

**CENTER FOR DRUG EVALUATION AND RESEARCH**

**APPLICATION NUMBER 74976**

**FINAL PRINTED LABELING**

GENPHARM INC.

100 Tablets  
Unit Dose

Caution: Federal law prohibits dispensing without prescription  
This unit-dose package is not child resistant



TABLETS



ACYCLOVIR



UNIT DOSE  
10 strips of  
10 blisters

NDC 55567-037-06

003-788 REV #00



APR 13 1998

APPROVED

For indications, dosage, precautions, etc., see enclosed  
package insert. This package is not child resistant. If  
dispensed for outpatient use, a child resistant container  
should be utilized.  
Store at 15° to 25°C (59° to 77°F) and protect from light  
and moisture.

**NDC 55567-037-06**

**UNIT DOSE**

**10 strips of  
10 blisters**

**ACYCLOVIR**

**TABLETS**

**Caution: Federal law prohibits dispensing without prescription**



Manufactured by:  
**GENPHARM INC.**  
Toronto, Canada M8Z 2S6  
1-800-661-7134

**100 Tablets  
Unit Dose**

**NDC 55567-037-06**

**UNIT DOSE**

**10 strips of  
10 blisters**

**ACYCLOVIR**

**TABLETS**

**Caution: Federal law prohibits dispensing without prescription**

**This unit-dose package is not child resistant**

**GENPHARM INC.**

**100 Tablets  
Unit Dose**

Each tablet contains:  
Acyclovir 400 mg

Store at 15° to 25°C (59° to 77°F).  
Dispense in a tight, light-resistant  
container as defined in the U.S.P.

For indications, dosage, precautions, etc.,  
see accompanying package insert.

Package not child resistant.

Printed in Canada 003-784 REV. #00

NDC 55567-036-18 100 Tablets

**ACYCLOVIR**

Tablets

Caution: Federal law prohibits  
dispensing without prescription.



Manufactured by:  
**GENPHARM INC.**  
Toronto, Canada  
M8Z 2S6  
1-800-661-7134



Each tablet contains:  
Acyclovir 800 mg

Store at 15° to 25°C (59° to 77°F).  
Dispense in a tight, light-resistant  
container as defined in the U.S.P.

For indications, dosage, precautions, etc.,  
see accompanying package insert.

Package not child resistant.

Printed in Canada 003-783 REV. #00

NDC 55567-037-18 100 Tablets

**ACYCLOVIR**

Tablets

APR 13 1998

Caution: Federal law prohibits  
dispensing without prescription.



Manufactured by:  
**GENPHARM INC.**  
Toronto, Canada  
M8Z 2S6  
1-800-661-7134





ACYCLOVIR

LOT

ACYCLOVIR  
TABLET  
800 mg

ACYCLOVIR  
TABLET  
800 mg

ACYCLOVIR  
TABLET  
800 mg

ACYCLOVIR  
TABLET  
800 mg

Glaxo Inc.  
Toronto, Canada

Glaxo Inc.  
Toronto, Canada

Tham, E.  
Glaxo Inc.  
Toronto, Canada



00378602

# ACYCLOVIR Capsules

# ACYCLOVIR Tablets

00378602



## DESCRIPTION

Acyclovir is an antiviral drug. Acyclovir Capsules and Tablets are formulations for oral administration. Each capsule of acyclovir contains 200 mg of acyclovir and the inactive ingredients pregelatinized starch, lactose monohydrate, magnesium stearate, and sodium lauryl sulfate. The capsule shell consists of gelatin, FD&C Blue No. 1, titanium dioxide, silicon dioxide and sodium lauryl sulphate. Printed with edible black ink. The contents of the edible black ink are synthetic black iron oxide, FD&C Blue No. 2 Aluminum lake, FD&C Red No. 40 Aluminum lake, FD&C Blue No. 1 Aluminum lake, and D&C Yellow No. 10 Aluminum lake.

Each 800 mg tablet of acyclovir contains 800 mg of acyclovir and the inactive ingredients FD&C Blue No. 2 Aluminum Lake, magnesium stearate, microcrystalline cellulose, povidone, and sodium starch glycolate.

Each 400 mg tablet of acyclovir contains 400 mg of acyclovir and the inactive ingredients magnesium stearate, microcrystalline cellulose, povidone, and sodium starch glycolate.

