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LAMOTRIGINE KIT- lamotrigine
LAMOTRIGINE- lamotrigine tablet
OWP Pharmaceuticals, Inc.
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HIGHLIGHTS OF PRESCRIBING INFORMATION
These highlights do not include all the information needed to use LAMOTRIGINE TABLETS safely and effectively. See full prescribing information for LAMOTRIGINE TABLETS.

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WARNING: SERBOUS SKIN RASHES
See full prescribing information for complete boxed warning.
Cases of life-threatening serious rashes, including Stevens-johnson syndrom
totic epiderman incorplais, and prash-related death have been caused by
lamotrigine. The rate of serious rash is greater in pediatric patients than in Additional factors that may increase the risk of rash include:

    exceeding recommended dose escalation for lamotrigine. ( 5.1)
    Benign rashes are also caused by lamotrigine; however, it is not possible to predict which rashes will prove to be serious or life threatening. Lamotrigine should be discontinued at the first sign of rash, unless the rash is clearly not drug related. ( 3.1)
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RECENT MAJOR CHANGES

Warnings and Precautions, Cardiac Rhythm and Conduction 3/2021

Abnormalities (5.4)

partial-onset seizures.
 primary generalized tonic-clonic seizures.
 generalized seizures of Lennox-Gastaut syndrome. (1.1)

<u>Fribbosy</u>—monotherapy in patients aged 16 years and older Conversion to monotherapy in patients with partial-orasis solizurus who are recoloring treatment with carbamazepine, phenytoin, phenobarbital, primidone, or valproate as the single AED. (1.1) Security of the Company of the Große ASD. (1.1) Security of the Company of the

to 12 years. (2.2)

• Conversion in monotherapy—See Table 1 for patients older than 12 years and Tables

• Conversion in monotherapy—See Table 4. (2.3)

<u>Boolar disorders</u> See Tables 3 and 6. (2.4)

• DOSAGE FORMS AND STRENGTHS

• Tables: 25 mg. 100 mg; scored. (3.1, 16)

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- Reset impairment. (2.1)
- Reset impairmen

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5.12 Sudden Unexplained Death in Epilepsy (SUDEP)
Valorates
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FULL PRESCRIBING INFORMATION

WARNING: SERIOUS SIAN RASHES

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occurred in the asset of life-threatening rashes caused by lamotrigine have occurred within 2 to 8 weeks of treatment initiation. However, isolated cases have occurred after prolonged treatment (e.g., 6 months). Accordingly, duration of therapy cannot be relied upon as means to predict the potential risk heralided by the first appearance of a rash. preact the potential risk heralded by the first appearance of a rash. Abhough being nathes are also caused by lumbrighen, it is not possible to predict reliably which rashes will prove to be serious or life threatening. Accordingly, lamorityles bould ordinarly be discontinued at the first sign of rash, unless the rash is clearly not drug related. Discontinuation of treatment may not prevent a rash from becoming life threatening or permanently disabling or defiguring [see Warnings and Precautions (5.11)].

1 INDICATIONS AND USAGE

1.1 Epilepsy
Adjunctive Therapy

LEMONANCE LINEAUX
LEMONTAINE LE LEMO

Monotherapy

Lamotrigine tablets, USP are indicated for conversion to monotherapy in adults years and older I with partial-onset seizures who are receiving treatment with carbamazepine, phenytoin, phenobarbital, primidone, or valproate as the single antieplieptic drug (AED).

Safety and effectiveness of lamotrigine tablets, USP have not been establishe initial monotherapy; (2) for conversion to monotherapy from AEDs other than carbamazepine, phenytoin, phenobarbital, primidone, or valproate; or (3) for simultaneous conversion to monotherapy from 2 or more concomitant AEDs.

In a Bipolar Polarodar un innovariagy notal 2 on hort consciourists necess.

1.2 Bipolar Polarodar en indicated for the maintenance treatment of bipolar I disorder to delay the time to occurrence of mood episodes (depression, mania, hypomania, mixed episodes) in patients treated for acute mood episodes with standard therapy (see Cinical Studies (14.24)).

Treatment of acute manic or mixed episodes is not recommended. Effectiveness of lamotrigine in the acute treatment of mood episodes has not been established.

2.1 General Dosing Considerations

There are suggestions, yet to be proven, that the risk of severe, potentially life-threatening rash may be increased by (1) coadministration of amortispie with valproate, threatening rash may be increased by (1) coadministration of amortispie with valproate, recommended due se calcidate for laworitipie. However, cases have occurred in the absence of these factors [see Boxed Warning]. Therefore, it is important that the dosing recommendations be followed closely.

recommended does exclation to learning the Honovers, cases have accurred in the concernmended does to followed closely. Therefore, it is important that the does not consider the commendation to followed closely. The risk of nonserious rash may be increased when the recommended initial does andered the risk of does exclation for burninging in exceeded and patients with a disease that the recommended training the second patients with a registery to the risk of the risk of

Target Plasma Levels for Patients with Epilepsy or Bipolar Disorder

Tagest Planna Lenk for Patients with Ealescy of Bioplan Disorder
A threeponic planna concentration range has not been established for lamoringine.
Dosing of Immotingine should be based on therapeautic response [see Cincel
Paramacology (12 - 20).
Woman Takery Estrogens-Centalanian Oral Contra estables.
Scharting Lamottery in Patients Takery Estrogens-Containing Oral
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Adjustments to the Maintenance Dose of Lamotrigine in Women Taking Estrogen-Containing Oral Contraceptives:

women taking estrogen containing ord contraceptives.

Againments to the Allestenance Dose of Humoritype in Women Taking EstrogenAlgainments to the Allestenance Code of Humoritype in Women Taking EstrogenCall 7 Jaing Estrogen-Cortaining Ord Contraceptives in women not taking
contractives the Committee of the Contraceptives of the Contractive of the

Women and Other Hormonal Contraceptive Preparations or Hormone Replacement Therapy

JUSTIANS.
The effect of other hormonal contraceptive preparations or hormone replacement therapy on the pharmacolaetics of lamostrape has not been systematically evaluated. It because the properties of the pharmacolaetics of lamostrape has not been systematically evaluated. It between the properties of the properties

progestogens alone will kely not be needed.

Patients Takins Automorphismonic
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Automatic to the recommended does exclusion guidelines for lemortrigine should be
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12.30). Experience in platents with hepatic impairment is limited. Based on a chinical phermacology study in 24 subjects with malt, moderate, and severe liver impairment phermacology study in 24 subjects with malt, moderate, and severe liver impairment periment incommendations can be made. No discage adjustment is needed in patients with mild liver impairment. Intilet, escalation, and maintenance does subsidial generally with mild liver impairment. Intilet, escalation, and maintenance does subsidial generally without actions and 50% in patients with severe liver impairment with sockes. Escalation and maintenance does may be adjusted according to clinical resolution.

Patients with Renal Impairment

EXERCISE, With Letteral Impeatment.

Initial douces of importigue should be based on patients' concomitant medications (see Tables 1 to 3, and 3); reduced maintenance douce may be effectable for patients with 1 to 2, and 1 to 3, and 1

Discontinuation Strategy

Epilepsy:For patients receiving lamotrigine in combination with other AEDs, a re-evaluation of all AEDs in the regimen should be considered if a change in seizure control or an appearance or worsening of adverse reactions is observed.

or an appearance or worsering of selverse reactions is observed. If a dictation is made to discontinue thereby with hemotripine, a steep wise reduction of dose over at least 2 weeks of toccretize thereby with hemotripine, as steep wise reduction of dose over at least 2 weeks of the contract registers appropriately 50% per week) is recommended unless assisting concerns registers appropriately phenolized from the self-or contractive of 50.00 Decomming carbon-sergine behand the previous file with the self-or discontinue of the self-or discontinue carbon-sergine phenolized for of immortages, and discontinue of the self-or discontinues in his in circles, and in the self-or discontinues with the self-or discontinues and the self-or disco

2.2 Epilepsy-Adjunctive Therapy

This section provides space? did doing recommendations for patients older than 12 years of abilities year? 20 12 years Within each of these page grouns, specific disriss, recommendations are provided depending upon concommant AEDs or other concommant medications (see Table 1.6 pro platients older than 12 years and Table 2 for patients aged 2 to 12 years). A weight-based dosing guide for patients aged 2 to 12 years on concommant veloprode is provided in Table 3.

Patients Older than 12 Years Recommended dosing guidelines are summarized in Table 1.

	In Patients TAKING Valoroate *	In Patients NOT TAKING Carbamazepine, Phenytoin, Phenobarbital, Primidone b, or Valproate 4	In Patients TAKING Carbamazepine, Phenytoin, Phenobarbital, or Primidone		
Weeks 1 and 2	25 mg every other day	25 mg every day	50 mg/day		
Weeks 3 and 4	25 mg every day	50 mg/day	100 mg/day(in 2 divided doses)		
Week 5 onward to maintenance	Increase by 25 to	Increase by 50 mg/day every 1 to 2 weeks.	Increase by		
	50 mg/day every 1 to		100 mg/day every 1 to 2 weeks.		
	2 weeks.				
Usual	100 to 200 mg/day with valproate alone100 to 400 mg/day with valproate andother drugs that induce glucuronidation(in 1 or 2 divided doses;	225 to 375 mg/day(in 2 divided doses)	300 to 500 mg/day(in 2 divided doses)		
maintenance			1		
dose					

Recommended dosing guidelines are summarized in Table 2. Lower starting doses and slower dose escalations than those used in clinical trials are recommended because of the suggestion that the risk of rash may be decreased by lower starting doses and slower dose escalations. Therefore, maintenance doses will take bioger to reach in clinical practice than in clinical trials. It may take several weeks

months to achieve an individualized maintenance dose. Maintenance doses in patients weighing less than 30 kg, regardless of age or concomitant AED, may need to be increased as much as 50%, based on clinical response.

