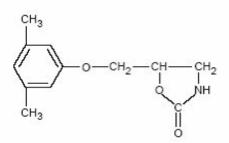
METAXALONE - metaxalone tablet STAT Rx USA LLC

METAXALONE TABLETS 800 mg

DESCRIPTION

Metaxalone tablets are available as an 800 mg oval, convex pink tablet.

Chemically, metaxalone is 5-[(3,5- dimethylphenoxy) methyl]-2-oxazolidinone. The empirical formula is $C_{12}H_{15}NO_3$, which corresponds to a molecular weight of 221.25. The structural formula is:



Metaxalone is a white to almost white, odorless crystalline powder freely soluble in chloroform, soluble in methanol and in 96% ethanol, but practically insoluble in ether or water.

Each tablet contains 800 mg metaxalone and the following inactive ingredients: alginic acid, ammonium calcium alginate, B-Rose Liquid, corn starch and magnesium stearate.

CLINICAL PHARMACOLOGY

Mechanism of Action

The mechanism of action of metaxalone in humans has not been established, but may be due to general central nervous system depression. Metaxalone has no direct action on the contractile mechanism of striated muscle, the motor end plate, or the nerve fiber.

Pharmacokinetics

The pharmacokinetics of metaxalone have been evaluated in healthy adult volunteers after single dose administration of Metaxalone tablets under fasted and fed conditions at doses ranging from 400 mg to 800 mg.

Absorption

Peak plasma concentrations of metaxalone occur approximately 3 hours after a 400 mg oral dose under fasted conditions. Thereafter, metaxalone concentrations decline log-linearly with a terminal half-life of 9.0 \pm 4.8 hours. Doubling the dose of metaxalone tablets from 400 mg to 800 mg results in a roughly proportional increase in metaxalone exposure as indicated by peak plasma concentrations (C_{max}) and area under the curve (AUC). Dose proportionality at doses above 800 mg has not been studied. The absolute bioavailability of metaxalone is not known.

The single-dose pharmacokinetic parameters of metaxalone in two groups of healthy volunteers are shown in Table 1.

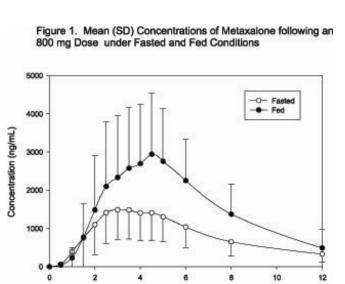
Dose (mg)	C_{max} (ng/mL)	T_{max} (h)	AUC_{∞} (ng•h/mL)	t 1/2(h)	CL/F (L/h)	
4001	983 (53)	3.3 (35)	7479 (51)	9.0 (53)	68 (50)	
800 ²	1816 (43)	3.0 (39)	15044 (46)	8.0 (58)	66 (51)	
¹ Subjects received 1x400 mg tablet under fasted conditions (N=42) ² Subjects received 2x400 mg tablets under fasted conditions (N=59)						

Table 1: Mean (%CV) Metaxalone Pharmacokinetic Parameters

Food Effects

A randomized, two-way, crossover study was conducted in 42 healthy volunteers (31 males, 11 females) administered one 400 mg metaxalone tablet under fasted conditions and following a standard high-fat breakfast. Subjects ranged in age from 18 to 48 years (mean age = 23.5 ± 5.7 years). Compared to fasted conditions, the presence of a high fat meal at the time of drug administration increased C_{max} by 177.5% and increased AUC (AUC_{0-t}, AUC_{∞}) by 123.5% and 115.4%, respectively. Time-to-peak concentration (T_{max}) was also delayed (4.3 h *versus* 3.3 h) and terminal half-life was decreased (2.4 h *versus* 9.0 h) under fed conditions compared to fasted.

In a second food effect study of similar design, two 400 mg metaxalone tablets (800 mg) were administered to healthy volunteers (N=59, 37 males, 22 females), ranging in age from 18-50 years (mean age = 25.6 ± 8.7 years). Compared to fasted conditions, the presence of a high fat meal at the time of drug administration increased C_{max} by 193.6% and increased AUC (AUC_{0-t}, AUC_∞) by 146.4% and 142.2%, respectively. Time-to-peak concentration (T_{max}) was also delayed (4.9 h *versus* 3.0 h) and terminal half-life was decreased (4.2 h *versus* 8.0 h) under fed conditions compared to fasted conditions. Similar food effect results were observed in the above study when one metaxalone 800 mg tablet was administered in place of two metaxalone 400 mg tablets. The increase in metaxalone exposure coinciding with a reduction in half-life may be attributed to more complete absorption of metaxalone in the presence of a high fat meal (Figure 1).



