

VALACYCLOVIR HYDROCHLORIDE - valacyclovir hydrochloride tablet, coated
Life Line Home Care Services, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use valacyclovir hydrochloride tablets safely and effectively. See full prescribing information for valacyclovir hydrochloride tablets.

Valacyclovir hydrochloride tablets

Initial U.S. Approval: 1995

RECENT MAJOR CHANGES -----

Warnings and Precautions, Central Nervous System Effects (5.3) 3/2010

INDICATIONS AND USAGE -----

Valacyclovir hydrochloride tablets are a nucleoside analogue DNA polymerase inhibitor indicated for:

Adult Patients (1.1)

- Cold Sores (Herpes Labialis)
- Genital Herpes
 - Treatment in immunocompetent patients (initial or recurrent episode)
 - Suppression in immunocompetent or HIV-infected patients
 - Reduction of transmission

- Herpes Zoster

Pediatric Patients (1.2)

- Cold Sores (Herpes Labialis)

Limitations of Use (1.3)

- The efficacy and safety of valacyclovir hydrochloride tablets have not been established in immunocompromised patients other than for the suppression of genital herpes in HIV-infected patients.

DOSAGE AND ADMINISTRATION -----

Adult Dosage (2.1)	
Cold Sores	2 grams every 12 hours for 1 day
Genital Herpes	
Initial Episode	1 gram twice daily for 10 days
Recurrent Episodes	500 mg twice daily for 3 days
Suppressive therapy	
Immunocompetent patients	1 gram once daily
Alternate dose in patients	500 mg once daily
with ≤ 9 recurrences/yr	
HIV-infected patients	500 mg twice daily
Reduction of transmission	500 mg once daily
Herpes Zoster	1 gram 3 times daily for 7 days
Pediatric Dosage (2.2)	
Cold Sores (≥ 12 years of age)	2 grams every 12 hours for 1 day
Labeling describing use of valacyclovir HCL in pediatric patients with chickenpox (ages 2 to ≤ 18 years) is approved for GlaxoSmith Kline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, a description of that pediatric use is not approved for this valacyclovir HCL tablet product.	

DOSAGE FORMS AND STRENGTHS -----

Tablets: 500 mg (unscored), 1 gram (partially scored) (3)

CONTRAINDICATIONS -----

Hypersensitivity to valacyclovir (e.g., anaphylaxis), acyclovir, or any component of the formulation. (4)

WARNINGS AND PRECAUTIONS -----

- Thrombotic thrombocytopenic purpura/hemolytic uremic syndrome (TTP/HUS): Has occurred in patients with advanced HIV disease and in allogeneic bone marrow transplant and renal transplant patients receiving 8 grams per day of valacyclovir hydrochloride tablets in clinical trials. Discontinue treatment if clinical symptoms and laboratory findings consistent with TTP/HUS occur. (5.1)
- Acute renal failure: May occur in elderly patients (with or without reduced renal function), patients with underlying renal

disease who receive higher than recommended doses of valacyclovir hydrochloride tablets for their level of renal function, patients who receive concomitant nephrotoxic drugs, or inadequately hydrated patients. Use with caution in elderly patients and reduce dosage in patients with renal impairment. (2.4, 5.2)

- Central nervous system adverse reactions (e.g., agitation, hallucinations, confusion, and encephalopathy): May occur in both adult and pediatric patients (with or without reduced renal function) and in patients with underlying renal disease who receive higher than recommended doses of valacyclovir hydrochloride tablets for their level of renal function. Elderly patients are more likely to have central nervous system adverse reactions. Use with caution in elderly patients and reduce dosage in patients with renal impairment. (2.4, 5.3)

----- **ADVERSE REACTIONS** -----

- The most common adverse reactions reported in at least one indication by >10% of adult patients treated with valacyclovir hydrochloride tablets and more commonly than in patients treated with placebo are headache, nausea, and abdominal pain. (6.1)
- The only adverse reaction occurring in >10% of pediatric patients <18 years of age was headache. (6.2)

To report SUSPECTED ADVERSE REACTIONS, contact Watson Laboratories, Inc. at 1-800-272-5525 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 3/2012

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Adult Patients

Cold Sores (Herpes Labialis): Valacyclovir hydrochloride tablets are indicated for treatment of cold sores (herpes labialis). The efficacy of valacyclovir hydrochloride tablets initiated after the development of clinical signs of a cold sore (e.g., papule, vesicle, or ulcer) has not been established.

Genital Herpes: Initial Episode: Valacyclovir hydrochloride tablets are indicated for treatment of the initial episode of genital herpes in immunocompetent adults. The efficacy of treatment with valacyclovir hydrochloride tablets when initiated more than 72 hours after the onset of signs and symptoms has not been established.

Recurrent Episodes: Valacyclovir hydrochloride tablets are indicated for treatment of recurrent episodes of genital herpes in immunocompetent adults. The efficacy of treatment with valacyclovir hydrochloride tablets when initiated more than 24 hours after the onset of signs and symptoms has not been established.

Suppressive Therapy: Valacyclovir hydrochloride tablets are indicated for chronic suppressive therapy of recurrent episodes of genital herpes in immunocompetent and in HIV-infected adults. The efficacy and safety of valacyclovir hydrochloride tablets for the suppression of genital herpes beyond 1 year in immunocompetent patients and beyond 6 months in HIV-infected patients have not been established.

Reduction of Transmission: Valacyclovir hydrochloride tablets are indicated for the reduction of transmission of genital herpes in immunocompetent adults. The efficacy of valacyclovir hydrochloride tablets for the reduction of transmission of genital herpes beyond 8 months in discordant couples has not been established. The efficacy of valacyclovir hydrochloride tablets for the reduction of transmission of genital herpes in individuals with multiple partners and non-heterosexual couples has not been established. Safer sex practices should be used with suppressive therapy (see current Centers for Disease Control and Prevention [CDC] *Sexually Transmitted Diseases Treatment Guidelines*).

Herpes Zoster: Valacyclovir hydrochloride tablets are indicated for the treatment of herpes zoster (shingles) in immunocompetent adults. The efficacy of valacyclovir hydrochloride tablets when initiated more than 72 hours after the onset of rash and the efficacy and safety of valacyclovir hydrochloride tablets for treatment of disseminated herpes zoster have not been established.

1.2 Pediatric Patients

Cold Sores (Herpes Labialis): Valacyclovir hydrochloride tablets are indicated for the treatment of cold sores (herpes labialis) in pediatric patients ≥ 12 years of age. The efficacy of valacyclovir hydrochloride tablets initiated after the development of clinical signs of a cold sore (e.g., papule, vesicle, or ulcer) has not been established.

Labeling describing use of valacyclovir HCL in pediatric patients with chickenpox (ages 2 to ≤ 18 years) is approved for GlaxoSmithKline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, a description of that pediatric use is not approved for this valacyclovir HCL tablet product.