		2. Escalation Regimen for Lamotrigine in Patients Aged 2 to 12 Years with Ep	
		In Patients NOT TAKING Carbamazepine, Phenytoin, Phenobarbital, Primidone b, or Valproate a	band NOT TAKING Valproate a
Weeks 1 and 2	0.15 mg/kg/day in 1 or 2 divided	0.3 mg/kg/day in 1 or 2 divided	0.6 mg/kg/dayin 2 divided doses,
	doses, rounded	doses, rounded down	rounded down to the
	down to the nearest	to the nearest whole	nearest whole tablet
	whole tablet (see	tablet	
	Table 3 for weight-based dosing guide)		
Weeks 3 and 4	0.3 mg/kg/day in 1 or 2 divided	0.6 mg/kg/day in 2 divided doses,	 1.2 mg/kg/dayin 2 divided doses,
	doses, rounded	rounded down to the	rounded down to the
	down to the nearest	nearest whole tablet	nearest whole tablet
	whole tablet (see		
	Table 3 for weight-based dosing guide)		
Week 5 onward to maintenance	The dose should be	The dose should be increased every 1 to	The dose should be increased every 1 to
	increased every 1 to	2 weeks as follows: calculate	2 weeks as follows: calculate
	2 weeks as follows:	0.6 mg/kg/day, round	1.2 mg/kg/day, round
	calculate 0.3 mg/kg/day,	this amount down to	this amount down to
	round this amount	the nearest whole	the nearest whole
	down to the nearest	tablet, and add this	tablet, and add this
	whole tablet, and	amount to the	amount to the
	add this amount to	previously	previously
	the previously	administered daily	administered daily
	administered daily	dose.	dose.
	dose.		
Usual Maintenance	1 to 5 mg/kg/day (maximum	4.5 to 7.5 mg/kg/day (maximum 300	5 to 15 mg/kg/day(maximum 400
Dose	200 mg/day in 1 or 2	mg/day in 2 divided	mg/day in 2 divided
	divided doses)	doses)	doses)
	1 to 3 mg/kg/day with valproate alone		
	May need to be	May need to be	May need to be
	increased by as	increased by as much	increased by as much
	much as 50%, based	as 50%, based on	as 50%, based on
Maintenance dose in patients less than 30 kg	on clinical response.	clinical response.	clinical response.

"Valgroate has been shown to inhibit glucuronidation and decrease the apparent charance of innotingine [see Dring Interactions [7]. Claud Phermacology [12.3] in the charance of innotinging [see Interactions [7]. Claud Phermacology [12.3] in the charance of the charance

Table 3. The Initial Weight-Based Dosing Guide for Patients Aged 2 to 12 Years Taking Valproate (Weeks 1 to 4) with Epilepsy

	nt's weight is	Give this daily dose, using the most appropriand 5-mg tablets	_
	And less than	Weeks 1 and 2	Weeks 3 and 4
6.7 kg	14 kg	2 mg every other day	2 mg every day
14.1 kg	27 kg	2 mg every day	4 mg every day
27.1 kg	34 kg	4 mg every day	8 mg every day
34.1 kg	40 kg	5 mg every day	10 mg every day

The Usual Adduncted Hastermance Dose for Enhance
The usual maintenance doses identified in Tables 1 and 2 are derived from dusing regimens employed his ligit exists controlled adjunctive in the 3 which the either of regimens employed his ligit exists controlled adjunctive in the 3 which the either of regimens employed the ligit exists an extra service of the extra service of the entire of th

Tables 1 to 4 has not been established in controlled trads.

2.2 Epilipsys/Conversion from Adjourche Therapy to Monotherapy
The good of the transition regimen is to attempt to marketin seture control wink
magazing the risk of serious rank associated with the right betwarts on elemotripse.
The recommended maintenance does of browtripse as monotherapy is 500 mg/day
given in 2 divided does not reasonable to the control of the

After achieving a dose of 500 mold/sp of lamotripine using the guidelines in Table 1, the concomitant enzyme-inducing AED should be withdrawn by 20% docrements each week over a 4-week prioriol. The regimen for the withdrawal of the concomitant AED is based on experience gained in the controlled monotherapy clinical trial.

Conversion from Adjunctive Therapy with Valproate to Monothers
The conversion regimen involves the 4 steps outlined in Table 4.

	Lamotrigine	Valproate
Step 1	Achieve a dose of 200 mg/day according to guidelines in Table 1.	Maintain established stable dose.
Step 2	Maintain at 200 mg/day.	Decrease dose by decrements no greater than 500 mg/day/week to 500 mg/day and then maintain for 1 week.
Step 3		Simultaneously decrease to
		250 mg/day and maintain for 1 week.
Sten 4	Increase by 100 mg/day every week to achieve maintenance dose of 500 mg/day	Discontinue

Conversion from Adjunctive Therapy with Antiepileptic Drugs other than Carbamazepine. Phenytoin, Phenobarbital, Primidone, or Valproste to Monotherapy with Lamotrigine

No specific dosing guidelines can be provided for conversion to monotherapy with lamotripine with AEDs other than carbamazepine, phenytoin, phenobarbital, primidone, or valproate.

2.4 Bipolar Disorder

The goal of maintenance treatment with lemotrigine is to delay the time to occurrence of mood eptodes (depresson, mains, hypomasis, mood eptodes) in patients treated for acute mood eptodes with surfaried thempy free infociations and Usager (1.29). Patients stating jumostigate for more than 16 weeks should be periodically reassessed to determine the need for maintenance treatment.

other mine the need for maintenance to uservan-deduction. The target dose of temotrapies as 200 migday (100 migday in patients taking valproads within discreases the appearent character of immortagine, and 400 migday in patients not or other drugs such as a frampin and the protesse children tipsinavirthenses that consider the processes of the control of the protesses of the control of the control of the translate the appearence in the control of the mine of the control of the cont

some 200 mg/dsy or not recommended.

Therefore with memory in a strong continued and the continued and

	In Patients TAKING Valproate	In Patients NOT TAKING Carbamazepine, Phenytoin, Phenobarbital, Primidone	
	•	b, or Valproate a	band NOT TAKING Valproate a
Weeks 1 and 2	25 mg every other day	25 mg daily	50 mg daily
Weeks 3 and 4	25 mg daily	50 mg daily	100 mg daily, in divided doses
	50 mg daily		200 mg daily, in divided doses
			300 mg daily, in divided doses
Week 7	100 mg daily	200 mg daily	up to 400 mg daily, in divided doses

"Valgroate has been shown to inhibit glucuronidation and decrease the apparent clearance of imorbigine (see Drug Interactions (7), Chied Phermacology (1.2.3)), respectively. The properties of imorbigine (see Drug Interactions (7), Chied Phermacology (1.2.3)), respected antibigingly drugs, include estimation of the proteose inhibitors beginning and the proteose inhibitors beginning and the proteose inhibitors beginning that the proteose inhibitors are considered and the proteose inhibitor statement/floations (in the proteose inhibitors are commendation for or activate complex and the proteose inhibitor statement/floations (in the proteose inhibitors are seen in the proteose inhibitor statement/floations). Patterns or if ample and the proteose inhibitor beginning that indicate discount in the proteose inhibitors are provided in a proteose inhibitor beginning that indicate (2.1), Drug Interactions (7), Clinical Phermacology (1.2.1).

	,				
	Discontinuation of Psychotropic Drugs (excluding Valproate		After Discontinuation of Carbamazepine, Phenytoin, Phenobarbital, or Primidone		
	a,Carbamazepine,Phenytoin, Phenobarbital, or Primidone b)	After Discontinuation of Valproate a	6		
		Current Dose of Lamotrigine (mg/day)100	Current Dose of Lamotrigine (mg/day)400		
Week 1	Maintain current dose of Lamotrigine	150	400		
Week 2	Maintain current dose of Lamotrigine	200	300		
Week 3 onward	Maintain current dose of Lamotripine	200	200		

Greek J. Commission.

**Allipsace has been shown to which Equipment and Commission and Centrace the apparent clearance of Immotings (generally inferenciation). (7). Chinad Pharmacology (1.2.3)).

**Purgu that whose incomprings elucironistics and increase clearance, other than the "Design of Commission and Commission and

3.1 Tablets

3.1 Hauseus
25 mg, White to off white, round shape, flat face beveled edge, uncoated tablets
debossed with "45" on one side and break line on other side. 100 mg, White to off white, round shape, flat face beveled edge, uncoated tablets debossed with "1047" on one side and break line on other side.

Lamotrighe is contraindicated in patients who have demonstrated hypersensitivity (e.g., rash, angioedema, acute urticaria, extensive pruritus, mucosal ulceration) to the drug or its ingredients [see Boxed Warning, Warnings and Precautions (5.1, 5.3)].