The chemical name of acyclovir is 2-amino-1,9-dihydro-9-[(2-hydroxyethoxy)methyl]6-H-purin-6-one; it has the following structural formula:



Chemical formula:  $C_8H_{11}N_5O_3$

Acyclovir is a white to off-white crystalline powder with a molecular weight of 225.21. The maximum solubility in water at 37°C is 2.5 mg/mL. The pKa's of acyclovir are 2.27 and 9.25.

## VIROLOGY:

**Mechanism of Antiviral Action:** Acyclovir is a synthetic purine nucleoside analogue with *in vitro* and *in vivo* inhibitory activity against herpes simplex virus types 1 (HSV-1), 2 (HSV-2), and varicella-zoster virus (VZV). In cell culture, acyclovir's highest antiviral activity is against HSV-1, followed in decreasing order of potency against HSV-2 and VZV.

The inhibitory activity of acyclovir is highly selective due to its affinity for the enzyme thymidine kinase (TK) encoded by HSV and VZV. This viral enzyme converts acyclovir into acyclovir monophosphate, a nucleotide analogue. The monophosphate is further converted into diphosphate by cellular guanylate kinase and into triphosphate by a number of cellular enzymes. *In vitro*, acyclovir triphosphate stops replication of herpes viral DNA. This is accomplished in three ways: 1) competitive inhibition of viral DNA polymerase, 2) incorporation into and termination of the growing viral DNA chain, and 3) inactivation of the viral DNA polymerase. The greater antiviral activity of acyclovir against HSV compared to VZV is due to its more efficient phosphorylation by the viral TK.

**Antiviral Activities:** The quantitative relationship between the *in vitro* susceptibility of herpes viruses to antivirals and the clinical response to therapy has not been established in humans, and virus sensitivity testing has not been standardized. Sensitivity testing results, expressed as the concentration of drug required to inhibit by 50% the growth of virus in cell culture ( $IC_{50}$ ), vary greatly depending upon a number of factors. Using plaque-reduction assays, the  $IC_{50}$  against herpes simplex virus isolates ranges from 0.02 to 13.5 mcg/mL for HSV-1 and from 0.01 to 9.9 mcg/mL for HSV-2. The  $IC_{50}$  for acyclovir against most laboratory strains and clinical isolates of VZV ranges from 0.12 to 10.8 mcg/mL.

Acyclovir also demonstrates activity against the Oka vaccine strain of VZV with a mean  $IC_{50}$  of 1.35 mcg/mL.

**Drug Resistance:** Resistance of VZV to antiviral nucleoside analogues can result from qualitative or quantitative changes in the viral TK or DNA polymerase. Clinical isolates of VZV with reduced susceptibility to acyclovir have been recovered from patients with AIDS. In these cases, TK-deficient mutants of VZV have been recovered.

Resistance of HSV to antiviral nucleoside analogues occurs by the same mechanisms as resistance to VZV. While most of the acyclovir-resistant mutants isolated thus far from immunocompromised patients have been found to be TK-deficient mutants, other mutants involving the viral TK gene (TK partial and TK altered) and DNA polymerase have also been isolated. TK-negative mutants may cause severe disease in immunocompromised patients. The possibility of viral resistance to acyclovir should be considered in patients who show poor clinical response during therapy.

## CLINICAL PHARMACOLOGY:

**Pharmacokinetics:** The pharmacokinetics of acyclovir after oral administration have been evaluated in healthy volunteers and in immunocompromised patients with herpes simplex or varicella-zoster virus infection. Acyclovir pharmacokinetic parameters are summarized in Table 1.

excretion and renal clearance were correspondingly reduced.

**Clinical Trials: Initial Genital Herpes:** Double-blind, placebo-controlled studies have demonstrated that orally administered acyclovir significantly reduced the duration of acute infection and duration of lesion healing. The duration of pain and new lesion formation was decreased in some patient groups.

**Recurrent Genital Herpes:** Double-blind, placebo-controlled studies in patients with frequent recurrences (six or more episodes per year) have shown that orally administered acyclovir given daily for 4 months to 10 years prevented or reduced the frequency and/or severity of recurrences in greater than 95% of patients.