1.3 Limitations of Use

The efficacy and safety of valacyclovir hydrochloride tablets have not been established in:

- Immunocompromised patients other than for the suppression of genital herpes in HIV-infected patients with a CD4+ cell count ≥ 100 cells/mm³.
- Patients <12 years of age with cold sores (herpes labialis).
- Patients <18 years of age with genital herpes.
- Patients <18 years of age with herpes zoster.
- Neonates and infants as suppressive therapy following neonatal herpes simplex virus (HSV) infection.

Labeling describing use of valacyclovir HCL in pediatric patients with chickenpox (ages of 2 to ≤ 18 years) is approved for GlaxoSmithKline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, a description of that pediatric use is not approved for this valacyclovir HCL tablet product.

2 DOSAGE AND ADMINISTRATION

- Valacyclovir hydrochloride tablets may be given without regard to meals.

Labeling describing use of valacyclovir HCL in pediatric patients for whom a solid dosage form is not appropriate is approved for GlaxoSmithKline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, a description of that information is not approved for this valacyclovir HCL tablet product.

2.1 Adult Dosing Recommendations

Cold Sores (Herpes Labialis): The recommended dosage of valacyclovir hydrochloride tablets for treatment of cold sores is 2 grams twice daily for 1 day taken 12 hours apart. Therapy should be initiated at the earliest symptom of a cold sore (e.g., tingling, itching, or burning).

Genital Herpes: Initial Episode: The recommended dosage of valacyclovir hydrochloride tablets for treatment of initial genital herpes is 1 gram twice daily for 10 days. Therapy was most effective when administered within 48 hours of the onset of signs and symptoms.

Recurrent Episodes: The recommended dosage of valacyclovir hydrochloride tablets for treatment of recurrent genital herpes is 500 mg twice daily for 3 days. Initiate treatment at the first sign or symptom of an episode.

Suppressive Therapy: The recommended dosage of valacyclovir hydrochloride tablets for chronic suppressive therapy of recurrent genital herpes is 1 gram once daily in patients with normal immune function. In patients with a history of 9 or fewer recurrences per year, an alternative dose is 500 mg once daily.

In HIV-infected patients with a CD4+ cell count ≥ 100 cells/mm³, the recommended dosage of valacyclovir hydrochloride tablets for chronic suppressive therapy of recurrent genital herpes is 500 mg twice daily.

Reduction of Transmission: The recommended dosage of valacyclovir hydrochloride tablets for reduction of transmission of genital herpes in patients with a history of 9 or fewer recurrences per year is 500 mg once daily for the source partner.

Herpes Zoster: The recommended dosage of valacyclovir hydrochloride tablets for treatment of herpes zoster is 1 gram 3 times daily for 7 days. Therapy should be initiated at the earliest sign or symptom of herpes zoster and is most effective when started within 48 hours of the onset of rash.

2.2 Pediatric Dosing Recommendations

Cold Sores (Herpes Labialis): The recommended dosage of valacyclovir hydrochloride tablets for the treatment of cold sores in pediatric patients ≥ 12 years of age is 2 grams twice daily for 1 day taken 12 hours apart. Therapy should be initiated at the earliest symptom of a cold sore (e.g., tingling, itching, or burning).

Labeling describing additional dosing of valacyclovir HCL for pediatric patients with chickenpox is approved for GlaxoSmithKline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, a description of that additional dosing information is not approved for this valacyclovir HCL tablet product.

2.4 Patients With Renal Impairment

Dosage recommendations for adult patients with reduced renal function are provided in Table 1 [see Use in Specific Populations (8.5, 8.6), Clinical Pharmacology (12.3)]. Data are not available for the use of valacyclovir hydrochloride tablets in pediatric patients with a creatinine clearance < 50 mL/min/1.73 m².

Table 1. Valacyclovir Hydrochloride Tablets Dosage Recommendations for Adults With Renal Impairment

Indications	Normal Dosage Regimen (Creatinine Clearance ≥ 50 mL/min)	Creatinine Clearance (mL/min)		
		30 to 49	10 to 29	< 10
Cold sores (Herpes labialis) Do not exceed 1 day of treatment.	Two 2 gram doses taken 12 hours apart	Two 1 gram doses taken 12 hours apart	Two 500 mg doses taken 12 hours apart	500 mg single dose
Genital herpes: Initial Episode	1 gram every 12 hours	no reduction	1 gram every 24 hours	500 mg every 24 hours
Genital herpes: Recurrent episode	500 mg every 12 hours	no reduction	500 mg every 24 hours	500 mg every 24 hours
Genital herpes: Suppressive therapy				
Immunocompetent patients	1 gram every 24 hours	no reduction	500 mg every 24 hours	500 mg every 24 hours
Alternate dose for immunocompetent patients with ≤ 9 recurrences/year	500 mg every 24 hours	no reduction	500 mg every 48 hours	500 mg every 48 hours
HIV-Infected patients	500 mg every 12 hours	no reduction	500 mg every 24 hours	500 mg every 24 hours
Herpes zoster	1 gram every 8 hours	1 gram every 12 hours	1 gram every 24 hours	500 mg every 24 hours

Hemodialysis: Patients requiring hemodialysis should receive the recommended dose of valacyclovir hydrochloride tablets after hemodialysis. During hemodialysis, the half-life of acyclovir after administration of valacyclovir hydrochloride tablets is approximately 4 hours. About one third of acyclovir in the body is removed by dialysis during a 4-hour hemodialysis session.

Peritoneal Dialysis: There is no information specific to administration of valacyclovir hydrochloride tablets in patients receiving peritoneal dialysis. The effect of chronic ambulatory peritoneal dialysis (CAPD) and continuous arteriovenous hemofiltration/dialysis (CAVHD) on acyclovir pharmacokinetics has been studied. The removal of acyclovir after CAPD and CAVHD is

less pronounced than with hemodialysis, and the pharmacokinetic parameters closely resemble those observed in patients with end-stage renal disease (ESRD) not receiving hemodialysis. Therefore, supplemental doses of valacyclovir hydrochloride tablets should not be required following CAPD or CAVHD.

3 DOSAGE FORMS AND STRENGTHS

Tablets:

- 500 mg: blue, film-coated, capsule-shaped tablets debossed with “WPI” on one side and “3248” on the other side.
- 1 gram: blue, film-coated, capsule-shaped tablets, with a partial scorebar on both sides, debossed with “WPI” on one side and “3249” on the other side.

4 CONTRAINDICATIONS

Valacyclovir hydrochloride tablets are contraindicated in patients who have had a demonstrated clinically significant hypersensitivity reaction (e.g., anaphylaxis) to valacyclovir, acyclovir, or any component of the formulation [see *Adverse Reactions* (6.3)].