5.1 Serious Skin Rashes (see Boxed Warning)

3.1 Services scan reasones (see access warming)
The incidence of services reason seek seek warming)
The incidence of services reason seek seek with hospitalization and discontinuation of lamorityrine in a prospectively followed colonit of pollotinir patients (aged 2 to 17 years) is approximately 0.3% to 0.8%. One rath-related death was reported in a prospectively interest to 0.5% to 0.8% of the colonity of the

There is evidence that the inclusion of valproate in a multidrug regimen increases the risi of serious, potentially iffe-threatening rash in pediatric patients. In pediatric patients who used valproate concombantly for epilepsy, 1.2% (6 of 482) experienced a serious rash compared with 0.6% (6 of 952) patients not taking valproate.

Adult Possible of Service and Possible attention and discontinuation of lamostriphe occurred in 0.3% IL 10 / 3.24(b) of adult patients who received immotriphe in prematesting clinical tribid of poliphys; in the bigother and other mood disorders riched in 15%. the rate of service rate has 0.00% IL of 1.23(b) of adult patients who received lamostriphe as habil and patients of the properties of the properties of the properties of the properties of the disputation of the properties of the properties of the properties of the properties of the workforder between properties of the p Among the rashes leading to hospitalization were Stevens-Johnson syndrome, toxic epidermal necrolysis, angioedems, and those associated with multiorgan hypersensi [see Warnings and Precautions (5.31)].

see warnings and recautions (3.39).

There is evidence that the inclusion of valproate in a multidrug regimen increases the risk of serious, potentially life threatening rash in adults. Specifically, of \$84 patients administered lamortigine with valproate in epilepsy clinical trails, 6 (15%) were hospitalized in association with rash: in contrast, 4 (0.16%) of 2,398 clinical trial patients and volunteers administered lamortigine in the absence of valproate were hospitalized.

Patientswithistiatory of Allergy or Rash to Other Antienlephic Drugs
The risk of nonserious rash may be increased when the recommended initial dose and/or the rate of dose escalation for lamotrigine is exceeded and in patients with a history of allergy or rash to other AEDs.

hatory of alongs or ranh to other AIDs.

2.2 Hemosphagos/tet, lymphohistoryotas (H41) has occurred in politric and adult patients faiting instruction for vorsion inclined. In the 3 feet briefening syndrome of the string instruction for vorsion inclined. In this 4 feet briefening syndrome of the syndrome of the string instruction of the string instruction of the syndrome of the sy

5.3 Mutborgan Hypersensthrifty Reactions and Organ Failure
Mutorigan hypersensitely reactions, also innom as dural reaction with oscionalists and
fifther threatening Discovery of the cut-lawly, present with recor, real,
and/or hymothemospathy in association with other organ system involvement, such as
rearrenting an active valification. Evaluation active the present in the organization of the organiz

wen amorgine. It is important to note that early manifestations of hypersensitivity (e.g., fever, lymphadenopathy) may be present even though a rash is not evident. If such signs or symptoms are present, the patient should be evaluated immediately. Lamortiques should be discontinued if an alternative etiology for the signs or symptoms cannot be established.

extablated.

Prior to inhibition of treatment with lamotrigine, the patient should be instructed that a read or other signs or symptoms of hypersensibity (e.g., fever, Jimphadenopathy) may hera'd a serbus medical event and that the patient should report any such occurrence to a health care provider immediately.

5.4 Cardiac Rhythm and Conduction Abnormalities

3.4 Cardiac Rhythm and Conduction Abnormalities
In vitro testing showed that sunctione exhibits Class is entertrythmic acting at
the street of the conduction of the conductio

Floatriyumin.

5.5 Blood Dyscrasias

There have been reports of blood dyscrasias that may or may not be associated multiorgan hypersensityley (also known as DRESS) (see Warnings and Precaudic (SJJ). These have included neutropenia, leukopenia, names, thornboxytopenia, pancytopenia, and, rarely, aplastic anemia and pure red cell aplasia.

5.6 Suckidal Berwisor and Ideation
AEDs. Including lamotrigine, horrease the risk of suicidal thoughts or behavior in patient
keinig hese drugs for any indication. Settlems treated with any AED for any indication
should be monitored for the emergence or worseming of depression, suicidal thoughts
or behavior, ander any unusual changes in model of behavior. Ander any unusual changes in model of behavior.

or behavior, ander any unusual changes in mode or behavior.

Pooled analyses of 199 lipectoc-control definical trials (monotherapy and adjunctive through) of 11 offerent AEDs showed that patients randomized to 1 of the AEDs toward that patients randomized to 11 of the AEDs toward that patients randomized to place the trial of the AEDs toward that patients are designed to the trial of 12 weeds, the estimated incidence of suckide behavior or leation among 7,1863.84 Device appearance of suckide behavior or leation among 7,1863.84 Device appearance of suckide behavior or leation among 7,1863.84 Device appearance of suckide behavior or leation among 7,1863.84 Device appearance of suckide behavior or leation among 7,1863.84 Device patients with 50% compared with the compared of the compared to the compared to

on sucro.

The increased risk of suicidal thoughts or behavior with AEDs was observed as early as 1 week after starting treatment with AEDs and persisted for the duration of treatment assessed. Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior beyond 24 weeks could not be assessed.

The risk of suicidal thoughts or behavior was generally consistent among drugs in the data analyzed. The finding of increased risk with AEDs of varying mechanism of action and across a range of indications suggests that the risk apples to all AEDs used for any indication. The risk did not vary substantially by age (5 to 100 years) in the clinical trials analyzed.

Indication	ndication Placebo Patientswith Events per 1,000 Patients Drug Patients with Events per 1,000 Patients per 1,000 Patients Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients Risk Difference: Additional Drug Patients with Events per 1,000 Patients				
Epilepsy	1.0	3.4	3.5	2.4	
Psychiatric	5.7	8.5	1.5	2.9	
Other	1.0	1.8	1.9	0.9	

The reliable risk for suicidal thoughts or behavior was higher in circial trials for epilepsy than in chical trials for psychiatric or other conditions, but the absoluter lisk differences were similar for the religious and psychiatric includations.

Anyone considering prescribing immortispine or any other AED must behave the trisk of successful behapility or their with with the risk of unresculed inscisping or their with the risk of successful behapility or their with with the risk of unresculed trisks. Epilepsy and many other considerance of their controlled trisks of their conditions of their controlled trisks of their controlled tr

shess being treated. Patients, their caregivers, and families should be informed that AEDs increase the risk of suckast thoughts and behavior and should be advised of the need to be alert for the emergence or workering of the signs and symptoms of depression, any uniscussion, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare provides.

heathcare providers.

3.7 Asagist Menhights
Therapy with Immirigine increases the risk of developing aseptic meningits. Biscause of
the potential for resizuo sociames of untreated meningis due to other causes, patients
should also be evaluated for other cause of meningis and resisted as appropriate,
should also be evaluated for other cause of meningis and resisted as appropriate,
should be the contraction of the cause of meningis and resisted as appropriate,
should be the cause of meningis and resisted rapidly. Rash, photopholis,
should be reported to core, which is day to one and a half months following
the relation of treatment. In most cases, symptoms were reported to resulve after
(from within 30 ministers to 1 day following relation of treatment) that were frequently
(from within 30 ministers to 1 day following relation of treatment) that were frequently
commenting the surface of the cause of the

autoimmune disease. Cerebrospinal fluid (CSF) analyzed at the time of clinical presentation in reported cases was chracterized by a mild to moderate placoytoss, normal glucose levels, and mild to present the control of the control

5.8 Potential Medication Errors
Medication rems involving lamoritypies have occurred. In particular, the name lamotripie can be confused with the names of other commonly used medications. No Medication errors may also occur between the different formulations of lamoritypies. The district of the confusion of

5.9 Concomitant Use with Oral Contraceptives

3-3 concentration use with una contraceproses. Some estrogen-containing oral contraceptives have been shown to decrease serum concentrations of lamortigine face fined Pharmacology (12.3). Dosage adjustments concentrations of lamortigine face fined Pharmacology (12.3). Dosage adjustments contraceptives with lateing lamortigine food booseage and deministration (2.1)). During the week of inactive hormone preparation (pil-free week) of oral contraceptive therapy, pleases instructive to be one procedure to lace, a much as doubles get the end of the week. Adverse reactions constained with devoted levels of lamortigine, such as disclarance, altains, and deplaying could occur.

So. 10 Withdrawal Sciences
As with other AEDs, Immoriting in should not be duringfly discontinued. In patients with religiously there is a possible of increasing seiture frequency, in clinical trails in adults with tiplote disorder. 2 patients experienced seitures shortly after aburyst withdrawal of immorting-inc. Unless adely concerns require a more rapid withdrawal, the dost of immorting-ins should be tapered over a period of at least 2 weeks (approximately 50% reduction per week) [per Dosage and Administration (2.11)].

realuction per wees (per localize and acministration (-1,11).

5.11 Satus Epidepticus

Valid estimates of the incidence of treatment-emergent satus epidepticus among
patients treated with hemoripie are defiliate to obtain because reporters participating in
clinical trials did not all employ identical rules for identifying cases. As a minimum, 7 of
-2,434 adult patients had epideosis that could unrepluced by defined reporter
epidepticus, in addition, a number of reports of variably defined episodes of seizure
excercabilate (e.g., seizure clusters, seizure hermich) were made.