In a study of patients who received acyclovir 400 mg twice daily for 3 years, 45%, 52%, and 63% of patients remained free of recurrences in the first, second, and third years, respectively. Serial analyses of the 3-month recurrence rates for the patients showed that 71% to 87% were recurrence-free in each quarter.

**Herpes Zoster Infections:** In a double-blind, placebo-controlled study of immunocompetent patients with localized cutaneous zoster infection, acyclovir (800 mg five times daily for 10 days) shortened the times to lesion scabbing, healing, and complete cessation of pain, and reduced the duration of viral shedding and the duration of new lesion formation.

In a similar double-blind, placebo-controlled study, acyclovir (800 mg five times daily for 7 days) shortened the times to complete lesion scabbing, healing, and cessation of pain, reduced the duration of new lesion formation, and reduced the prevalence of localized zoster-associated neurologic symptoms (paresthesia, dysesthesia, or hyperesthesia).

Treatment was begun within 72 hours of rash onset and was most effective if started within the first 48 hours.

Adults greater than 50 years of age showed greater benefit.

**Chickenpox:** Three randomized, double-blind, placebo-controlled trials were conducted in 993 patients ages 2 to 18 years with chickenpox. All patients were treated within 24 hours after the onset of rash. In two trials, acyclovir was administered at 20 mg/kg four times daily (up to 3,200 mg per day) for 5 days. In the third trial, doses of 10, 15 or 20 mg/kg were administered four times daily for 5 to 7 days. Treatment with acyclovir shortened the time to 50% healing, reduced the maximum number of lesions, reduced the median number of vesicles, decreased the median number of residual lesions on day 28, and decreased the proportion of patients with fever, anorexia, and lethargy by day 2. Treatment with acyclovir did not affect varicella-zoster virus-specific humoral or cellular immune responses at 1 month or 1 year following treatment.

## INDICATIONS AND USAGE:

**Herpes Zoster Infections:** Acyclovir is indicated for the acute treatment of herpes zoster (shingles).

**Genital herpes:** Acyclovir is indicated for the treatment of initial episodes and the management of recurrent episodes of genital herpes.

**Chickenpox:** Acyclovir is indicated for the treatment of chickenpox (varicella).

**CONTRAINDICATIONS:** Acyclovir is contraindicated for

clinical isolates of VZV ranges from 0.12 to 10.5 mcg/mL.

Acyclovir also demonstrates activity against the Oka vaccine strain of VZV with a mean  $IC_{50}$  of 1.35 mcg/mL.

**Drug Resistance:** Resistance of VZV to antiviral nucleoside analogues can result from qualitative or quantitative changes in the viral TK or DNA polymerase. Clinical isolates of VZV with reduced susceptibility to acyclovir have been recovered from patients with AIDS. In these cases, TK-deficient mutants of VZV have been recovered.

Resistance of HSV to antiviral nucleoside analogues occurs by the same mechanisms as resistance to VZV. While most of the acyclovir-resistant mutants isolated thus far from immunocompromised patients have been found to be TK-deficient mutants, other mutants involving the viral TK gene (TK partial and TK altered) and DNA polymerase have also been isolated. TK-negative mutants may cause severe disease in immunocompromised patients. The possibility of viral resistance to acyclovir should be considered in patients who show poor clinical response during therapy.

#### CLINICAL PHARMACOLOGY:

**Pharmacokinetics:** The pharmacokinetics of acyclovir after oral administration have been evaluated in healthy volunteers and in immunocompromised patients with herpes simplex or varicella-zoster virus infection. Acyclovir pharmacokinetic parameters are summarised in Table 1.

**Table 1: Acyclovir Pharmacokinetic Characteristics (Range)**

Parameter	Range
Plasma protein binding	9% to 33%
Plasma elimination half-life	2.5 to 3.3 hr
Average oral bioavailability	10% to 20%*

\*Bioavailability decreases with increasing dose.

In one multiple-dose, cross-over study in healthy subjects (n=23), it was shown that increases in plasma acyclovir concentrations were less than dose proportional with increasing dose, as shown in Table 2. The decrease in bioavailability is a function of the dose and not the dosage form.