Distribution, Metabolism, and Excretion

Time (hours)

Although plasma protein binding and absolute bioavailability of metaxalone are not known, the apparent volume of distribution (V/F \sim 800 L) and lipophilicity (log P = 2.42) of metaxalone suggest that the drug is extensively distributed in the tissues. Metaxalone is metabolized by the liver and excreted in the urine as unidentified metabolites. Hepatic Cytochrome P450 enzymes play a role in the metabolism of metaxalone. Specifically, CYP1A2, CYP2D6, CYP2E1, and CYP3A4 and, to a lesser extent, CYP2C8, CYP2C9, and CYP2C19 appear to metabolize metaxalone.

Metaxalone does not significantly inhibit major CYP enzymes such as CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1, and CYP3A4. Metaxalone does not significantly induce major CYP enzymes such as CYP1A2, CYP2B6, and CYP3A4 *in vitro*.

Pharmacokinetics in Special Populations

Age:

The effects of age on the pharmacokinetics of metaxalone were determined following single administration of two 400 mg tablets (800 mg) under fasted and fed conditions. The results were analyzed separately, as well as in combination with the results from three other studies. Using the combined data, the results indicate that the pharmacokinetics of metaxalone are significantly more affected by age under fasted conditions than under fed conditions, with bioavailability under fasted conditions increasing with age.

The bioavailability of metaxalone under fasted and fed conditions in three groups of healthy volunteers of varying age is shown in Table 2.

	Younger Volunteers		Older Volunteers				
Age (years)	25.6 ± 8.7		39.3 ± 10.8		71.5 ± 5.0		
Ν	59		21		23		
Food	Fasted	Fed	Fasted	Fed	Fasted	Fed	
C _{max} (ng/mL)	1816	3510	2719	2915	3168	3680	
	(43)	(41)	(46)	(55)	(43)	(59)	
T _{max} (h)	3.0	4.9	3.0	8.7	2.6	6.5	
	(39)	(48)	(40)	(91)	(30)	(67)	
AUC _{0-t} (ng·h/mL)	14531	20683	19836	20482	23797	24340	
	(47)	(41)	(40)	(37)	(45)	(48)	
AUC_{∞} (ng·h/mL)	15045	20833	20490	20815	24194	24704	
	(46)	(41)	(39)	(37)	(44)	(47)	

Table 2: Mean (%CV) Pharmacokinetic Parameters Following Single Administration of Two 400 mg Metaxalone Tablets (800 mg) under Fasted and Fed Conditions

Gender:

The effect of gender on the pharmacokinetics of metaxalone was assessed in an open label study, in which 48 healthy adult volunteers (24 males, 24 females) were administered two metaxalone 400 mg tablets (800 mg) under fasted conditions. The bioavailability of metaxalone was significantly higher in females compared to males as evidenced by C_{max} (2115 ng/mL *versus* 1335 ng/mL) and AUC_∞ (17884 ng·h/mL *versus* 10328 ng·h/mL). The mean half-life was 11.1 hours in females and 7.6 hours in males. The apparent volume of distribution of metaxalone was approximately 22% higher in males than in females, but not significantly different when adjusted for body weight. Similar findings were also seen when the previously described combined dataset was used in the analysis.

Hepatic/Renal Insufficiency:

The impact of hepatic and renal disease on the pharmacokinetics of metaxalone has not been determined. In the absence of such information, metasxalone tablets should be used with caution in patients with hepatic and/or renal impairment.

INDICATIONS AND USAGE

Metaxalone tablets is indicated as an adjunct to rest, physical therapy, and other measures for the relief of discomforts associated with acute, painful musculoskeletal conditions. The mode of action of this drug has not been clearly identified, but may be related to its sedative properties. Metaxalone does not directly relax tense skeletal muscles in man.

CONTRAINDICATIONS

Known hypersensitivity to any components of this product.

Known tendency to drug induced, hemolytic, or other anemias.

Significantly impaired renal or hepatic function.

WARNINGS

Metaxalone tablets may enhance the effects of alcohol and other CNS depressants.

PRECAUTIONS

Metaxalone should be administered with great care to patients with pre-existing liver damage. Serial liver function studies should be performed in these patients.

False-positive Benedict's tests, due to an unknown reducing substance, have been noted. A glucose-specific test will differentiate findings.

Taking metaxalone tablets with food may enhance general CNS depression; elderly patients may be especially susceptible to this CNS effect. (See **CLINICAL PHARMACOLOGY: Pharmacokinetics** and **PRECAUTIONS: Information for Patients** sections)

Information for Patients

Metaxalone tablets may impair mental and/or physical abilities required for performance of hazardous tasks, such as operating machinery or driving a motor vehicle, especially when used with alcohol or other CNS depressants.

Drug Interactions

The sedative effects of metaxalone tablets an dother CNS depressants (e.g., alcohol benzodiazepines, opiods, trycyclic antidepressants) may be additive. Therefore, caution should be exercised with patients who take more than one of these CNS depressants simultaneoulsy.

Carcinogenesis, Mutagenesis, Impairment of Fertility

The carcinogenic potential of metaxalone has not been determined.

