored, pink-colored, convex tablets bearing the symbol OC on one side and 20 on the other. They are supplied as follows:

NDC 59011-103-10: child-resistant closure, opaque plastic bottles of 100.

NDC 59011-1103-10: Cinia-resistant closure, opaque piasue domies of 100 OxyContin (oxyCodone hydrochoide controlled-relases) 40 mg lablets are round, unscored, yellow-colored, convex tablets bearing the symbol CC on one side and 40 on the other. They are supplied as follows: NDC 59011-105-10. child-resistant closure, opaque piastic bottles of 100 Store tablets a controlled room temperature 15–30°C (59–86°F). Dispense in tight, flight-resistant container.

CAUTION

DEA Order Form Required.

Federal law prohibits dispensing without prescription.

Manufactured by The PF Laboratories, Inc. Totowa, N.J. 07512 Distributed by Purdue Pharma L.P. Norwalk, CT 06850-3590

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December 5, 1995 A4909-811

Patients should be advised that OxyContin may impair mental and/or physical ability required for the performance of potentially hazardous tasks (e.g., driving, operating heavy machin-

tor the performance of potentiany nazaroous tasks (e.g., orwing), uperating heavy inactini-ery).

5. Patients should not combine OxyContin with alcohol or other central nervous system depressants (sleep aids, tranquilizers) except by the orders of the prescribing physician, because additive effects may occur.

6. Women of childbearing potential who become, or are planning to become, pregnant should be advised to consult their physician regarding the effects of analgesits and other drug use during pregnancy on themselves and their unbown child.

7. Patients should be advised the OxyContin is a potential drug of abuse. They should protect it from theft, and it should never be given to anyone other than the individual for whom it was prescribed.

8. Patients should be advised that they may pass empty matrix "ghosts" (tablets) via colostomy or in the stool, and that this is of no concern since the active medication has already been absorbed.

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Patients should be advised that if they have been receiving treatment with OxyContin for more than a lew weeks and cessation of therapy is indicated, it may be appropriate to taper the OxyContin does, rather than abruptly discontinue if, due to the risk of precipitating withdrawal symptoms. Their physician can provide a dose schedule to accomplish a gradual discontinuation of the medication.

Invasion of the medication. Laboratory Monitoring
Due to the broad range of plasma concentrations seen in clinical populations, the varying degrees of pain, and the development of tolerance, plasma oxycodone measurements are usually not heightful in clinical management. Plasma concentrations of the active drug substance may be of value in selected, unusual or complex cases. Interactions with Alcohol and Drugs of Abuse Oxycodone may be expected to have additive effects when used in conjunction with alcohol, other opiniods or illicit fungs which cause central nervous system depression.

Use in Drug and Alcohol Addiction
OxyContin is an opioid with no approved use in the management of addictive disorders. Its proper usage in individuals with drug or alcohol dependence, either active or in remission, is for the management of pain requiring opioid analgesia.

Drug-Drug Interactions

Drug-Drug interactions

Opioid analgestics, including DxyCordin, may enhance the neuromuscular blocking action of skeletal muscle relaxants and produce an increased degree of respiratory depression. Oxycordone is metabolized in part to oxymorphone via CVP2D6. While this pathway may be blocked by a variety of drugs (e.g., certain cardiovascular drugs and antidepressants), such blockade has not yet been shown to be of clinical significance with this agent. Clinicians should be aware of this positible interaction, however. Use with CNS Depressants

DxyContin, like all opioid analgesics, should be started at 1s to 1s of the usual dosage in patients who are concurrently receiving other central nervous system depressants including sedatives or hypnotics, general anesthetics, phenotinazines, centrally acting anti-emetics, tranquilizers and alcohol because respiratory depression, hypotension and profound sedation or oran may result. No specific interaction between oxycordone and monoamine oxidase inhibitors has been observed, but caution in the use of any opioid in patients taking this class of drugs is appropriate.

Nutagenicity
Studies of oxycodone in animals to evaluate its carcinogenic and mutagenic potential have not been conducted owing to the length of clinical experience with the drug substance.

been conducted owing to the length of clinical experience with the drug substance.
Pregnancy
Preatopenic Effects — Category B. Reproduction studies have been performed in rats and rabits by oral administration at doses up to 8 mg/kg (48 mg/m²) and 125 mg/kg (1375 mg/m²),
respectively. These doses are 4 and 60 times a human dose based upon mg/m²). The results
did not reveal evidence of harm to the fetus due to oxycodore. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies
are not always predictive of human response, this drug should be used during pregnancy only
if clearly needed.
Nonteratogenic Effects — Neonates whose mothers have been taking oxycodone chronically
may exhibit respiratory depression and/or withdrawal symptoms, either at birth and/or in the
nursery.
Labor and Delivery

Labor and Delivery

Labor and Denvery

OxyContin is not recommended for use in women during and immediately prior to labor and delivery because oral opioids may cause respiratory depression in the newborn.