**Table 2: Acyclovir Peak and Trough Concentrations at Steady State**

Parameter	200 mg	400 mg	800 mg
CSS	0.83 mcg/mL	1.21 mcg/mL	1.61 mcg/mL
CSS Trough	0.46 mcg/mL	0.63 mcg/mL	0.83 mcg/mL

There was no effect of food on the absorption of acyclovir (n=6); therefore, Acyclovir Capsules and Tablets may be administered with or without food.

The only known urinary metabolite is 9-[(carboxymethoxy)methyl]guanine.

#### Special Populations: Adults with Impaired Renal Function:

The half-life and total body clearance of acyclovir are dependent on renal function. A dosage adjustment is recommended for patients with reduced renal function (see DOSAGE AND ADMINISTRATION).

**Pediatrics:** In general, the pharmacokinetics of acyclovir in pediatric patients is similar to that of adults. Mean half-life after oral doses of 300 mg/m<sup>2</sup> and 600 mg/m<sup>2</sup> in pediatric patients ages 7 months to 7 years was 2.6 hours (range 1.59 to 3.74 hours).

**Drug Interactions:** Co-administration of probenecid with intra-venous acyclovir has been shown to increase acyclovir half-life and systemic exposure. Urinary

Acyclovir greater than 50 years of age showed greater benefit.

**Chickenpox:** Three randomized, double-blind, placebo-controlled trials were conducted in 993 patients ages 2 to 18 years with chickenpox. All patients were treated within 24 hours after the onset of rash. In two trials, acyclovir was administered at 20 mg/kg four times daily (up to 3,200 mg per day) for 5 days. In the third trial, doses of 10, 15 or 20 mg/kg were administered four times daily for 5 to 7 days. Treatment with acyclovir shortened the time to 50% healing, reduced the maximum number of lesions, reduced the median number of vesicles, decreased the median number of residual lesions on day 28, and decreased the proportion of patients with fever, anorexia, and lethargy by day 2. Treatment with acyclovir did not affect varicella-zoster virus-specific humoral or cellular immune responses at 1 month or 1 year following treatment.

#### INDICATIONS AND USAGE:

**Herpes Zoster Infections:** Acyclovir is indicated for the acute treatment of herpes zoster (shingles).

**Genital herpes:** Acyclovir is indicated for the treatment of initial episodes and the management of recurrent episodes of genital herpes.

**Chickenpox:** Acyclovir is indicated for the treatment of chickenpox (varicella).

**CONTRAINDICATIONS:** Acyclovir is contraindicated for patients who develop hypersensitivity or intolerance to the components of the formulations.

**WARNINGS:** Acyclovir Capsules and Tablets are intended for oral ingestion only.

**PRECAUTIONS:** Dosage adjustment is recommended when administering acyclovir to patients with renal impairment (see DOSAGE AND ADMINISTRATION). Caution should also be exercised when administering acyclovir to patients receiving potentially nephro-toxic agents since this may increase the risk of renal dysfunction and/or the risk of reversible central nervous system symptoms such as those that have been reported in patients treated with intravenous acyclovir.

**Information for Patients:** Patients are instructed to consult with their physician if they experience severe or troublesome adverse reactions, they become pregnant or intend to become pregnant, they intend to breastfeed while taking orally administered acyclovir, or they have any other questions.

**Herpes Zoster:** There are no data on treatment initiated more than 72 hours after onset of the zoster rash. Patients should be advised to initiate treatment as soon as possible after a diagnosis of herpes zoster.

**Genital Herpes Infections:** Patients should be informed that acyclovir is not a cure for genital herpes. There are no data evaluating whether acyclovir will prevent transmission of infection to others. Because genital herpes is a sexually transmitted disease, patients should avoid contact with lesions or intercourse when lesions and/or symptoms are present to avoid infecting partners.

Genital herpes can also be transmitted in the absence of symptoms through asymptomatic viral shedding. If medical management of a genital herpes recurrence is indicated, patients should be advised to initiate therapy at the first sign or symptom of an episode.

**Chickenpox:** Chickenpox in otherwise healthy children is usually a self-limited disease of mild to moderate severity. Adolescents and adults tend to have more severe disease. Treatment was initiated within 24 hours of the typical chickenpox rash in the controlled studies, and there is no information regarding the effects of treatment begun later in the disease course.