Pregnancy

Reproduction studies in rats have not revealed evidence of impaired fertility or harm to the fetus due to metaxalone. Post marketing experience has not revealed evidence of fetal injury, but such experience cannot exclude the possibility of infrequent or subtle damage to the human fetus. Safe use of metaxalone has not been established with regard to possible adverse effects upon fetal development. Therefore, metaxalone tablets should not be used in women who are or may become pregnant and particularly during early pregnancy unless in the judgement of the physician, the potential benefits outweigh the possible hazards.

NURSING MOTHERS

It is not known whether this drug is secreted in human milk. As a general rule, nursing should not be undertaken while a patient is on a drug since many drugs are excreted in human milk.

Pediatric Use

Safety and effectiveness in children 12 years of age and below have not been established.

ADVERSE REACTIONS

The most frequent reactions to metaxalone include:

CNS: drowsiness, dizziness, headache, and nervousness or "irritability";

Digestive: nausea, vomiting, gastrointestinal upset.

Other adverse reactions are:

Immune System: hypersensitivity reaction, rash with or without pruritus;

Hematologic: leukopenia; hemolytic anemia;

Hepatobiliary: jaundice.

Though rare, anaphylactoid reactions have been reported with metaxalone.

OVERDOSAGE

Deaths by deliberate or accidental overdose have occurred with metaxalone, particularly in combination with antidepressants, and have been reported with this class of drug in combination with alcohol.

When determining the LD_{50} in rats and mice, progressive sedation, hypnosis and finally respiratory failure were noted as the dosage increased. In dogs, no LD_{50} could be determined as the higher doses produced an emetic action in 15 to 30 minutes.

Treatment - Gastric lavage and supportive therapy. Consultation with a regional poison control center is recommended.

DOSAGE AND ADMINISTRATION

The recommended dose for adults and children over 12 years of age is one 800 mg tablet three to four times a day.

HOW SUPPLIED

Metaxalone tablets are available as an 800 mg oval, convex, pink tablet with one side debossed "M" and other side debossed "58/59".

Bottles of 30 NDC 42549-650-30

Store at Controlled Room Temperature, between 15°C and 30°C (59°F and 86°F).

Rx Only

Manufactured and Distributed by:

Corepharma LLC Middlesex, NJ 08846



MF# 704-01

April 2010

Relabeled and Repackaged by: STAT Rx USA LLC Gainesville, GA 30501

PRINCIPAL PACKAGE DISPLAY LABEL

Packa Distrib	buted By: STAT R	USA Gainesville GA 30501	. 0
	Metaxalona 800mg	30 Tabs	
CHICUN NADA	Generic For: Skelaxin		ess
Dosage: See pa Store between 5	And buted By: STAT R Metaxalona 800mg Generic For: Skelaxin NDC 42549 - 65 Each Tablet Contains: Metax Dist By: Corepharma LLC Middlesex, NJ 08846 Mtg Lot: 673180 Discard After: 05/13 X ONLY-KEEP OUT OF RE	0-30 Prod# 650-30 Lot# 020E11113 valone 800mg	drov
ckage i 9-86 d	Dist By: Corepharma LLC Middlesex, NJ 08846	NDC 64720 - 321 - 10	cause ness.
nsert	Mfg Lot: 673180 Discard After: 05/13	BW 12/2/2011 SAMPLE	May
" R	X ONLY-KEEP OUT OF RE	EACH OF CHILDREN	Service Porce

METAXALONE				
metaxalone tablet				
Product Information				
Product T ype	HUMAN PRESCRIPTION DRUG	Item Code (Source) NDC:42549-650(NE	OC:64720-321)
Route of Administration	ORAL			
	- 4			
Active Ingredient/Active Moi	gredient Name			
Ing		Basis of Strength	Strength	
METAXALONE (UNII: 1NMA9J598Y) (METAXALONE - UNII:1NMA9J598Y)			ETAXALONE	800 mg

Inacti	ive Ingredien	ts					
			Ingredient Nar	ne			Strength
ALGIN	IC ACID (UNII: 80	C3Z4148WZ)					
MAGNI	ESIUM STEARAT	E (UNII: 70097)	M6I30)				
STARC	C H, CORN (UNII: (08232NY3SJ)					
CALCI	UM (UNII: SY7Q8	14VUP)					
Produ	uct Character	istics					
Color		pink	Sco	re		2	pieces
Shape		OVAL	Siz	Size 20		20 mm	
Flavor			Imp	rint Code		N	1;5859
Contai	ins						
Packa	aging						
#	Item Code	Pack	age Description	Marketin	ng Start Date	Μ	arketing End Date
1 NDC	:42549-650-30	30 in 1 BO	TTLE				
Mar	keting Info	rmation					
Marke	eting Category	Application	n Number or Mono	graph Citation	Marketing Start	Date	Marketing End Date
NDA		NDA013217			11/0 1/20 0 7		

Labeler - STAT Rx USA LLC (786036330)

Registrant - PSS World Medical Inc. (101822682)

Establishment

Name	Address	ID/FEI	Business Operations
STAT Rx USA LLC		786036330	relabel, repack

Revised: 2/2012

STAT Rx USA LLC