5 WARNINGS AND PRECAUTIONS

5.1 Thrombotic Thrombocytopenic Purpura/Hemolytic Uremic Syndrome (TTP/HUS)

TTP/HUS, in some cases resulting in death, has occurred in patients with advanced HIV disease and also in allogeneic bone marrow transplant and renal transplant recipients participating in clinical trials of valacyclovir hydrochloride tablets at doses of 8 grams per day. Treatment with valacyclovir hydrochloride tablets should be stopped immediately if clinical signs, symptoms, and laboratory abnormalities consistent with TTP/HUS occur.

5.2 Acute Renal Failure

Cases of acute renal failure have been reported in:

- Elderly patients with or without reduced renal function. Caution should be exercised when administering valacyclovir hydrochloride tablets to geriatric patients, and dosage reduction is recommended for those with impaired renal function [see *Dosage and Administration* (2.4), *Use in Specific Populations* (8.5)].
- Patients with underlying renal disease who received higher than recommended doses of valacyclovir hydrochloride tablets for their level of renal function. Dosage reduction is recommended when administering valacyclovir hydrochloride tablets to patients with renal impairment [see *Dosage and Administration* (2.4), *Use in Specific Populations* (8.6)].
- Patients receiving other nephrotoxic drugs. Caution should be exercised when administering valacyclovir hydrochloride tablets to patients receiving potentially nephrotoxic drugs.
- Patients without adequate hydration. Precipitation of acyclovir in renal tubules may occur when the solubility (2.5 mg/mL) is exceeded in the intratubular fluid. Adequate hydration should be maintained for all patients.

In the event of acute renal failure and anuria, the patient may benefit from hemodialysis until renal function is restored [see *Dosage and Administration* (2.4), *Adverse Reactions* (6.3)].

5.3 Central Nervous System Effects

Central nervous system adverse reactions, including agitation, hallucinations, confusion, delirium, seizures, and encephalopathy, have been reported in both adult and pediatric patients with or without reduced renal function and in patients with underlying renal disease who received higher than recommended doses of valacyclovir hydrochloride tablets for their level of renal function. Elderly patients are more likely to have central nervous system adverse reactions. Valacyclovir hydrochloride tablets should be discontinued if central nervous system adverse reactions occur [see *Adverse Reactions* (6.3), *Use in Specific Populations* (8.5, 8.6)].

6 ADVERSE REACTIONS

The following serious adverse reactions are discussed in greater detail in other sections of the labeling:

- Thrombotic Thrombocytopenic Purpura/Hemolytic Uremic Syndrome [see *Warnings and Precautions (5.1)*].
- Acute Renal Failure [see *Warnings and Precautions (5.2)*].
- Central Nervous System Effects [see *Warnings and Precautions (5.3)*].

The most common adverse reactions reported in at least 1 indication by >10% of adult patients treated with valacyclovir hydrochloride tablets and observed more frequently with valacyclovir hydrochloride tablets compared to placebo are headache, nausea, and abdominal pain. The only adverse reaction reported in >10% of pediatric patients <18 years of age was headache.

6.1 Clinical Trials Experience in Adult Patients

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

Cold Sores (Herpes Labialis): In clinical studies for the treatment of cold sores, the adverse reactions reported by patients receiving valacyclovir hydrochloride tablets 2 grams twice daily (n = 609) or placebo (n = 609) for 1 day, respectively, included headache (14%, 10%) and dizziness (2%, 1%). The frequencies of abnormal ALT (>2 x ULN) were 1.8% for patients receiving valacyclovir hydrochloride tablets compared with 0.8% for placebo. Other laboratory abnormalities (hemoglobin, white blood cells, alkaline phosphatase, and serum creatinine) occurred with similar frequencies in the 2 groups.

Genital Herpes: Initial Episode: In a clinical study for the treatment of initial episodes of genital herpes, the adverse reactions reported by ≥5% of patients receiving valacyclovir hydrochloride tablets 1 gram twice daily for 10 days (n = 318) or oral acyclovir 200 mg 5 times daily for 10 days (n = 318), respectively, included headache (13%, 10%) and nausea (6%, 6%). For the incidence of laboratory abnormalities see Table 2.

Recurrent Episodes: In 3 clinical studies for the episodic treatment of recurrent genital herpes, the adverse reactions reported by ≥5% of patients receiving valacyclovir hydrochloride tablets 500 mg twice daily for 3 days (n = 402), valacyclovir hydrochloride tablets 500 mg twice daily for 5 days (n = 1,136) or placebo (n = 259), respectively, included headache (16%, 11%, 14%) and nausea (5%, 4%, 5%). For the incidence of laboratory abnormalities see Table 2.

Suppressive Therapy: Suppression of Recurrent Genital Herpes in Immunocompetent Adults: In a clinical study for the suppression of recurrent genital herpes infections, the adverse reactions reported by patients receiving valacyclovir hydrochloride tablets 1 gram once daily (n = 269), valacyclovir hydrochloride tablets 500 mg once daily (n = 266), or placebo (n = 134), respectively, included headache (35%, 38%; 34%), nausea (11%, 11%, 8%), abdominal pain (11%, 9%, 6%), dysmenorrhea (8%, 5%, 4%), depression (7%, 5%, 5%), arthralgia (6%, 5%, 4%), vomiting (3%, 3%, 2%), and dizziness (4%, 2%, 1%). For the incidence of laboratory abnormalities see Table 2.

Suppression of Recurrent Genital Herpes in HIV-Infected Patients: In HIV-infected patients, frequently reported adverse reactions for valacyclovir hydrochloride tablets (500 mg twice daily; n = 194, median days on therapy = 172) and placebo (n = 99, median days on therapy = 59), respectively, included headache (13%, 8%), fatigue (8%, 5%), and rash (8%, 1%). Post-randomization laboratory abnormalities that were reported more frequently in valacyclovir subjects versus placebo included elevated alkaline phosphatase (4%, 2%), elevated ALT (14%, 10%), elevated AST (16%, 11%), decreased neutrophil counts (18%, 10%), and decreased platelet counts (3%, 0%), respectively.

Reduction of Transmission: In a clinical study for the reduction of transmission of genital herpes, the adverse reactions reported by patients receiving valacyclovir hydrochloride tablets 500 mg once daily (n = 743) or placebo once daily (n = 741), respectively, included headache (29%, 26%), nasopharyngitis (16%, 15%), and upper respiratory tract infection (9%, 10%).

Herpes Zoster: In 2 clinical studies for the treatment of herpes zoster, the adverse reactions reported by patients receiving valacyclovir hydrochloride tablets 1 gram 3 times daily for 7 to 14 days (n = 967) or placebo (n = 195), respectively, included nausea (15%, 8%), headache (14%, 12%), vomiting (6%, 3%), dizziness (3%, 2%), and abdominal pain (3%, 2%). For the incidence of laboratory abnormalities see Table 2.