**Drug Interactions:** See CLINICAL PHARMACOLOGY: Pharmacokinetics.

**Carcinogenesis, Mutagenesis, Impairment of Fertility:** The data presented below include references to peak steady-state plasma acyclovir concentrations observed in humans treated with 800 mg given orally six times a day (dosing appropriate for treatment of herpes zoster) or 200 mg given orally six times a day (dosing appropriate for treatment of genital herpes). Plasma drug concentrations in apical studies are expressed as multiples of human exposure to acyclovir at the higher and lower dosing schedules (see CLINICAL PHARMACOLOGY, Pharmacokinetics).

Acyclovir was tested in lifetime bioassays in rats and mice at single daily doses of up to 450 mg/kg administered by gavage. There was no statistically significant difference in the incidence of tumors between treated and control animals, nor did acyclovir shorten the latency of tumors. Maximum plasma concentrations were three to six times human levels in the mouse bioassay and one to two times human levels in the rat bioassay.

Acyclovir was tested in 16 genetic toxicity assays. No evidence of mutagenicity was observed in four microbial assays. Acyclovir demonstrated mutagenic activity in two *in vitro* cytogenetic assays (one mouse lymphoma cell line and human lymphocytes). No mutagenic activity was observed in five *in vitro* cytogenetic assays (three Chinese hamster ovary cell lines and two mouse lymphoma cell lines).

A positive result was demonstrated in one of two *in vitro* cell transformation assays, and morphologically transformed cells obtained in this assay formed tumors when inoculated into immunosuppressed, syngeneic, weanling mice. No mutagenic activity was demonstrated in another, possibly less sensitive, *in vitro* cell transformation assay.

Acyclovir was clastogenic in Chinese hamsters at 380 to 760 times human dose levels. In rats, acyclovir produced a non-significant increase in chromosomal damage at 62 to 125 times human levels. No activity was observed in a dominant lethal study in mice at 36 to 73 times human levels.

Acyclovir did not impair fertility or reproduction in mice (450 mg/kg/day, p.o.) or in rats (25 mg/kg/day, s.c.). In the mouse study, plasma levels were 9 to 18 times human levels, while in the rat study, they were 8 to 15 times human levels. At higher doses (50 mg/kg/day, s.c.) in rats and rabbits (11 to 22 and 16 to 31 times human levels, respectively) implantation efficacy, but not litter size, was decreased. In a rat peri- and post-natal study at 50 mg/kg/day, s.c., there was a statistically significant decrease in group mean numbers of corpora lutea, total implantation sites, and live fetuses.

No testicular abnormalities were seen in dogs given 50 mg/kg/day, i.v. for 1 month (21 to 41 times human levels) or in dogs given 60 mg/kg/day orally for 1 year (six to 12 times human levels).

Testicular atrophy and aspermatogenesis were observed in rats and dogs at higher dose levels.

**Pregnancy: Teratogenic Effects:** Pregnancy Category B. Acyclovir was not teratogenic in the mouse (450 mg/kg/day, p.o.), rabbit (50 mg/kg/day, s.c. and i.v.), or rat (50 mg/kg/day, s.c.). These exposures resulted in plasma levels 9 and 18, 16 and 106, and 11 and 22 times, respectively, human levels. In a non-standard test, rats were given three s.c. doses of 100 mg/kg acyclovir on gestation day 10, resulting in plasma levels 63 and 125 times human levels. In this test, there were fetal abnormalities, such as head and tail anomalies, and maternal toxicity.

There are no adequate and well-controlled studies in pregnant women. A prospective, epidemiological registry of acyclovir use during pregnancy has been ongoing since 1984. As of June 1996, outcomes of live births have been documented in 494 women exposed to systemic acyclovir during the first trimester of pregnancy. The occurrence rate of birth defects approximates that found in the general population. However, the small size of the registry is insufficient to evaluate the risk for less common defects or to permit reliable and definitive conclusions regarding the safety of acyclovir in pregnant women and their developing fetuses. Acyclovir should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

**Nursing Mothers:** Acyclovir concentrations have been documented in breast milk in two women following oral administration of acyclovir and ranged from 0.6 to 4.1 times corresponding plasma levels. These concentrations would potentially expose the nursing infant to a dose of acyclovir as high as 0.3 mg/kg/day. Acyclovir should be administered to a nursing mother with caution and only when indicated.