Nursina Mothers

Low concentrations of oxycodone have been detected in breast milk. Withdrawal symptoms Low concentrations of toxylocours make been detected in breast-lending infants when maternal administration of an applied analysis is stopped. Ordinarily, nursing should not be undertaken while a patient is receiving OxyContin since oxycodone may be excreted in the milk.

Pediatric Use

Pediatric Use. Safety and effectiveness in pediatric patients below the age of 18 have not been established with this dosage form of oxycodone. However, oxycodone has been used extensively in the pediatric population in other dosage forms, as have the excipient used in this formulation. No specific increased risk is expected from the use of this form of oxycodone in pediatric patients of enough to safety take tablets if dosing is adjusted for the patient's weight (see DOSAGE AND ADMINISTRATION). It must be remembered that OxyContin tablets cannot be crushed

or divided for administration.

Geriatric Use In controlled pharmacokinetic studies in elderly subjects (greater than 65 years) the clearance of oxycodone appeared to be slightly reduced. Compared to young adults, the plasma concentrations of oxycodone were increased approximately 15%. In clinical trials with appropriate initiation of therapy and dose littration, no untoward or unexpected side effects were seen based on age, and the usual doses and dosing intervals are appropriate for the geriatric patient. As with all optioids, the starting dose should be reduced to "a to "a of the usual dosage in debilitated, non-tolerant patients.

Ill decimatesco, and consequence the Hepatic Impairment
A study of OxyCortion in patients with hepatic impairment indicates greater plasma concentrations than those with normal function. The initiation of therapy at 1/3 to 1/3 the usual doses and careful dose titration is warranted.

Renal Impairment
In patients with renal impairment, as evidenced by decreased creatinine clearance (<60
Impairments with renal impairment, as evidenced by decreased creatinine clearance (<60
Impairments with normal renal function. Dose initiation should follow a conservative approach. Dosages should be adjusted according to the clinical situation

DOSages Strution to explosers accounting to the united included.

Gender Differences
In pharmacokinetic studies, opioid-naive lerandes demonstrate up to 25% higher average
In pharmacokinetic studies, opioid-naive lerandes demonstrate up to 25% higher average
Inplasma concentrations and greater frequency of typical opioid adverse events than makes, even
after adjustment for body weight. The clinical relevance of a difference of this magnitude is low
to a drug infered for chronic usage all individualized dosages, and there was no malk/fernale
difference detected for efficacy or adverse events in clinical trials

ADVERSE REACTIONS

ADVERSE REACTIONS
Serious adverse reactions which may be associated with OxyContin** (oxycodone bydrochloride controlled-release) tablet therapy in clinical use are those observed with other opioid analogists, including respiratory depression, apnea, respiratory arrest, and (to an even lesser degree) circulatory depression, hypotension to shock (see OVERIOSS). The non-serious adverse events seen on initiation of therapy with OxyContin are typical opioid side effects. These events are doses dependent, and their frequency depends upon the dose, the clinical setting, the patient's level of opioid tolerance, and host factors specific to the individual. They should be expected and managed as a part of opioid analogista. The most frequent (>5%) include constipation, nausea, somnolence, dizziness, vomiting, pruntus, headache, dry mouth, sweating and astherium. mouth, sweating and asthenia.

mouth, sweating and astheria. In many cases the frequency of these events during initiation of therapy may be minimized by careful individualization of starting dosage, slow litration, and the avoidance of large swings in the plasma concentrations of the opioid. Many of these adverse events will cease or decrease in intensity as OxyConfinitherapy is confinited and some degree of tolerance is devel-

In clinical trials comparing OxyContin with immediate-release oxycodone and placebo, the most common adverse events (>5%) reported by patients (pts) at least once during therapy were:

Table 2	D=	Contin = 227 rts (%)	Rel n=	ediate- ease 225 is (%)	n	acebo = 45 its (%)
Constipation	52	(23)	58	(26)	3	(7)
Nausea	52	(23)	60	(27)] 5	(†1)
Somnolence	52	(23)	55	(24)	2	(4)
Dizziness	29	(13)	35	(16)	4	(9)
Pruritus	29	(13)	28	(12)	1	(2)
Vomiting	27	(12)	31	(14)	3	(7)
Headache	17	(7)	19	(8)	3	(7)
Dry Mouth	13	(6)	15	(7)	1 1	(2)
Asthenia	13	(6)	16	(7)	1 -	_
Sweating	12	(5)	1 13	(6)	1 1	(2)

sea and vomiting, stomatitis

aonormannes, ann onccups.