Table 2. Incidence (%) of Laboratory Abnormalities in Herpes Zoster and Genital Herpes Study Populations

Laboratory Abnormality	Herpes Zoster		Genital Herpes Treatment			Genital Herpes Suppression		
	Valacyclovir HCl Tablets 1 gram 3 times daily (n = 967)	Placebo (n = 195)	Valacyclovir HCl Tablets 1 gram twice daily (n = 1,194)	Valacyclovir HCl Tablets 500 mg once daily (n = 1,159)	Placebo (n = 439)	Valacyclovir HCl Tablets 1 gram once daily (n = 269)	Valacyclovir HCl Tablets 500 mg once daily (n = 266)	Placebo (n = 134)
Hemoglobin (<0.8 x LLN)	0.8%	0%	0.3%	0.2%	0%	0%	0.8%	0.8%
White blood cells (<0.75 x LLN)	1.3%	0.6%	0.7%	0.6%	0.2%	0.7%	0.8%	1.5%
Platelet count (<100,000/mm ³)	1.0%	1.2%	0.3%	0.1%	0.7%	0.4%	1.1%	1.5%
AST (SGOT) (>2 x ULN)	1.0%	0%	1.0%		0.5%	4.1%	3.8%	3.0%
Serum creatinine (>1.5 x ULN)	0.2%	0%	0.7%	0%	0%	0%	0%	0%

LLN = Lower limit of normal.

ULN = Upper limit of normal.

6.2 Clinical Trials Experience in Pediatric Patients

Sixty-five pediatric patients, 12 to <18 years of age, received oral tablets for 1 to 2 days for treatment of cold sores. The frequency, intensity, and nature of clinical adverse reactions and laboratory abnormalities were similar to those seen in adults.

Pediatric Patients 12 to <18 Years of Age (Cold Sores): In clinical studies for the treatment of cold sores, the adverse reactions reported by adolescent patients receiving valacyclovir hydrochloride tablets 2 grams twice daily for 1 day, or valacyclovir hydrochloride tablets 2 grams twice daily for 1 day followed by 1 gram twice daily for 1 day (n = 65, across both dosing groups), or placebo (n = 30), respectively, included headache (17%, 3%) and nausea (8%, 0%).

Labeling describing additional clinical trial adverse reactions in pediatric patients (ages of 1 month to ≤ 12 years) is approved for GlaxoSmithKline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, a description of those adverse reactions is not approved for this valacyclovir HCL tablet product.

6.3 Postmarketing Experience

In addition to adverse events reported from clinical trials, the following events have been identified during postmarketing use of valacyclovir hydrochloride tablets. Because they are reported voluntarily from a population of unknown size, estimates of frequency cannot be made. These events have been chosen for inclusion due to a combination of their seriousness, frequency of reporting, or potential causal connection to valacyclovir hydrochloride tablets.

General: Facial edema, hypertension, tachycardia.

Allergic: Acute hypersensitivity reactions including anaphylaxis, angioedema, dyspnea, pruritus,

rash, and urticaria [see *Contraindications (4)*].

CNS Symptoms: Aggressive behavior; agitation; ataxia; coma; confusion; decreased consciousness; dysarthria; encephalopathy; mania; and psychosis, including auditory and visual hallucinations, seizures, tremors [see *Warnings and Precautions (5.3)*, *Use in Specific Populations (8.5)*, *(8.6)*].

Eye: Visual abnormalities.

Gastrointestinal: Diarrhea.

Hepatobiliary Tract and Pancreas: Liver enzyme abnormalities, hepatitis.

Renal: Renal failure, renal pain (may be associated with renal failure) [see *Warnings and Precautions (5.2)*, *Use in Specific Populations (8.5)*, *(8.6)*].

Hematologic: Thrombocytopenia, aplastic anemia, leukocytoclastic vasculitis, TTP/HUS [see *Warnings and Precautions (5.1)*].

Skin: Erythema multiforme, rashes including photosensitivity, alopecia.

7 DRUG INTERACTIONS

No clinically significant drug-drug or drug-food interactions with valacyclovir are known [see *Clinical Pharmacology (12.3)*].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Pregnancy Category B. There are no adequate and well-controlled studies of valacyclovir or acyclovir in pregnant women. Based on prospective pregnancy registry data on 749 pregnancies, the overall rate of birth defects in infants exposed to acyclovir *in utero* appears similar to the rate for infants in the general population. Valacyclovir hydrochloride tablets should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

A prospective epidemiologic registry of acyclovir use during pregnancy was established in 1984 and completed in April 1999. There were 749 pregnancies followed in women exposed to systemic acyclovir during the first trimester of pregnancy resulting in 756 outcomes. 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 or definitive conclusions regarding the safety of acyclovir in pregnant women and their developing fetuses.

Animal reproduction studies performed at oral doses that provided up to 10 and 7 times the human plasma levels during the period of major organogenesis in rats and rabbits, respectively, revealed no evidence of teratogenicity.

8.3 Nursing Mothers

Following oral administration of a 500 mg dose of valacyclovir hydrochloride tablets to 5 nursing mothers, peak acyclovir concentrations (C_{max}) in breast milk ranged from 0.5 to 2.3 times (median 1.4) the corresponding maternal acyclovir serum concentrations. The acyclovir breast milk AUC ranged from 1.4 to 2.6 times (median 2.2) maternal serum AUC. A 500 mg maternal dosage of valacyclovir hydrochloride tablets twice daily would provide a nursing infant with an oral acyclovir dosage of approximately 0.6 mg/kg/day. This would result in less than 2% of the exposure obtained after administration of a standard neonatal dose of 30 mg/kg/day of intravenous acyclovir to the nursing infant. Unchanged valacyclovir was not detected in maternal serum, breast milk, or infant urine. Caution should be exercised when valacyclovir hydrochloride tablets are administered to a nursing woman.

8.4 Pediatric Use

Valacyclovir hydrochloride tablets are indicated for treatment of cold sores in pediatric patients ≥ 12 years of age [see *Indications and Usage (1.2)*, *Dosage and Administration (2.2)*].

The use of valacyclovir hydrochloride tablets for treatment of cold sores is based on 2 double-

blind, placebo-controlled clinical trials in healthy adults and adolescents (≥ 12 years of age) with a history of recurrent cold sores [see *Clinical Studies (14.1)*].

The efficacy and safety of valacyclovir have not been established in pediatric patients:

- <12 years of age with cold sores
- <18 years of age with genital herpes
- <18 years of age with herpes zoster
- for suppressive therapy following neonatal HSV infection.