5.12 Sudden Unexplained Death in Epilepsy (SUDEP)

During the premarketing development of lamotrigine, 20 sudden and unexplained deaths were recorded among a cohort of 4,700 patients with epilepsy (5,747 patient-years of

Some of these could represent soliure related deaths in which the seture was not observed, e.g., at night. This represents an incidence of 0.0035 deaths per patient-year. Almough this rise access fast appeared in a healthy propietion marked for or gas of a charge of the patient of the patie

Because valoroate reduces the clearance of lamotrigine, the dosage of lamotrigine presence of valproate is less than half of that required in its absence [see Dosage and Administration (2.2, 2.3, 2.4), Drug Interactions (7)].

and Administration (2.2, 2.3, 2.4), Oring Interactions (7)].

5.14 Blieding in the Spe and Other Melani-Containing Tissues

Because lamprispie brids to melain. It could accumulate in melanin-rich its issues over

time. This raise the prossibility that immorphism prov cause toxicity in these tissues eleentered out sur. Although ophthalmological setting was performed in 1 controlled clinical

terms exposure. Merower, the expecty of would be testing to discript probability and

consequence, if any, of Immorphism's bridge to melanine surfaces or consequence, if any, of Immorphism's bridge to melanine surfaces or Central

Paramacology (2.2, 2.3).

enarmacoagy (12.2]].

Accordingly, although there are no specific recommendations for periodic ophthalmological monitoring, prescribers should be aware of the possibility of long-term ophthalmologic effects.

ophthalmobigs effects.

3.15 laboratory Tests
False Daskie Disus Test Besuits
False Daskie Daskie Daskie Daskie Daskie Daskie Daskie Daskie Daskie
False Daskie Daskie

6 ADVERSE PEACTIONS

- 6 ADVESS FRACTIONS

 The follwarp service underse reactions are described in more detail in the Warnings and Precautionssection of the libeling:
 Service Skin Rehables (see Warnings and Precautions (5.3))

 Hemphopsyciet, in michaelshoptoble (see Warnings and Precautions (5.2))

 Hemphopsyciet, in michaelshoptoble (see Warnings and Precautions (5.2))

 Precautions (5.3)

 Cardiac Rehythm and Conduction Abnormables (see Warnings and Precautions (5.4))

 Cardiac Rehythm and Conduction Abnormables (see Warnings and Precautions (5.4))

 Suicide Bosines and eliastion (see Warnings and Precautions (5.4))

 Assigts: Meningits (see Warnings and Precautions (5.4))

 Withfrieds Securite (see Warnings and Precautions (5.4))

 Suiden Unexplained Death in Epilepsy (see Warnings and Precautions (5.12))

6.1 Clinical Trial Experience

A.C. Clinical Trial Experience.
Biocuran cinkard have conducted under widely varying conditions, whence reaction rates observed in the chical trials of a drug carnot be directly compared with rates in the clinical trials of inorther drug and more profrectly the rates observed in practice.
Exchange Medical Common Adverse Reactions in All Chical Trials. Adjunctive Therapy in Adults with Medical Common Adverse Reactions in All Chical Trials. Adjunctive Therapy in Adults with drug than placeful adverse reactions seen in association with learning trial control adjunctive therapy in adults and not seen an equipalent Repression yearing placeful adjunctive threapy in adults and not seen in association with learning trial placeful adjunctive threapy in adults and not seen an equipalent Repression, among someting, and reach Districts Specially, admits, and buffer which incourant proving mere doler resetted Districts, displays, admits, and buffer which incourant proving other ALDs with hamotripus. Chinci dates suggest a higher incidence of rash, including some and placeful than in patients not receiving concentral adjunctive threapy in premiserating clinical trials discontinuations are clined concentration proving the adjunctive threapy to premiserating clinical trials discontinuations were reaction from additional adjunctive threapy to premiserating clinical trials discontinuations were reaction more of adversers or the control and some proving additional adversers of the control additional adversers of the adversers of the discontinuation were adversers.

I nea Journ. In a downer or reaccurs most commonly associated with discontinuation were read to 10.0%, demand (1.0%), and the property of the

(4.5%). Measther (1.1%), and exhering (2.4%).

Advanctive Through Pediciler Patients in Relayporther not commonly observed (2.5%) for insertingine and more common on drug than placebol solvense reactions seen in association, with the use of insmortingine and solution to reduce the relative policy between the solution specific patients appear (2.1%) years and not seen at an equivalent rate in the control group were specific patients and the control group were specific patients. The place of the control group were specific patients aged 2.0 to years with partial-onset solveness or generalized seizures of Lamous Castasta, bravenes, 4.2% or placetures of Lamous Castasta, bravenes, 4.2% or placetures of the control group were controlled to the controlled patients aged 2.0 to years with partial-onset solveness or generalized seizures of Lamous Castasta, braveness, 4.2% or placetures of the controlled patients aged 2.0 to years of the controlled patients and the controlled p

reaction that led to descontinuation of amortingne was rash.

Approximately 1.5% of the 1.081 podeling polarity saged 2.0 16 years who received benotingne as adjunctive therapy in premarketing clinical trials discontinual treatment because of an adverse nearbon, the selevine nearbon manner in excellent and training dissociated with the process of the selection of the selection

Table 8. Adverse Reactions in Pooled, Placebo-Controlled Adjunctive Trials in Adult Patients with Epilepsy a,b

Percent o	Patients Receiving Adjunctive Lamo	trigine Percent of Patients Receiving Adjunctive Placebo
Body System/Adverse Reaction	(n = 711)	(n = 419)
Body as a whole		
Headache	29	19
Flu syndrome	7	6
Fever	6	4
Abdominal pain	5	4
Neck pain	2	1
Reaction aggravated	2	1
seizure exacerbation)		
Digestive		
Nausea	19	10
Vomiting	9	4
Diarrhea	6	4
Dyspepsia	5	2
Constination	4	3
Anorexia	2	ĭ
Musculoskeletal	-	•
Arthraigia	2	0
	4	0
Nervous		and the same of th
Dizziness	38	13
Ataxia	22	6
Somnolence	14	7
Incoordination	6	2
Insomnia	6	2
Tremor	4	1
Depression	4	3
Anxiety	4	3
Convulsion	3	1
rritability	3	2
Speech disorder	3	0
Concentration disturbance	2	1
Respiratory		
Rhinitis	14	9
Pharyngitis	10	9
Cough increased	8	6
Skin and appendages	-	
Rash	10	5
kasn Pruritus	3	2
Special senses	-	2
	20	
Diplopia Blurred vision	28 16	7 5
Vision abnormality	3	1
Urogenital		
Female patients only	(n = 365)	(n = 207)
Dysmenorrhea	7	6
Vaginitis	4	1
Amenorrhea	2	1

1
1
4 Adverse reactions that occurred in at least 2% of patients treated with lamoritipine and at a greater incidence than placebox.

Patients in these adjunctive trials were receiving 1 to 3 of the concentrate interple

In a randomized, parallel trial comparing placebo with 300 and 500 mg/day of lamotrigine, some of the more common drug-related adverse reactions were dose related (see Table 9).

Table 9. Dose-Related Adverse Reactions from a Randomized, Placebo-Controlled

Adjunctive Trial in Adults with Epilepsy					
Percent of Patients Experiencing Adverse Reactions					
Adverse Reaction Placebo (n = 73) Lamotrigine 300 mg (n = 71) Lamotrigine 500 mg (n = 72)					
Ataxia	10	10	28 ^{a,b}		
Blurred vision	10	11	25 a,b		
Diplopia	8	24 a	49 a,b		
Dizziness	27	31	54 a,b		
Nausea	11	18	25 a		
Vomiting	4	11	18 a		

*Significantly greater than placebo group (P<0.05).

*Significantly greater than group receiving lamotrigine 300 mg (P<0.05).

The event of dovers reaction privile for the ordinary services and services are services and services and services are services and services and ser

Table 10. Adverse Reactions in a Controlled Monotherapy Trial in Adult Patients with Partial-Onset Seizures

Per	cent of Patients Receiving Lamotrigine	Dose Valproate
Body System/Adverse Reaction	c as Monotherapy (n = 43)	d Monotherapy (n = 44)
Body as a whole		
Pain	5	0
nfection	5	2
Chest pain	5	2
Digestive		
/omiting	9	0
Dyspepsia	7	2
Vausea	7	2
Metabolic and nutritiona I		
Veight decrease	5	2
Veryous		
Coordination abnormality	7	0
Dizziness	7	0
Anxiety	5	0
nsomnia	5	2
Respiratory		
Rhinitis	7	2
Jrogenital (female patients only)	(n = 21)	(n = 28)
Ovsmenorrhea	5	0

Uropental (femde patents only) (n = 21) Oppentant/have Department/have Department/have Department/have Department/have Department/have Department/have Department/have Department/have Patents in this tive were converted to be lonotrigine or valence tenoscherapy from adjunctive therapy which carbonarappine or phenyton. Patents may have reported multiple adverse reactions during the trisk thus, patents may be included in more "Light of 50 mg/day," 4 1,000 mg/day.