The following adverses reactions occurred in less than 1% of patients involved in clinical trials:

General: accidental injury, chest pain, facial edema, malaise, neck pain, pain

Cardiovascular: migraine, syncope, vasodilation, ST depression

Digestive: tysphagia, eructation, flatulence, gastrointestinal disorder, increased appetite, nau-

The following adverse experiences were reported in OxyConfin treated patients with an incidence between 1% and 5%. In descending order of frequency they were anorexia, nervous-ness, insormái, fever confusion, damfea, abdomínal pain, dyspepsia, rash, anxiety, euphoria, dyspnea, postural hypotension, chills, twitching, gastrius, abnormal dreams, thought abnormalities, and hiccups.

sea and vomiting, stomatitis

Hemic and lymphatic: lymphatenopathy

Metabolic and Mutritional: dehydration, edema, peripheral edema, thirst

Nervous: abnormal gait, adjatokon, ammesia, depersonalization, depression, emotional lability,

hallucination, hyperkinesia, hypesthesia, hypotonia, malaise, paresthesia, speech disorder, stupor, tinnitus, terrion, vertigo, withdrawal syndrome.

Respiratory: cough increased, pharyngitis, voice alteration

Sterriderskin, exclusions demonstrated.

Skin: dry skin, exfoliative dermatitis Special Senses: abnormal vision, taste perversion

Urogenital: dysuria, hernaturia, impotence, polyuria, urinary retention, urination impaired

Urogenital: dysuria, hematuria, impotence, polyuria, urinary retention, urination impaired DRUG ABUSE AND DEPENDENCE (Addiction)
OxyContin* "Is a mu-agonist opioid with an abuse liability similar to morphine and is a Schedule II controlled substance. Oxycodone products are common targets to both drug abusers and drug addicts. Delayed absorption, as provided by OxyContin tables, is believed to reduce the abuse liability of a drug. Drug addiction (drug dependence, psychological dependence) is characterized by a preoccupation with the procurement, hoarding, and abuse of drugs for non-medicinal purposes. Drug dependence is treatable, utilizing a multi-disciplinary approach, but relapses is common, latrogenic "addiction" to opioids legitimately used in the management of pain is very rare. "Drug seek-maj" behavior is very common to addicts. Tolerance and physical dependence in para patients are not signs of psychological dependence. Preoccupation with achieving adequate pain cellef can be appropriate behavior in a patient with proor pain control. Most chronic pain padients limit their intake of optoids to achieve a balance between the benefits of the drug and dose-limiting side effects.

ing side effects.

Physicians should be aware that psychological dependence may not be accompanied by concurrent loterance and symptoms of physical dependence in all addicts. In addition, abuse of projects can occur in the absence of true psychological dependence and is characterized by misuse for non-medical purposes, other in combination with other psychoactive substances. OxyContin consists of a dual-polymer matrix, intended for oral use only. Parenteal venous injection of the tablet constituents, especially talc, can be expected to result in local tissue necrosis and pulmonary granulomas.

OVERDOWNER

Acute overdosage with oxycodone can be manifested by respiratory depression, somnolence progressing to stupor or coma, skeletal muscle flaccidity, cold and clammy skin, constricted pupils, bradycardia, hypotension, and death.

progressing to suppor of corna, sceneral musche facciony, colorano clammy skin, constructed pupils, bradycardia, hypotension, and death.

In the treatment of oxycodone overdosage, primary attention should be given to the re-establishment of a patent arrivary and institution of assisted or controlled vertilation. Supportive measures (including oxygen and vasopressors) should be employed in the management of circulatory shock and pulmonary edema accompanying overdose as indicated. Cardiac arrest or arrhythmias may require cardiac massage or defibrillation.

The pure opioid antagonists such as naloxone or natmefere are specific artificates against respiratory depression from opioid overdose. Opioid antagonists should not be administered in the absence of clinically significant respiratory or circulatory depression secondary to oxycodone overdose. They should be administered antiously to persons who are known, or suspected to be, physically dependent on any opioid agonist including OxyContine. In such cases, an abrupt or complete reversal of popioid effects may precipitate an acute abstinence syndrome. The severity of the withdrawal syndrome produced will depend on the degree of physical dependence and the dose of the antagonist for details of their proper use.

DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION

General Principles

DysCordin** (oxycodone hydrochoirde controlled-release) TABLETS ARE TO BE SWALLOWED

WHOLE, AND ARE NOT TO BE BROKEN, CHEWED OR CRUSHED TAKING SROKEN, CHEWED

OR CRUSHED DrycOntin TABLETS COULD LEAD TO THE RAPID RELEASE AND ABSORPTION OF A POTENTIALLY TOXIC DOSE OF OXYCODONE.

In treating pain it is vital to assess the patient regularly and systematically. Therapy should also be regularly reviewed and adjusted based upon the patients own reports of pain and side effects and the health proflessionar's clinical judgment.

OxyCondin is intended for the management of moderate to severe pain in patients who require treatment with an oral opioid analgesic for more than a few days. The controlled-release nature of the formulation allows it to be effectively administered every 12 hours. (See CLINICAL PHARMACOKINGT-PHA

therapy.

Initiation of Therapy
It is critical to initiate the dosing regimen for each patient individually, taking into account the patient's prior opioid and non-opioid analgesic treatment. Attention should be given to:

(1) the general condition and medical status of the patient
(2) the daily dose, potency and kind of the analgesic(s) the patient has been taking
(3) the reliability of the conversion estimate used to calculate the dose of oxycodone

(4) the natient's point exposure and opinid tolerance (if any).

(4) the platents options explosive aim opionit interactive (in any) (5) the balance between pain control and adverse experiences experiences. Care should be taken to use low initial doses of OxyContin in patients who are not already opionit ofterant, especially those who are receiving concurrent freatment with muscle relaxants, sedatives, or other CNS active medications (see PRECAUTIONS: Drug-Drug interactions).

Secarities, in Uniter Card Salver Intercucionis (see Procuse Fronces F

Conversion from Fixed-Ratio Opioid/APAP, ASA, or NSAID Combination Drugs

Conversion norm retect-reading photo-privary, risky, or instant continuation triples. Patients who are taking 1 to 5 tablets/capsules/caplets per day of regular strength fixed-combination opioid/non-opioid should be started on 10 to 20 mg OxyContin q12h. For patients taking 6 to 9 tables/capsules/ caplets, a starting dose of 20 to 30 mg q12h is suggested. For those taking 10 to 12 tablets, caplets or capsules a day, 30 to 40 mg q12h should be considered. The non-opioid may be continued as a separate drug. Alternatively, a different non-opioid analgesic may be selected. If the decision is made to discontinue the non-opioid analgesic may be selected. If the decision is made to discontinue the non-opioid analgesic, consideration should be given to early upward titration.

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Paleints Currently on Opioid Therapy
If a patient has been receiving opioid-containing medications prior to OxyContin therapy, the total daily (24-hour) dose of the other opioids should be determined.

1. Using standard conversion ratio estimates (see Table 3 below), multiply the mydday of the previous opioids by the appropriate multiplication factors to obtain the equivalent total daily dose of oral oxycodone.

2. Divide this 24-hour oxycodone dose in half to obtain the twice a day (q12h) dose of

2. Divide this 24-hour daybodorie dose in hair to obtain the twice a day (q12h) dose of OxyContin.

3. Round down to a dose which is appropriate for the tablet strengths available (10, 20, and 40 mg tablets).

40 mg tablets).

4 Discontinue all other around-the-clock oploid drugs when OxyContin therapy is initiated.

No fixed conversion ratio is likely to be satisfactory in all patients, especially patients receiving large opioid doses. The recommended doses shown in Table 3 are only a starting point, and close observation and frequent titration are indicated until patients are stable on the new

Table 3

Multiplication Factors for Converting the Daily Dose of Prior Opioids to the Daily Dose of Oral

(Mg/Day Prior Opioid x	Factor=Mg/Day Oral Oxyco	done)
	Oral Prior Opioid	Parenteral Prior Opio
Oxycodone	1	
Codeine	0.15	_
Fentanyl TTS	SEE BELOW	SEE BELOW
Hydrocodone	0.9	
Hydromorphone	4	20
Levorphanol	7.5	15
Meperidine	0.1	0.4
Methadone	1.5	3
Morobine	0.5	3

To be used only for conversion to oral oxycodone. For patients receiving high-dose parenteral opioids, a more conservative conversion is warranted. For example, for high-dose parenteral morphine, use 1.5 instead of 3 as a multiplication factor In all cases, supplemental analgesia (see below) should be made available in the form of immediate-release oral oxycodone or another suitable short-acting analgesic.