In infants 1 month to <3 months of age, mean acyclovir exposures resulting from a 25 mg/kg dose were higher (C_{\max} : $\uparrow 30\%$, AUC: $\uparrow 60\%$) than acyclovir exposures following a 1 gram dose of valacyclovir in adults.

Labeling describing pediatric use information in pediatric patients with chickenpox (ages 2 to ≤ 18 years) and additional pharmacokinetic studies in pediatric patients (ages 3 months to < 12 years) treated with valacyclovir HCL is approved for GlaxoSmithKline's Valtrex[®]* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, that additional pediatric information is not approved for this valacyclovir HCL tablet product.

8.5 Geriatric Use

Of the total number of subjects in clinical studies of valacyclovir hydrochloride tablets, 906 were 65 and over, and 352 were 75 and over. In a clinical study of herpes zoster, the duration of pain after healing (post-herpetic neuralgia) was longer in patients 65 and older compared with younger adults. Elderly patients are more likely to have reduced renal function and require dose reduction. Elderly patients are also more likely to have renal or CNS adverse events [see *Dosage and Administration (2.4)*, *Warnings and Precautions (5.2, 5.3)*, *Clinical Pharmacology (12.3)*].

8.6 Renal Impairment

Dosage reduction is recommended when administering valacyclovir hydrochloride tablets to patients with renal impairment [see *Dosage and Administration (2.4)*, *Warnings and Precautions (5.2, 5.3)*].

10 OVERDOSAGE

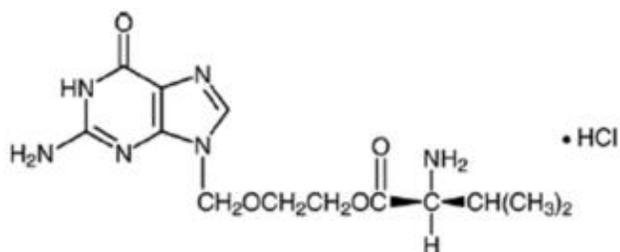
Caution should be exercised to prevent inadvertent overdose [see *Use in Specific Populations (8.5)*, *(8.6)*]. Precipitation of acyclovir in renal tubules may occur when the solubility (2.5 mg/mL) is exceeded in the intratubular fluid. In the event of acute renal failure and anuria, the patient may benefit from hemodialysis until renal function is restored [see *Dosage and Administration (2.4)*].

11 DESCRIPTION

Valacyclovir hydrochloride is the hydrochloride salt of the *L*-valyl ester of the antiviral drug acyclovir.

Valacyclovir hydrochloride tablets are blue, film-coated tablets for oral administration. Each tablet contains valacyclovir hydrochloride equivalent to 500 mg or 1 gram valacyclovir and the inactive ingredients croscarmellose sodium, FD&C Blue #2, hydrogenated castor oil, hypromellose, polyethylene glycol, polysorbate 80, starch (corn), and titanium dioxide.

The chemical name of valacyclovir hydrochloride is *L*-valine, 2-[(2-amino-1,6-dihydro-6-oxo-9*H*-purin-9-yl)methoxy]ethyl ester, monohydrochloride. It has the following structural formula:



Valacyclovir hydrochloride is a white to off-white powder with the molecular formula $C_{13}H_{20}N_6O_4 \cdot HCl$ and a molecular weight of 360.80. The maximum solubility in water at 25°C is 174 mg/mL. The pK_a s for valacyclovir hydrochloride are 1.90, 7.47, and 9.43.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Valacyclovir is an antiviral drug [see *Clinical Pharmacology* (12.4)].

12.3 Pharmacokinetics

The pharmacokinetics of valacyclovir and acyclovir after oral administration of valacyclovir hydrochloride tablets have been investigated in 14 volunteer studies involving 283 adults.

Labeling describing use of valacyclovir in pediatric patients with chickenpox (ages 1 month to < 12 years) is approved for GlaxoSmithKline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, that additional pediatric information is not approved for this valacyclovir HCL tablet product.

Pharmacokinetics in Adults: Absorption and Bioavailability: After oral administration, valacyclovir hydrochloride is rapidly absorbed from the gastrointestinal tract and nearly completely converted to acyclovir and *L*-valine by first-pass intestinal and/or hepatic metabolism.

The absolute bioavailability of acyclovir after administration of valacyclovir hydrochloride tablets is 54.5% ± 9.1% as determined following a 1 gram oral dose of valacyclovir and a 350 mg intravenous acyclovir dose to 12 healthy volunteers. Acyclovir bioavailability from the administration of valacyclovir hydrochloride tablets is not altered by administration with food (30 minutes after an 873 Kcal breakfast, which included 51 grams of fat).

Acyclovir pharmacokinetic parameter estimates following administration of valacyclovir hydrochloride tablets to healthy adult volunteers are presented in Table 3. There was a less than dose-proportional increase in acyclovir maximum concentration (C_{max}) and area under the acyclovir concentration-time curve (AUC) after single-dose and multiple-dose administration (4 times daily) of valacyclovir hydrochloride tablets from doses between 250 mg to 1 gram.

There is no accumulation of acyclovir after the administration of valacyclovir at the recommended dosage regimens in adults with normal renal function.

Table 3. Mean (±SD) Plasma Acyclovir Pharmacokinetic Parameters Following Administration of Valacyclovir Hydrochloride Tablets to Healthy Adult Volunteers

Dose	Single-Dose Administration (N = 8)		Multiple-Dose Administration (N = 24, 8 per treatment arm)	
	C_{max} (±SD) (mcg/mL)	AUC (±SD) (hr•mcg/mL)	C_{max} (±SD) (mcg/mL)	AUC (±SD) (hr•mcg/mL)
100 mg	0.83 (±0.14)	2.28 (±0.40)	ND	ND
250 mg	2.15 (±0.50)	5.76 (±0.60)	2.11 (±0.33)	5.66 (±1.09)
500 mg	3.28 (±0.83)	11.59 (±1.79)	3.69 (±0.87)	9.88 (±2.01)
750 mg	4.17 (±1.14)	14.11 (±3.54)	ND	ND

1,000 mg	5.65 (±2.37)	19.52 (±6.04)	4.96 (±0.64)	15.70 (±2.27)
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ND = not done.

Distribution: The binding of valacyclovir to human plasma proteins ranges from 13.5% to 17.9%. The binding of acyclovir to human plasma proteins ranges from 9% to 33%.

Metabolism: Valacyclovir is converted to acyclovir and L-valine by first-pass intestinal and/or hepatic metabolism. Acyclovir is converted to a small extent to inactive metabolites by aldehyde oxidase and by alcohol and aldehyde dehydrogenase. Neither valacyclovir nor acyclovir is metabolized by cytochrome P450 enzymes. Plasma concentrations of unconverted valacyclovir are low and transient, generally becoming non-quantifiable by 3 hours after administration. Peak plasma valacyclovir concentrations are generally less than 0.5 mcg/mL at all doses. After single-dose administration of 1 gram of valacyclovir hydrochloride tablets, average plasma valacyclovir concentrations observed were 0.5, 0.4, and 0.8 mcg/mL in patients with hepatic dysfunction, renal insufficiency, and in healthy volunteers who received concomitant cimetidine and probenecid, respectively.