Adverse reactions that occurred with a frequency of <5% and >2% of patients receiving lamotrigine and numerically more frequent than placebo were:

Addition to the control of the contr

Percen	rcent of Patients Receiving Lamotrigine Percent of Patients Receiving Placebo		
Body System/Adverse Reaction	(n = 168)	(n = 171)	
Body as a whole			
Infection	20	17	
Fever	15	14	
Accidental injury	14	12	
Abdominal pain	10	5	
Asthenia	8	4	
Flu syndrome	7	6	
Pain	5	4	
Facial edema	2	1	
Photosensitivity	2	0	
Cardiovascular			
Hemorrhage	2	1	
Digestive			
Vomiting	20	16	
Diarrhea	11	9	
Nausea	10	2	
Constination	4	2	
Dyspepsia	2	î	
Hemic and lymphatic	-	•	
Lymphadenopathy	2	1	
Metabolic and nutritional	2	1	
Metabolic and nutritional Edema	2	0	
	2	U	
Nervous system			
Somnolence	17	15	
Dizziness	14	4	
Ataxia	11	3	
Tremor	10	1 2	
Emotional lability	4	2	
Gait abnormality	4	2	
Thinking abnormality	3	2 2 1	
Convulsions	2		
Nervousness	2	1	
Vertigo	2	1	
Respiratory			
Pharyngitis	14	11	
Bronchitis	7	5	
Increased cough	7	6	
Sinusitis	2	1	
Bronchospasm	2	1	
Skin			
Rash	14	12	
Eczema	2	1	
Pruritus	2	1	
Special senses			
Diplopia	5	1	
Blurred vision	4	i	
Visual abnormality	2	n	
Urogenital	*	· ·	
Male and female patients			
Urinary tract infection	3	0	

Urinary tract infection 3 0

Adverse reactions that occurred in at least 2% of patients treated with lamotrigine and at a greater incidence than placebo.

Biolec Risorder in Adults.

The most common adverser reactions seen in association with the use of amortispie as monother by (100 ho 00) migrator) in adult nations (special 18 to 12 years) with highest monother by (100 ho 00) migrator) in adult nations (special 18 to 12 years) with highest included in Table 12, Adverser reactions that accounted a least 5% of patients, and were included in Table 12, Adverser reactions that accounted as least 5% of patients and were (when patients may have been re-relating concentrate mideations) compared with the monother way phase were: Installated (25%), rash (11%), dustrivers (10%), dustrivers (10%)

dreem absorbedly (19%), and protests (9%). Descriptions of the countries o

Percent	ercent of Patients Receiving Lamotrigine Percent of Patients Receiving Placebo		
Body System/Adverse Reaction	(n = 227)	(n = 190)	
General			
Back pain	8	6	
Fatigue	8	5	
Abdominal pain	6	3	
Digestive			
Nausea	14	11	
Constipation	5	2	
Vomiting	5	2	
Nervous System			
Insomnia	10	6	
Somnolence	9	7	
Xerostomia (dry mouth)	6	4	
Respiratory			
Rhinitis	7	4	
Exacerbation of cough	5	3	
Pharyngitis	5	4	
Skin			

Nash (nonserious) *

**Advance reactions that occurred in at least 5% of patients treated with lonoutrigine and size greater inclusion to the patients. The patients in these trails were converted to lamortrapie (100 to 400 miglisty) or placebol. Platients in these trails were converted to lamortrapie (100 to 400 miglisty) or placebol. Platients in these trails were converted to lamortrapie (100 to 400 miglisty) or placebol. Platients are provided in the patients of the patients of lamortrapie (100 to 400 miglisty) or place of lamortrapie (100 to 400 miglisty).

**South of the patients of lamortrapie (100 to 400 miglisty) or placebol. Platients who received invarings as selfal monotherapy and 0.13% (201 fold) and platients who received invarings are selfal monotherapy and 100 miglisty (100 fold) and platients of lamortrapie (100 miglisty) or platients that quality or more frequently in the placebol group recluded dispress, mainly headsofte, infection, influenza, pain, accelerabilishing, orderes, and opposphis.

Adverse reactions that occurred with a frequency of < 5% and > 1% of patients received juminishings and numerically more frequently has placedow were.

General Forer, reck pain.

Cardiovenciar Highlishe.

Dipentific Fellutiere.

Microbia and Murtificials Weight gain, edema.

Cardowacian: Highnan
Digenther Pitalium:
Metabolic and Nutrifician Weight gain, edema.
Metabolic and Nutrifician Weight gain, edema.
Mescubasideata: Artrafaja, mydgia.
Nervous Sylaem: Ammesia, despression, appliatin, emotional lability, dyspraxia, abnormal
Resportancy: Sinakia. Uncoparitata: Uminary frequency.
Adverse Recutions following Advança Discontinuation: In the 2 controlled cincal tries,
there was no increase in the incidence, severily, or type of advances reactions in patients
with bipolar discorder after advança Vermandrig therapy with lamost gain. In the clinical
history after advança which and of lamoriting-line (Warrings and Preactions (5.10)).
Metain-Ryponania/Metad Episodocic During the double-blied piticeto-controlled chical
trials in blogial to calor in which, south were convented in ammelbrary with
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6.2 Other Adverse Adverse Reactions Observed in All Clinical Trials

6.2 Other Adverse Noteron Rocctions Observed in Al Circial Trials. Lordright pass be administered to (8.6) thinkhallo for himm compiles absence reaction data was captured during all circial trials, only some of which were picceto controlled. During hose trials, all other services were recorded by the circial controlled burse properties of the proportion of individuals being adverse reactions, similar types of adverse controlled burse properties of the proportion of individuals being adverse reactions, similar types of adverse creations, were proposed into anymale renormal of standardizated appropriate using modified the 6.064 individuals exposed to lamorityine who experienced an event of the type cited on a least 1 controlled white reading participae. Air reported adverse reactions are the controlled to the controlled of the

Body as a Whole Infrequent:Allergic reaction, chills, malaise.

Cardiovascular System
Infrequent:Flushing, hot flashes, hypertension, palpitations, postural hypotension, syncope, tachycardia, vasodiation.

Infrequent.Acne, abpecia, hissutism, macuippapular rash, skin discoloration, urticaria Rare.Anjoidema, eryhtema, erfoliabre dermetita, fungal dermatita, herpes zoster, leukoderma, multiforme eryhtema, petechial rash, pustular rash, Stevens-Johnson pyndroma, vesicubbulbus rash. Dipastiva System

Digastius: System infrequent Dysphapia, eructation, gastritis, ginglytis, increased appetite, increased salvation, lever function tests shormed, mouth uteration. ARR-of Castrointettanh inhernitrage, glossist, guint hemorrhage, gum hyperplasia, hematemesis, hemorrhagic colitis, hepatitis, melena, stomach uter, stomatilis, tongue edema.

hematemisk, hemorrhagic collés, hépatiks, mélena, stomach ućer, sfomatiks, tongue cóman.

Endocrins System

Rare Golder, hypothyroidem.

Hematologis and Lumbalisk System

Infrequent Eschymosis, kuskopenis.

Rare Anemis, ecarizophilis, fizrin decrease, fizrinogen decrease, iron deficiency anemis, elsukoyorisks, mellocytes, menorycytes, anemis, petechsis, thrombocytopenis.

Metabolis, and Mistribandi Bisoriers

Infrequent-Aparties trans animises increased.

Rare Aktolo Intolerance, alsaline phosphatase increase, slarine transamisase increase, bisoriers decrease, increase, thrombocytopenis.

Musicialisatedia System

Infrequent-Attribut, por amps, mystemis, twicking.

Rare Burst, musica atrophy, pathological fracture, tendrous contracture.

Nenous System

Nervous System Frequent:Confusion, paresthesia.

Infrequent-Akathisia, apathy, aphasia, central nervous system depression, depersonalization, dysarthris, dysiknesia, euphoria, hallucinations, hostilty, hyperkinesia, hypertonia, libid decreased, memory decrease, midra dracing, novement disorder, myochrus, panic attack, paranoid reaction, personality disorder, psychosis, skep disorder, stupor, suicibal deathor.

Rare Choreathetost, defium, debzions, dysphoria, dysphoria, bysporalgesia, hyporatelastic syndrome, farstness, grand mal convulsions, hemiplegia, hyporatysia, tryporesthesia, hypotonia, manic depression reaction, muscle spasm, neuralpia, neurosis, paralysis, per planel neur bis.

Respiratory System

Infrequent:Yawn. Rare:Hiccup, hyperve

Special Senses Frequent:Amblyopia.

FrequentAmblyopia.

InfrequentAbnormally of accommodation, conjunctivitis, dry eyes, ear pain, photophobia, taste perversion, tinntus.

Reare-Defress, iscrimation disorder, oscillopsia, parosmia, ptosis, strabismus, taste loss, uvelta, visual field defect.

boss, uveten, voorte neue de legende l

Incombined.

Ren-Acute is king failure, amorgamia, breast abscess, breast neoplasm, creativine increase, cytiste, dynumis, epidopriist, female lactions, kittery failure, lacking youn, neoplasm, company superior, according to the company and the company a

Blood and Lymphatic Agranulocytosis, hemolytic anemia, lymphadonepathy not associated with hypersensitivity disorder.

hypersensitivity disorder.

<u>Gastrointestinal</u>

Esophagitis.