**Geriatric Use:** Clinical studies of acyclovir did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently than younger patients. Other reported clinical experience

These events may also occur as part of the underlying disease process. Voluntary reports of adverse events which have been received since market introduction include:

**General:** fever, headache, pain, peripheral edema, and rarely, anaphylaxis  
**Nervous:** confusion, dizziness, hallucinations, paresthesia, seizure, somnolence (These symptoms may be marked, particularly in older adults)  
**Digestive:** diarrhea, elevated liver function tests, gastrointestinal distress, nausea  
**Hemic and Lymphatic:** leukopenia, lymphadenopathy  
**Musculoskeletal:** myalgia  
**Skin:** alopecia, pruritus, rash, urticaria  
**Special Senses:** visual abnormalities  
**Urogenital:** elevated creatinine

**OVERDOSAGE:** Patients have ingested intentional overdoses of up to 100 capsules (20 g) of acyclovir, with no unexpected adverse effects. Precipitation of acyclovir in renal tubules may occur when the solubility (2.5 mg/mL) is exceeded in the intratubular fluid. In the event of acute renal failure and anuria, the patient may benefit from hemodialysis until renal function is restored (see DOSAGE AND ADMINISTRATION).

**DOSAGE AND ADMINISTRATION:**

**Acute Treatment of Herpes Zoster:** 800 mg every 4 hours orally, five times daily for 7 to 10 days.

**Genital Herpes: Treatment of Initial Genital Herpes:** 200 mg every 4 hours, five times daily for 10 days.

**Chronic Suppressive Therapy for Recurrent Disease:** 400 mg two times daily for up to 12 months, followed by re-evaluation. Alternative regimens have included doses ranging from 200 mg three times daily to 200 mg five times daily.

The frequency and severity of episodes of untreated genital herpes may change over time. After 1 year of therapy, the frequency and severity of the patient's genital herpes infection should be re-evaluated to assess the need for continuation of therapy with acyclovir.

**Intermittent Therapy:** 200 mg every 4 hours, five times daily for 5 days. Therapy should be initiated at the earliest sign or symptom (prodrome) of recurrence.

**Treatment of Chickenpox: Children (2 years of age and older):** 20 mg/kg per dose orally four times daily (80 mg/kg/day) for 5 days. Children over 40 kg should receive the adult dose for chickenpox.

**Adults and Children over 40 kg:** 800 mg four times daily for 5 days.

Intravenous acyclovir is indicated for the treatment of varicella-zoster infections in immunocompromised patients.

When therapy is indicated, it should be initiated at the earliest sign or symptom of chickenpox. There is no information about the efficacy of therapy initiated more than 24 hours after onset of signs and symptoms.

**Patients With Acute or Chronic Renal Impairment:** In patients with renal impairment, the dose of Acyclovir Capsules or Tablets should be modified as shown in Table 3:

**Table 3: Dosage Modification for Renal Impairment**

Normal Dosage Regimen	Creatinine Clearance (mL/min/1.73 m <sup>2</sup> )	Adjusted Dosage Regimen	
		Dose (mg)	Dosing Interval
200 mg every 4 hours	> 10	200	every 4 hours, 5 x daily
	0 - 10	200	every 12 hours
400 mg every 12 hours	> 10	400	every 12 hours
	0 - 10	200	every 12 hours
800 mg every 4 hours	> 25	800	every 4 hours, 5 x daily
	10 - 25	800	every 8 hours
	0 - 10	800	every 12 hours

**Hemodialysis:** For patients who require hemodialysis, the mean plasma half-life of acyclovir during hemodialysis is approximately 5 hours. This results in a 60% decrease in plasma concentrations following a 6-hour dialysis period. Therefore, the patient's dosing schedule should be adjusted so that an additional dose is administered after each dialysis.

**Peritoneal Dialysis:** No supplemental dose appears to be necessary after adjustment of the dosing interval.

**Bioequivalence of Dosage Forms:** Acyclovir suspension was shown to be bioequivalent to acyclovir capsules (n=20) and one acyclovir 800 mg tablet was shown to be bioequivalent to four acyclovir 200 mg capsules (n=24).