Elimination: The pharmacokinetic disposition of acyclovir delivered by valacyclovir is consistent with previous experience from intravenous and oral acyclovir. Following the oral administration of a single 1 gram dose of radiolabeled valacyclovir to 4 healthy subjects, 46% and 47% of administered radioactivity was recovered in urine and feces, respectively, over 96 hours. Acyclovir accounted for 89% of the radioactivity excreted in the urine. Renal clearance of acyclovir following the administration of a single 1 gram dose of valacyclovir hydrochloride tablets to 12 healthy volunteers was approximately 255 ± 86 mL/min which represents 42% of total acyclovir apparent plasma clearance.

The plasma elimination half-life of acyclovir typically averaged 2.5 to 3.3 hours in all studies of valacyclovir hydrochloride tablets in volunteers with normal renal function.

Specific Populations: *Renal Impairment:* Reduction in dosage is recommended in patients with renal impairment [see *Dosage and Administration (2.4), Use in Specific Populations (8.5), (8.6)*].

Following administration of valacyclovir hydrochloride tablets to volunteers with ESRD, the average acyclovir half-life is approximately 14 hours. During hemodialysis, the acyclovir half-life is approximately 4 hours. Approximately one third of acyclovir in the body is removed by dialysis during a 4-hour hemodialysis session. Apparent plasma clearance of acyclovir in dialysis patients was 86.3 ± 21.3 mL/min/1.73 m² compared with 679.16 ± 162.76 mL/min/1.73 m² in healthy volunteers.

Hepatic Impairment: Administration of valacyclovir hydrochloride tablets to patients with moderate (biopsy-proven cirrhosis) or severe (with and without ascites and biopsy-proven cirrhosis) liver disease indicated that the rate but not the extent of conversion of valacyclovir to acyclovir is reduced, and the acyclovir half-life is not affected. Dosage modification is not recommended for patients with cirrhosis.

HIV Disease: In 9 patients with HIV disease and CD4+ cell counts <150 cells/mm³ who received valacyclovir hydrochloride tablets at a dosage of 1 gram 4 times daily for 30 days, the pharmacokinetics of valacyclovir and acyclovir were not different from that observed in healthy volunteers.

Geriatrics: After single-dose administration of 1 gram of valacyclovir hydrochloride tablets in healthy geriatric volunteers, the half-life of acyclovir was 3.11 ± 0.51 hours, compared with 2.91 ± 0.63 hours in healthy younger adult volunteers. The pharmacokinetics of acyclovir following single- and multiple-dose oral administration of valacyclovir hydrochloride tablets in geriatric volunteers varied with renal function. Dose reduction may be required in geriatric patients, depending on the underlying renal status of the patient [see *Dosage and Administration (2.4), Use in Specific Populations (8.5), (8.6)*].

Labeling describing additional pharmacokinetic studies with valacyclovir HCL in pediatric patients (ages of 1 month to < 12 years) is approved for GlaxoSmithKline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, a description of those pharmacokinetic studies is not approved for this valacyclovir HCL tablet product.

Drug Interactions: When valacyclovir hydrochloride tablets are coadministered with antacids,

cimetidine and/or probenecid, digoxin, or thiazide diuretics in patients with normal renal function, the effects are not considered to be of clinical significance (see below). Therefore, when valacyclovir hydrochloride tablets are coadministered with these drugs in patients with normal renal function, no dosage adjustment is recommended.

Antacids: The pharmacokinetics of acyclovir after a single dose of valacyclovir hydrochloride tablets (1 gram) were unchanged by coadministration of a single dose of antacids (Al^{3+} or Mg^{++}).

Cimetidine: Acyclovir C_{max} and AUC following a single dose of valacyclovir hydrochloride tablets (1 gram) increased by 8% and 32%, respectively, after a single dose of cimetidine (800 mg).

Cimetidine Plus Probenecid: Acyclovir C_{max} and AUC following a single dose of valacyclovir hydrochloride tablets (1 gram) increased by 30% and 78%, respectively, after a combination of cimetidine and probenecid, primarily due to a reduction in renal clearance of acyclovir.

Digoxin: The pharmacokinetics of digoxin were not affected by coadministration of valacyclovir hydrochloride tablets 1 gram 3 times daily, and the pharmacokinetics of acyclovir after a single dose of valacyclovir hydrochloride tablets (1 gram) was unchanged by coadministration of digoxin (2 doses of 0.75 mg).

Probenecid: Acyclovir C_{max} and AUC following a single dose of valacyclovir hydrochloride tablets (1 gram) increased by 22% and 49%, respectively, after probenecid (1 gram).

Thiazide Diuretics: The pharmacokinetics of acyclovir after a single dose of valacyclovir hydrochloride tablets (1 gram) were unchanged by coadministration of multiple doses of thiazide diuretics.

12.4 Microbiology

Mechanism of Action: Valacyclovir is a nucleoside analogue DNA polymerase inhibitor. Valacyclovir hydrochloride is rapidly converted to acyclovir which has demonstrated antiviral activity against HSV types 1 (HSV-1) and 2 (HSV-2) and VZV both in cell culture and *in vivo*.

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 biochemical assays, acyclovir triphosphate inhibits replication of herpes viral DNA. This is accomplished in 3 ways: 1) competitive inhibition of viral DNA polymerase, 2) incorporation 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 with VZV is due to its more efficient phosphorylation by the viral TK.

Antiviral Activities: The quantitative relationship between the cell culture 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 (EC_{50}), vary greatly depending upon a number of factors. Using plaque-reduction assays, the EC_{50} values against herpes simplex virus isolates range from 0.09 to 60 μM (0.02 to 13.5 mcg/mL) for HSV-1 and from 0.04 to 44 μM (0.01 to 9.9 mcg/mL) for HSV-2. The EC_{50} values for acyclovir against most laboratory strains and clinical isolates of VZV range from 0.53 to 48 μM (0.12 to 10.8 mcg/mL). Acyclovir also demonstrates activity against the Oka vaccine strain of VZV with a mean EC_{50} of 6 μM (1.35 mcg/mL).

Resistance: Resistance of HSV and VZV to acyclovir can result from qualitative and quantitative changes in the viral TK and/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 and VZV to acyclovir occurs by the same mechanisms. 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 valacyclovir (and therefore, to acyclovir) should be considered in patients who show poor clinical response during therapy.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

The data presented below include references to the steady-state acyclovir AUC observed in humans treated with 1 gram valacyclovir hydrochloride tablets given orally 3 times a day to treat herpes zoster. Plasma drug concentrations in animal studies are expressed as multiples of human exposure to acyclovir [see *Clinical Pharmacology* (12.3)].