<u>Hepatobiliary Tract and Pancreas</u>

Aggression, exacerbation of Parkinsonian symptoms in patients with pre-existing Parkinson's disease, tics.

Non-site Specific

Renal and Urinary Disorders
Tubulointerstitial nephritis (has been reported alone and in association with uveits).

7 DRUG INTERACTIONS

Unitine 5'-diphospho-glucuronyl transferases (UGT) have been identified as the enzymes response ble for metabolism of lampine. Drugs that induce or inhibit glucuron relations between the part and the part and and use of the part and the part of the part and the part of the part of

is prov 2.1)].

Additional details of these drug interaction studies are provided in the Clinical Pharmacology section [see Clinical Pharmacology (12.3)].

		Table 13. Established and Other Potentially Significant Drug Interactions
Concomitant Drug	Effect on Concentration of Lamotrigine or Concomitant Drug	
containing oral contraceptive preparations containing 30 mcg ethinylestradiol and 150 mcg levonorgestrel	↓ levonorgestrel	Decreased Innotigine concentrations approximately 50%. Decrease in levenorrgestrel component by 19%.
		Addition of carbanazepine decreases ismotrigine concentration approximately 40%. May increase carbanazepine govice levels.
Lopinavir/ritonavir		Decreased Ismotrigine concentration approximately 50%.
Atazanavir/ritonavir	↓ lamotrigine	Decreased lamotrigine AUC approximately 32%.
Phenobarbital/primidone	↓ lamotrigine	Decreased Ismotrigine concentration approximately 40%.
Phenytoin	↓ lamotrigine	Decreased lamotrigine concentration approximately 40%.
Rifampin	↓ lamotrigine	Decreased lamotrigine AUC approximately 40%.
Valproate	† lamotrigine ? valproate	Increased lamotrigine concentrations slightly more than 2/old. There are conflicting study results regarding effect of lamotrigine on valproate concentrations: 1) a mean 25% decrease in valproate concentrations in healthy volunteers, 2) no change in valproate concentrations in controlled clinical trials in patients with epilepsy.

Decreased (induces lamotrigine glucuronidation).
 †= increased (inhibits lamotrigine glucuronidation).
 ?= Conflicting data.

Effect of Lamotrigine on Organic Cationic Transporter 2 Substrate

Lamotrigine is an inhibitor of renal hubbles secretion via organic catonic transporter 2 (OCT2) proteins [see Clinical Pharmacology (12.3)]. This may result in increased plasma levels of certain drugs that are substantially excreted via this route. Cooliminatriation of lamotrigine with OCT2 substrates with a narrow therapeutic index (e.g., dofetible) is not recommended.

8.1 Pregnancy Pregnancy Registry

Bit Summer

To specify the graph of the property of major studies of pregnate somes have not detected an increased frequency of major compared annotation or a consistent pattern of mallormatical annotation or a consistent pattern of mallormatical annotation of the property of the prope

Lam Unit, Tespectory, Clinical Consideration, Physiological changes during pregnancy may affect lamotrigine concentrations andient interspectic effect. There have been reports of decreased benefit price conventration and entry pregnancy and restoration of pre-pregnancy and restoration of the conventration of the pregnancy and restoration of pre-pregnancy and restoration of the conventration of the pregnancy and restoration of pre-pregnancy and restoration of the conventration of the pregnancy and restoration of pre-pregnancy and restoration of the conventration of the pregnancy and the conventration of the pregnancy and the conventration of the conventration of the pregnancy and the conventration of the c

response.

Data

Maman Data: Data from several international pregnancy registries have not shown an increased risk for malformations overall. The international Lamotrigine Pregnancy recreased risk for malformations overall. The international Lamotrigine Pregnancy 1.558 intents exposed to International International Programs of Lamotrigine International Internation

was similar to estimates from the general population.

The NABAD Presponse, registry boserved not increased risk of soluted oral circles same 3,200 erion exposed to temority nearly to presponse, the risk of oral circles was 3,2 per 1,000 fe/sh (2.11,4.5), a 3 half in chreated risk versus unexposed healthy control.

Furthermore, a case-control study based on 21 congretal anomaly registres covering over 11 million brisks in Europe reported an adjusted door, stork for hoedeer of acid extension and another oral control study based on 21 congretal anomaly registres covering over 11 million brisks in Europe reported an adjusted door, stork for hoedeer of acid extension and another oral control stork in the stork of t

In a study in which prepand rate were administered lamoritipine (oral doses of 0, 5, or 25 mg/s) during the period of organogenesis and offspring were evaluated postnatsly an enurobehavioral abnormalities were observed in exposed offspring a both doses. The lowest effect dose for developmental neurotoxicky in rats is less than the human dose of 400 mg/slay on a mg/m ²-5as. Methernal toxicky was observed at the higher dose

When pregnant rats were administered lamotrigine (oral doses of 0, 5, 10, or 20 mg/kg) during the letter part of gestation and throughout lactation, increased offspring mortally (including sighterita) was seen at a dioses. The broad effect stops for pre- and mortally including sighterital was seen at a dioses. The broad effect stops for pre- and angle "basis. Maternal toxicity was observed at the 2 highest doses tested.

When administered to remonate "at the "basis of the 2 highest doses tested."

When administered to pregnant rats, lamotrigine decreased fetal folate concentration at doses greater than or equal to 5 mg/kg/day, which is less than the human dose of 400 mg/day on a mg/m ²basis.

8.2 Lactation

8.2 Locations
Back Summary
Lendropre by present in mile from location women toking beneficigine baddes (see Dual).
Lendropre by present in mile from location women toking beneficigine deaded for Dual).
and mile feeds can rise to high levels postpartum if lamotingine desage has been increased alloring programs by the feed for the proper programs.
Increased large programs by this in our reduced after offselve to the proper programs.
Increased large programs of the proper programs of the proper programs.
Increased large programs of the proper programs of the proper programs.
Increased large programs of the proper proper proper without to the level of the programs.
Increased large proper proper without on the offsets of the drug or mile production.
The developmental of health benefits of the considered proper production.
The developmental of health benefits of the considered drug with breastfeld infant from lamotingine or from the underlying maternal condition.

Cincal Considerations

Human mik-fed infants should be closely monitored for adverse events resulting from ibmortigine. Measurement of infant serum levels should be performed to rule out toxicity if concerns arise. Human mik-feeding should be discontinued in infants with lamotrigine toxicity.

<u>Data</u> Data from multiple small studies indicate that lamotrigine plasma levels in nursing infants have been reported to be as high as 50% of maternal plasma concentrations.

Lamotriphe is indicated as adjunctive therapy in patients aged 2 years and older for partial-onset seizures, the generalized seizures of Lennox-Gastaut syndrome, and PGTC seizures.

parties device stainures, the generalized sectors of Leanner-Castand syndrome, and PCIT-Sectors.

Safety and efficacy of benediging used on adjunction tendement of protection of citizeness and the control of the con

suicisi ficiation (immotrigine %), piscebo (%). Jacomile Aniama (Jata) in which hemotrie (oral doses of \$, 15, or 30 mg/kg) was deministered by ounge sits (postnesid days 7 to 6.0), decreased violelity and growth submitted to the proper sits (postnesid days 7 to 6.0), decreased violelity and growth successive size of the siz

8.5 Geriatric Use

Cincal tals of lamoritipies for galeacy and bipole disorder did not include sufficient numbers of plateins aged 63 years and other to determine whether they respond differently from younger posteriors or exhibit a different safety profile than that of younger posterior, in preend, does section for an otherly peters should be countries, or exhibit a different safety profile than that of younger posterior, in preend, does section for an otherly peters should be countries, or desired the profile of the profile of

therapy.

8.6 Hepatic Impairment
Experience in patients with Hepatic Impairment is limited. Based on a chical
phormacology study in 34 subjects with mid. moderate, and severe liver impairment
phormacology study in 34 subjects with mid. moderate, and severe liver impairment.
In do clasge adjustment is needed in patients with mid lever impairment, initial,
exception, and maniferance doses though perior livery laws (september 1997), and a september of the control of the

10 OVERDOSAGE

10.1 Human Overdose Experience

Overdoses involving quantities up to 15 g have been reported for lamotrigine, some of which have been fasta. Overdose has resulted in ataxia, nystagmus, setures (including tons-chenic setures), decreased level of consciousness, coma, and intraventricular conduction debut.

Conduction delay.

10.2 Management of Overdose

There are no specific antidotes for femotrispine, Following a suspected overdose, hospitalization of the patients a solved. General supportive care is indicated, including frequent monitoring of vital signs and close observation of the patient if indicated, frequent monitoring of vital signs and close observation of the patient if indicated, including the contraction of the patient if indicated, and indicated the contraction of the patient indicated and contraction of the patient indicated and contraction of the contraction of th

11 DESCRIPTION

The second of the prophistor class, is chemically unrelated to existing the Line Line Country of the Country of



Lamotrigine tablets, USP are supplied for oral administration as 25-mg (white to off white), 100-mg (white to off white) tablets. Each tablet contains the labeled amount of lamotrigine, USP and the following inactive ingredients: Isctose monohydrate: magnesium stearate; microcrystaline cellulose; powdone; and sodium starch glycolate.