**HOW SUPPLIED:** Acyclovir Capsules (blue, opaque cap and body) containing 200 mg of acyclovir and printed with "G" on the cap and "0034" on the body - Bottle of 100 (NDC 55567-034-18) and unit dose pack

the risk for less common defects or to permit reliable and definitive conclusions regarding the safety of acyclovir in pregnant women and their developing fetuses. Acyclovir should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

**Nursing Mothers:** Acyclovir concentrations have been documented in breast milk in two women following oral administration of acyclovir and ranged from 0.6 to 4.1 times corresponding plasma levels. These concentrations would potentially expose the nursing infant to a dose of acyclovir as high as 0.3 mg/kg/day. Acyclovir should be administered to a nursing mother with caution and only when indicated.

**Geriatric Use:** Clinical studies of acyclovir did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently than younger patients. Other reported clinical experience has not identified differences in responses between elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased renal function, and of concomitant disease or other drug therapy.

**Pediatric Use:** Safety and effectiveness in pediatric patients less than 2 years of age have not been adequately studied.

**ADVERSE REACTIONS:**

**Herpes Simplex: Short-Term Administration:** The most frequent adverse events reported during clinical trials of treatment of genital herpes with acyclovir 200 mg administered orally five times daily every 4 hours for 10 days were nausea and/or vomiting in 8 of 298 patient treatments (2.7%). Nausea and/or vomiting occurred in 2 of 287 (0.7%) patients who received placebo.

**Long-Term Administration:** The most frequent adverse events reported in a clinical trial for the prevention of recurrences with continuous administration of 400 mg (two 200 mg capsules) two times daily for 1 year in 588 patients treated with acyclovir were nausea (4.8%) and diarrhea (2.4%). The 589 control patients receiving intermittent treatment of recurrences with acyclovir for 1 year reported diarrhea (2.7%), nausea (2.4%), and headache (2.2%).

**Herpes Zoster:** The most frequent adverse event reported during three clinical trials of treatment of herpes zoster (shingles) with 800 mg of oral acyclovir five times daily for 7 to 10 days in 323 patients was malaise (11.5%). The 323 placebo recipients reported malaise (11.1%).

**Chickenpox:** The most frequent adverse event reported during three clinical trials of treatment of chickenpox with oral acyclovir at doses of 10 to 20 mg/kg four times daily for 5 to 7 days or 800 mg four times daily for 5 days in 495 patients was diarrhea (3.2%). The 498 patients receiving placebo reported diarrhea (2.2%).

**Observed During Clinical Practice:** Based on clinical practice experience in patients treated with oral Acyclovir in the U.S., spontaneously reported adverse events are uncommon. Data are insufficient to support an estimate of their incidence or to establish causation.

sis is approximately 5 hours. This results in a 60% decrease in plasma concentrations following a 6-hour dialysis period. Therefore, the patient's dosing schedule should be adjusted so that an additional dose is administered after each dialysis.

**Peritoneal Dialysis:** No supplemental dose appears to be necessary after adjustment of the dosing interval.

**Bioequivalence of Dosage Forms:** Acyclovir suspension was shown to be bioequivalent to acyclovir capsules (n=20) and one acyclovir 800 mg tablet was shown to be bioequivalent to four acyclovir 200 mg capsules (n=24).

**HOW SUPPLIED:** Acyclovir Capsules (blue, opaque cap and body) containing 200 mg of acyclovir and printed with "G" on the cap and "0034" on the body - Bottle of 100 (NDC 55567-034-18) and unit dose pack of 100 (NDC 55567-034-06).

Store at 15° to 25°C (59° to 77°F) and protect from light and moisture.

Acyclovir Tablets (blue, oval, unscored tablet) containing 800 mg acyclovir and engraved with "G" on one side and "0037" on the other - Bottle of 100 (NDC 55567-037-18) and unit dose pack of 100 (NDC 55567-037-06).

Store at 15° to 25°C (59° to 77°F) and protect from light and moisture.

Acyclovir Tablets (white, 5 sided, unscored tablet) containing 400 mg acyclovir and engraved with "G" over "0036" on one side - Bottle of 100 (NDC 55567-036-18).

Store at 15° to 25°C (59° to 77°F) and protect from light and moisture.

**CAUTION:** Federal law prohibits dispensing without prescription.

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Printed in Canada.

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