Valacyclovir was noncarcinogenic in lifetime carcinogenicity bioassays at single daily doses (gavage) of valacyclovir giving plasma acyclovir concentrations equivalent to human levels in the mouse bioassay and 1.4 to 2.3 times human levels in the rat bioassay. There was no significant difference in the incidence of tumors between treated and control animals, nor did valacyclovir shorten the latency of tumors.

Valacyclovir was tested in 5 genetic toxicity assays. An Ames assay was negative in the absence or presence of metabolic activation. Also negative were an *in vitro* cytogenetic study with human lymphocytes and a rat cytogenetic study.

In the mouse lymphoma assay, valacyclovir was not mutagenic in the absence of metabolic activation. In the presence of metabolic activation (76% to 88% conversion to acyclovir), valacyclovir was mutagenic.

Valacyclovir was mutagenic in a mouse micronucleus assay.

Valacyclovir did not impair fertility or reproduction in rats at 6 times human plasma levels.

14 CLINICAL STUDIES

14.1 Cold Sores (Herpes Labialis)

Two double-blind, placebo-controlled clinical trials were conducted in 1,856 healthy adults and adolescents (≥ 12 years old) with a history of recurrent cold sores. Patients self-initiated therapy at the earliest symptoms and prior to any signs of a cold sore. The majority of patients initiated treatment within 2 hours of onset of symptoms. Patients were randomized to valacyclovir hydrochloride tablets 2 grams twice daily on Day 1 followed by placebo on Day 2, valacyclovir hydrochloride tablets 2 grams twice daily on Day 1 followed by 1 gram twice daily on Day 2, or placebo on Days 1 and 2.

The mean duration of cold sore episodes was about 1 day shorter in treated subjects as compared with placebo. The 2 day regimen did not offer additional benefit over the 1-day regimen.

No significant difference was observed between subjects receiving valacyclovir hydrochloride tablets or placebo in the prevention of progression of cold sore lesions beyond the papular stage.

14.2 Genital Herpes Infections

Initial Episode: Six hundred and forty-three immunocompetent adults with first-episode genital herpes who presented within 72 hours of symptom onset were randomized in a double-blind trial to receive 10 days of valacyclovir hydrochloride tablets 1 gram twice daily ($n = 323$) or oral acyclovir 200 mg 5 times a day ($n = 320$). For both treatment groups: the median time to lesion healing was 9 days, the median time to cessation of pain was 5 days, the median time to cessation of viral shedding was 3 days.

Recurrent Episodes: Three double-blind trials (2 of them placebo-controlled) in immunocompetent adults with recurrent genital herpes were conducted. Patients self-initiated therapy within 24 hours of the first sign or symptom of a recurrent genital herpes episode.

In 1 study, patients were randomized to receive 5 days of treatment with either valacyclovir hydrochloride tablets 500 mg twice daily ($n = 360$) or placebo ($n = 259$). The median time to lesion healing was 4 days in the group receiving valacyclovir hydrochloride tablets 500 mg versus 6 days in the placebo group, and the median time to cessation of viral shedding in patients with at least 1 positive culture (42% of the overall study population) was 2 days in the group receiving valacyclovir

hydrochloride tablets 500 mg versus 4 days in the placebo group. The median time to cessation of pain was 3 days in the group receiving valacyclovir hydrochloride tablets 500 mg versus 4 days in the placebo group. Results supporting efficacy were replicated in a second trial.

In a third study, patients were randomized to receive valacyclovir hydrochloride tablets 500 mg twice daily for 5 days (n = 398) or valacyclovir hydrochloride tablets 500 mg twice daily for 3 days (and matching placebo twice daily for 2 additional days) (n = 402). The median time to lesion healing was about 4½ days in both treatment groups. The median time to cessation of pain was about 3 days in both treatment groups.

Suppressive Therapy: Two clinical studies were conducted, one in immunocompetent adults and one in HIV-infected adults.

A double-blind, 12-month, placebo- and active-controlled study enrolled immunocompetent adults with a history of 6 or more recurrences per year. Outcomes for the overall study population are shown in Table 5.

Table 5. Recurrence Rates in Immunocompetent Adults at 6 and 12 Months

Outcome	6 Months			12 Months		
	Valacyclovir HC1 Tablets 1 gram once daily (n=269)	Oral Acyclovir 400 mg twice daily (n=267)	Placebo (n=134)	Valacyclovir HC1 tablets 1gram once daily (n=269)	Oral Acyclovir 400 mg twice daily (n=267)	Placebo (n=134)
Recurrence Free	55%	54%	7%	34%	34%	4%
Recurrences	35%	36%	83%	46%	46%	85%
Unknown	10%	10%	10%	19%	19%	10%

Subjects with 9 or fewer recurrences per year showed comparable results with valacyclovir hydrochloride tablets 500 mg once daily.

In a second study, 293 HIV-infected adults on stable antiretroviral therapy with a history of 4 or more recurrences of ano-genital herpes per year were randomized to receive either valacyclovir hydrochloride tablets 500 mg twice daily (n = 194) or matching placebo (n = 99) for 6 months. The median duration of recurrent genital herpes in enrolled subjects was 8 years, and the median number of recurrences in the year prior to enrollment was 5. Overall, the median prestudy HIV-1 RNA was 2.6 log₁₀ copies/mL. Among patients who received valacyclovir hydrochloride tablets, the prestudy median CD4+ cell count was 336 cells/mm³; 11% had <100 cells/mm³, 16% had 100 to 199 cells/mm³, 42% had 200 to 499 cells/mm³, and 31% had ≥500 cells/mm³. Outcomes for the overall study population are shown in Table 6.

Table 6. Recurrence Rates in HIV-Infected Adults at 6 Months

Outcome	Valacyclovir HCl Tablets 500 mg twice daily (n = 194)	Placebo (n = 99)
Recurrence free	65%	26%
Recurrences	17%	57%
Unknown	18%	17%

Reduction of Transmission of Genital Herpes: A double-blind, placebo-controlled study to assess transmission of genital herpes was conducted in 1,484 monogamous, heterosexual, immunocompetent adult couples. The couples were discordant for HSV-2 infection. The source partner had a history of 9 or fewer genital herpes episodes per year. Both partners were counseled on safer sex practices and were advised to use condoms throughout the study period. Source partners were randomized to treatment with either valacyclovir hydrochloride tablets 500 mg once daily or placebo once daily for 8 months. The primary efficacy endpoint was symptomatic acquisition of HSV-2 in susceptible partners.