Meets USP Dissolution Test 3

12.1 Mechanism of Action

12.1 Mechanism of Action

The precise mechanism by which lamorityine everts its anticonvulsant action are unknown, in animal models designed to detect anticonvulsant activity, lamorityine was effective in preventing series spread in the maximum decitrostock (BHS) and pereylendertrazol (i.c bett tests, and prevented setures in the visually and electrically enhanced tests of the prevention of the prevention

use may remove state. The retexence of these models to human policype, however, is not known.

One proposed michanism of action of lamoritying, the relevance of which remains to be statules subgest that lamorityine inhibits voltage-sensitive sould michannels, thereby stablishing personal membranes and consequently modulating presynaptic transmitter retexes of excitating man code (s.g., dynamics and appartual).

Effect oil amortispine on its Methyl & Senatrate because in Methyl amount objective actions in all Lamoritypine on the Methyl & Senatrate (MRML) include objective actions in a claimortispine displace compounds that are either compositive for model knowledge displace compounds that are either compositive for model (michanism policy). SCD (MPI) the Light plamority are displaced compounds that are either compositive for model profit profit of the plamority of the profit profit plants are the compositive for model (MI) and continuous profit plants are considered to the plants are considered to the plants and the profit plants are considered to the plants are considered

The mechanisms by which lamotrigine exerts its therapeutic action in bipolar disorder have not been established.

12.2 Pharmacodynamics

12.2 Pharmacodynamics The Distable Metabolism In vision, involving in whished disyndrolosise reductase, the enzyme that cashyas the In vision, involving whished disyndrolosise reductase, the enzyme that cashyas the which the biosynthesis of nucleic acids and proteins. When real daily doses of amorting with the biosynthesis of nucleic acids and proteins. When real daily doses of amorting which is the protein of the concentrations were also reduced in male rate speen regelesed and dose of lamortings coincide and the reduced in male rate speen regelesed and dose of lamortings coincide and the reduced in male rate speen regelesed and dose of lamortings coincide and the reduced in the reduced to remain which supplemented with Particle of Lamortings in view to studies allow that benotrigine exhibits Class III Reflect of Lamortings in view to studies allow that benotrigine exhibits Class III Reflect of Lamortings in view to studies a show that benotrigine exhibits Class III Reflect of Lamortings in view to studies a show that benotrigine exhibits Class III Reflect of Lamortings in view to studies a show that benotrigine exhibits Class III show that the studies of the studies and the studies and strong violage cardiac sodium charries with white Class II shortly of Study, however, in patients with circles in post that structure of runctional hard reduced (i.e., playeds syndrome), clinically important schemic, beautiful control of the rate could also becrease the risk of ventricular conductions to a 2-Ne-Friend of Lamortings in reducibles in day controlings and control as 2-Ne-Friend of Lamortings in reducibles in day controlled as 2-Ne-Friend of Lamortings in reduced the control of the control of the control of the protein controlled on the control of the control of the control of the shortly of the controlled on the control of the shortly of the controlled on the control of the shortly of the controlled on rates could also increase the risk of vertificate conduction slowing with bendrighter. Effect of Jamorigher Mediabelle: logls, untertriple is extensibly prehabblished to 2-N-imply metabolished to 4-N-imply metabolished to 4-N

Accumulation in Kidneys

Lamotrigine binds to melanin-containing tissues, e.g., in the eye and pigmented skin. It has been found in the uveal tract up to 52 weeks after a single dose in rodents.

12.3 Pharmacokinetics
The pharmacokinetics of ismotrigine have been studied in subjects with epilepsy. The pharmacokinetics of ismotrigine have been studied in subjects with epilepsy. The propriate of the pharmacokinetics and outside the subject and healthy normal volunteers are summarized in Tables 14 and 16.

Table 14. Mean Pharmacokinetic Parameters *in Healthy Volunteers and Adult Subjects with Eplepsy					
	Number of Subjects	T _{max} : Time of Maximum Plasma Concentration (h)	t _{1/2} : Elimination Half-life (h)	CL/F: Apparent Plasma Clearance (mL/min/kg)	
Healthy volunteers taking no other medications:					
Single-dose Lamotrigine	179	2.2	32.8	0.44	
Multiple-dose Lamotrigine	27.5	(0.25 to 12.0)	(14 0 to 103 0)	(0.12 to 1.10)	
	36	1.7	25.4	0.58	
		(0.5 to 4.0)	(11.6 to 61.6)	(0.24 to 1.15)	
Healthy volunteers taking valproate:					
Single-dose Lamotrigine		1.8	48.3	0.30	
Multiple-dose Lamotrigine	6	(1.0 to 4.0)	(31.5 to 88.6)	(0.14 to 0.42)	
	18	1.9 (0.5 to 3.5)	70.3 (41.9 to 113.5)	0.18 (0.12 to 0.33)	
Subjects with epilepsy taking valproate only:		(0.5 to 5.5)	(42.5 (0 225.5)	(0.11 to 0.33)	
Single-dose Lamotrigine					
	4	4.8 (1.8 to 8.4)	58.8 (30.5 to 88.8)	0.28 (0.16 to 0.40)	
		(1.8 to 8.4)	(30.5 to 88.8)	(0.16 to 0.40)	
Subjects with epilepsy taking carbamazepine, phenytoin, phenobarbital, or primidone					
Subjects with epilepsy taking carbamazepine, phenytoin, phenobarbital, or primisione Polus valproate:					
Single-dose Lamotrigine	25	3.8	27.2	0.53	
• • • • • • • • • • • • • • • • • • • •	25	(1.0 to 10.0)	(11.2 to 51.6)	(0.27 to 1.04)	
		(2.2.2.2.20.0)	(22.2.00 32.0)	(2.2. 30 2.04)	
Subjects with epilepsy taking carbamazepine, phenytoin, phenobarbital, or primidone:	1				
Single-dose Lamotrigine Multiple-dose Lamotrigine	24	2.3	14.4	1.10	
nutiple dose carrioti gine		(0.5 to 5.0)	(6.4 to 30.4)	(0.51 to 2.22)	
	17	2.0	12.6	1.21	
	-/	(0.75 to 5.93)	(7.5 to 23.1)	(0.66 to 1.82)	

"The majority of parameter means determined in each study had coefficients of variation between 20% and 40% for half-let and CLF and between 20% and 70% for Trans. The owner'd mean values were clasticated from Institute their terms registrate the control of the control of the control of their classification of the control of their classification of their classific

Absorption

Increase the apparent clearance of immutragive (see Drug Interactions (7)). Abstraction

Lamotripies is rapidly and completely shoulded after and administration with neighble frest past insteadable in 10 stilling the property of the prope

The effects of lamotrigine on the induction of specific families of mixed-function oxidase isozymes have not been systematically evaluated.

iscaymes have not been systematically evaluated.

Following mulpis deninistrations (150 mg) taked allyl to normal volunteers taking no other medications, lemotrage is ablected by own metabolism, resulting in a 25% decrease same volunteers following a single does, for soldence gathered from other sources asserve volunteers following a single does, for soldence gathered from other sources asserve volunteers following a single does, for soldence gathered from other sources asserved that self-flaction by innotingine may not occur when benderings believed properties and the processes of the self-flaction by innotingine may not occur when benderings believed in the processes of the self-flaction by the self-flaction by

Elimbation
The elimbation half-life and apparent clearance of lamotrigie following oral
administration of lamotrigies to adult subjects with splaysy and healthy volunteers is
summarized in Table 14-field level adoption or of chemical word updoeding on
Table 1990 and the subject of the subject of the condiministration of certain
medications for elimbating and Procautions (5.9, 3.13), thoug Interactions (7)),
The paper of chemical point of the condiministration of certain
medications for effects of drugs therefore with humorities are assummarized in Tables 13 and
15. followed by details of the drug threaction studies below.

	Table 15. Summary of Drug Interactions with Lamot	rigine
Drug	Drug PlasmaConcentration withAdjunctiveLamotrigine	Lamotrigine PlasmaConcentration with Adjunctive Drugs b
Oral contraceptives (e.g., ethinylestradiol/levonorgestre)	++ d	1
Aripiprazole	Not assessed	↔ 0
Atazanavir/ritonavir	#f	1
Bupropion	Not assessed	*
Carbamazepine	**	1
Carbamazepine epoxide ⁹	?	
Felbamate	Not assessed	*
Gabapentin	Not assessed	**
Lacosamide	Not assessed	*
Levetiracetam	↔	*
Lithium	**	Not assessed
Lopinavir/ritonavir	** ⁶	4
Olanzapine	**	↔ ⁶
Oxcarbazepine	**	*
10-Monohydroxy oxcarbazepine metabolite h	↔	
Perampanel	Not assessed	*
Phenobarbital/primidone	**	1
Phenytoin	**	1
Pregabalin	+	*
Rifampin	Not assessed	1
Risperidone	**	Not assessed
9-Hydroxyrisperidone i	↔	
Topiramate	++i	**
Valproate	1	†
Valproate + phenytoin and/or	Not assessed	**
carbamazepine		
Zonisamide	Not assessed	*

Estrogen-Containing Oral Contraceptives

Lating for the contribution of the contributio

the end of the active formone cycle.