Overall HSV-2 acquisition was defined as symptomatic HSV-2 acquisition and/or HSV-2 seroconversion in susceptible partners. The efficacy results are summarized in Table 7.

Table 7. Percentage of Susceptible Partners Who Acquired HSV-2 Defined by the Primary and Selected Secondary Endpoints

Endpoint	Valacyclovir HCl Tablets (n = 743)	Placebo (n = 741)
Symptomatic HSV-2 acquisition	4 (0.5%)	16 (2.2%)
HSV-2 seroconversion	12 (1.6%)	24 (3.2%)
Overall HSV-2 acquisition	14 (1.9%)	27 (3.6%)

14.3 Herpes Zoster

Two randomized double-blind clinical trials in immunocompetent adults with localized herpes zoster were conducted. Valacyclovir hydrochloride tablets were compared with placebo in patients less than 50 years of age, and with oral acyclovir in patients greater than 50 years of age. All patients were treated within 72 hours of appearance of zoster rash. In patients less than 50 years of age, the median time to cessation of new lesion formation was 2 days for those treated with valacyclovir hydrochloride tablets compared with 3 days for those treated with placebo. In patients greater than 50 years of age, the median time to cessation of new lesions was 3 days in patients treated with either valacyclovir hydrochloride tablets or oral acyclovir. In patients less than 50 years of age, no difference was found with respect to the duration of pain after healing (post-herpetic neuralgia) between the recipients of valacyclovir hydrochloride tablets and placebo. In patients greater than 50 years of age, among the 83% who reported pain after healing (post-herpetic neuralgia), the median duration of pain after healing [95% confidence interval] in days was: 40 [31, 51], 43 [36, 55], and 59 [41, 77] for 7-day valacyclovir hydrochloride tablets, 14-day valacyclovir hydrochloride tablets, and 7-day oral acyclovir, respectively.

Labeling describing clinical studies of valacyclovir HCL in pediatric patients with chickenpox (ages 2 to ≤ 18 years) for the treatment of chickenpox is approved for GlaxoSmithKline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, a description of those clinical studies is not approved for this valacyclovir HCL tablet product.

16 HOW SUPPLIED/STORAGE AND HANDLING

Valacyclovir hydrochloride tablets, equivalent to 500 mg of valacyclovir base, are blue, capsule-shaped, film-coated tablets debossed "SZ" on one side and 393 on the other side and are supplied as follows:

Bottles of NDC 75921-208-
3 03

Storage:

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from moisture.

17 PATIENT COUNSELING INFORMATION

See FDA-Approved Patient Labeling for Valacyclovir Hydrochloride Tablets manufactured by Sandoz Inc.

17.1 Importance of Adequate Hydration

Patients should be advised to maintain adequate hydration.

17.2 Cold Sores (Herpes Labialis)

Patients should be advised to initiate treatment at the earliest symptom of a cold sore (e.g., tingling,

itching, or burning). There are no data on the effectiveness of treatment initiated after the development of clinical signs of a cold sore (e.g., papule, vesicle, or ulcer). Patients should be instructed that treatment for cold sores should not exceed 1 day (2 doses) and that their doses should be taken about 12 hours apart. Patients should be informed that valacyclovir hydrochloride tablets are not a cure for cold sores.

17.3 Genital Herpes

Patients should be informed that valacyclovir hydrochloride tablets are not a cure for genital herpes. 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 is frequently transmitted in the absence of symptoms through asymptomatic viral shedding. Therefore, patients should be counseled to use safer sex practices in combination with suppressive therapy with valacyclovir hydrochloride tablets. Sex partners of infected persons should be advised that they might be infected even if they have no symptoms. Type-specific serologic testing of asymptomatic partners of persons with genital herpes can determine whether risk for HSV-2 acquisition exists.

Valacyclovir hydrochloride tablets have not been shown to reduce transmission of sexually transmitted infections other than HSV-2.

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.

There are no data on the effectiveness of treatment initiated more than 72 hours after the onset of signs and symptoms of a first episode of genital herpes or more than 24 hours after the onset of signs and symptoms of a recurrent episode.

There are no data on the safety or effectiveness of chronic suppressive therapy of more than 1 year's duration in otherwise healthy patients. There are no data on the safety or effectiveness of chronic suppressive therapy of more than 6 months' duration in HIV-infected patients.

17.4 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.

Labeling describing use of valacyclovir HCL in pediatric patients with chickenpox (ages of 2 to ≤ 18 years) for the treatment of chickenpox is approved for GlaxoSmithKline's Valtrex®* Caplets. However, due to GlaxoSmithKline's marketing exclusivity rights, a description of that use is not approved for this valacyclovir HCL tablet product.

17.6 FDA-Approved Patient Labeling

Call your doctor for medical advice about side effects. You may report side effects to Sandoz Inc. at 1-800-525-8747 or FDA at 1-800-FDA-1088

Manufactured in India by Sandoz Private Ltd.
for Sandoz, Inc., Princeton, NJ 08540

Rev. April 2010

Repackaging by:

Life Line Home Care Services, Inc.
Repackaging Pharmacy

Valacyclovir Hydrochloride Tablets 500 mg Label

VALACYCLOVIR HCL

500 MG

QTY: 3 TABLETS

MFG: SANDOZ

VALACYCLOVIR HCL

MFG LOT: BS2006

MFG NDC: 00781520831

MFG: SUP 03/26/12 9:40 AM

LIFE LINE

1610 Madison Ave. Tifton, GA 31794



NDC: 75921020803

EXP: 04/30/13

VALACYCLOVIR HYDROCHLORIDE

valacyclovir hydrochloride tablet, coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:75921-208(NDC:0781-5208)
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
VALACYCLOVIR HYDROCHLORIDE (UNII: G447S0T1VC) (VALACYCLOVIR - UNII:MZ1IW7Q79D)	VALACYCLOVIR	500 mg

Inactive Ingredients

Ingredient Name	Strength
CROSPVIDONE (UNII: 68401960MK)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
HYPROMELLOSES (UNII: 3NXW29V3WO)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
CELLULOSE, MICROCRYSTALLINE (UNII: OP1R32D61U)	
POLYETHYLENE GLYCOL (UNII: 3WJQ0SDW1A)	
POLYSORBATE 80 (UNII: 6OZP39ZG8H)	
POVIDONE K90 (UNII: RDH86HJV5Z)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

Product Characteristics

Color	blue	Score	no score
Shape	CAPSULE	Size	18mm
Flavor		Imprint Code	SZ;393
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:75921-208-03	3 in 1 BOTTLE		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA077478	05/24/2010	

Labeler - Life Line Home Care Services, Inc. (844985374)

Establishment

Name	Address	ID/FEI	Business Operations
Life Line Home Care Services, Inc.		844985374	relabel, repack

Revised: 3/2012

Life Line Home Care Services, Inc.