Gendell'arraient inversees i himotripe plasma levels (approximate 2-fod increase) occurred during the week of inactive hormone preparation (pill free week) for women not also bisking a dring his enreased the clasmace of lamorizing in colaranseeping, and too listing a dring his enreased to elevative of colaranseeping, which is the colaranseeping of the feet of the feet days before or during the advancer excitors.

odverse reaction. In the same study, coadministration of lemotrigine (190 mg/day) in 16 female volunteers did not affect the pharmacolimiters of the dishysterstands component of the oral feet the pharmacolimiters of the dishysterstand component of the oral feet the pharmacolimiters of the dishysterstand component of the oral feet the pharmacolimiters of the oral feet the pharmacolimiters of the oral feet the oral feet

evaluated in controlled cinculs trials.

The clinical significance of the observed hormonal changes on ovulatory activity is unknown. However, the possibility of decreased contraceptive efficacy in some patients cannot be excluded. Therefore, patients should be instructed to promptly report changes in their menstrual pattern (e.g., break through bleeding).

changes in their menturul pattern (e.g., break-through bleeding).

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In 18 patients with bipolar disorder on a stable regimen of 100 to 400 mg/day of lamotrigine, the lamotrigine AUC and C mawere reduced by approximately 10% in patients who received aripiprazole 10 to 30 mg/day for 7 days, followed by 30 mg/day for an additional 7 days. This reduction in lamotrigine exposure is not considered

centrum y meaningrui. Matzinansin/Ribonovi.
In a study in healthy voluntieres, daily doses of attazanavir/intonavir (300 mg/100 mg).
In a study in healthy voluntieres, daily doses of attazanavir/intonavir (300 mg/100 mg).
In ordinario Allica and Carachel International Control of the Contr

<u>Buoropion</u>

The pharmacokinetics of a 100-mg single dose of lamotrigine in healthy volunteers (n = 12) were not changed by coadministration of bupropion sustained-release formulation (150 mg twice daily) starting 11 days before lamotrigine.

Carbamasceine

Limortigne has no appreciable effect on steady-state carbamazepine plasma concentration. Limited clinic did data suppost there is a higher incidence of dictriness, concentration. Limited clinic did data suppost there is a higher incidence of dictriness, concentrations of carbamazepine power and concentrations of carbamazepine power has make the majoration for several most representation of the interaction is unclear. The effect of lemotropie on plasma concentrations of carbamazepine power but unclear in a small subset of patients (in a concentrations of carbamazepine power and concentrations) and concentrations of carbamazepine power and concentrations. On the carbamazepine describe levels increased.

The addition of carbamazepine decreases lamotrigine steady-state concentrations by approximately 40%.

approximately across. Febanate
In a trial in 21 healthy volunteers, coadministration of febanate (1,200 mg twice daily) with lamotrigine (100 mg twice daily for 10 days) appeared to have no clinically relevant effects on the pharmacoknetics of lamotrigine.

Lamotrigine is a weak inhibitor of dihydrofolate reductase. Prescribers should be aware of this action when prescribing other medications that inhibit folate metabolism.

Plasma concentrations of lamotrigine were not affected by concomitant lacosamide (200, 400, or 600 mg/day) in placebo-controlled clinical triels in patients with partial-onset setures. Gabapentin

onset secures, sabapenton

Based on a retrospective analysis of plasma levels in 34 subjects who received lamotrigine both with and without gabapentin, gabapentin does not appear to change the apparent clearance of lamotrigine.

These data indicate that immorphise does not influence the pharmacokinetics of benefatic action and the elevate action does not influence the pharmacokinetics of benefatic actions and the elevate action of not influence the pharmacokinetics of thium were not alread in healthy subjects (n=20) by coad-ministration of lumorityne 1000 mg/desy for 6 days (see 1000 mg/desy) for 6 days (localized Albanaux). The addition of benefative 1000 mg/desy) for 6 days (localized Albanaux). The addition of benefative 1400 mg/desy) for 6 days (localized Albanaux) for 6 days) (decreased the Albanaux) for 1400 mg/desy) for 6 days) (decreased the Albanaux) for 1400 mg/desy) for 6 days) (decreased the Albanaux) for 1400 mg/desy) for 6 days) (decreased the Albanaux) for 1400 mg/desy) for 6 days) (decreased the Albanaux) for 1400 mg/desy) for 6 days) (decreased the Albanaux) for 1400 mg/desy) (decreased the Albanaux) (decreased t

Olanzapine

Obscassion

The AUC and Care of obscrapine were similar following the addition of obscrapine (15 mg once daily) to benotingine (200 mg once daily) in benotingine (300 mg once daily) in the country of t

Occarbasesine

The AUC and C_{ent} and contratespine and its active 10-monohydroxy occarbasespine metabolic were not significantly different following the addition of occarbasespine (600 compared with healthy mile voluntiers receiving occarbasespine (600 compared with healthy mile voluntiers receiving occarbasespine (600 compared with healthy mile voluntiers correcting occarbasespine (600 grows) and somewhere with condemnships of the occarbasespine (600 grows) and somewhere with condemnships of somewhere with condemnships of the occarbasespine considered with herotriples and occarbasespine considered and occarbasespine considere

Traditions
In a pooled analysis of data from 3 placebo-controlled clinical trials investigating adjunctive perampanel in patients with partial-onset and primary generalized tonic-sectures, the highest perampanel dose evaluated (12 mg/dsy) increased importing inclearance by < 10%. An effect of this magnitude is not considered to be clinically relevant.

Phenobarbital, Primidone

The addition of phenobarbital or primidone decreases lamotrigine steady-state concentrations by approximately 40%.

Phenytoin

Lamotrigine has no appreciable effect on steady-state phenytoin plasma concentrations in patients with epilepsy. The addition of phenytoin decreases lamotrigine steady-state concentrations by approximately 40%.

Prepabalia Steady-state trough plasma concentrations of lamotrigine were not affected by concomitant pregabalin (200 mg 3 times daily) administration. There are no pharmacokinetic interactions between lamotrigine and pregabaline and pregabalism.

Reportion
In a 14 healthy volunteers study, multiple and doses of lemotrigine 400 mg dely had no clinically significant effect on the single-dose planmacokinetics of reportione? mg and to a scake metabolic 90-01 reportione 10 colonizing the conditionization of reportione? 2 mg with innortigine. 12 of the 14 volunteers reported sommolence compared with 1 out of 200 ml nortigine may administered only the interpretation was given above, and none when tentrigine was administered object them to precious was given above, and none when tentrigine was administered object them to precious was given above.

Topiramate resulted in no change in plasma concentrations of lamotrigine. Administration of lamotrigine resulted in a 15% increase in topiramate concentrations

"Administration of the content of a 1.5% in the earth of the content of the about "Administration of the content of the conte

Zonisamide

In a study in 18 patients with epilepsy, coadministration of zonisamide (200 to 400 mg/day) with lamotrigine (150 to 500 mg/day for 35 days) had no significant effect on the pharmacokinetics of lamotrigine.

the pharmacolentes of amortrigine.

Klownn Indusers on Inhibitors of (Electronisistes)
Drugs other than those listed above have not been systematically evaluated in combination with innovaries. Since inharitipe is metabolized predominably by combination with innovaries and combination of the combi Other

Object.

To whosesessment of the inhibitory effect of lamoritique at OCT2 demonstrate that the lamoritypic solt not the INC2 placements metabolite, is an inhibitor of OCT2 at potentially inclinately reflect of DCT2 at potentially circle of Inc2 placements metabolite, is an inhibitor of OCT2 at potentially circle of Inc2 placements metabolite, is an inhibitor of Inc2 placement of Inc2 pla

women w amongrape present in the body was eleminated by hemotologies during in a beautor session (Jaco Desage and Administration (2.1)).

Patients with Hepatic Imparament The plusmaccianatics of lemotrapire Globaring a single 100mg date of investing new rea valuation 2.3 a Judges; with Min moderate, and 50 mg date of investing new rear valuation 2.3 a Judges; with Min moderate, and subjects with some hepatic Impairment were without action (in = 0.2) with scale; to 10, 3.1 he trainer appear the cleanance of 2.1 and sovere with scales (in = 0.3) he min moderate, and consideration of 2.1 and sovere with scales (in = 0.3) her mining type ready, as compared with 0.23 e.0. 10, 0.21 a 10.4 and 0.23 e.0 for minimality respectively, as compared with 0.23 e.0. 10, 0.21 a 1.00 km of 0.23 e.0 for minimality respectively, as compared with 0.23 e.0. 10, 0.21 a 1.00 km of 0.23 e.0 for minimality respectively, as compared with 0.23 e.0. 10, 0.21 a 1.00 km of 0.23 e.0 for minimality respectively, as compared with 0.23 e.0. 10, 0.21 a 1.00 km of 0.23 e.0 for minimality respectively, as compared with 0.23 e.0 for minimality respectively, as compared with 0.23 e.0 for 0.20 km of 0.20 km of

momental age, same use year maccorrect perameters for pediatric patients are summerated in Table to adult or moving validities aged 1.2 11 years. Population pharmacolination and extensive was influenced perdomanely by table does not extensive the same of the pediatric patients and pediatric patients and pediatric patients and pediatric patients then in adults. Weight enormalized lamotrigine clearance was influenced in those subjects weighting of 30 in government with holde weighting of 30 in the pediatric patients then in adults. Weight enormalized unabling the same of the pediatric patients and the pediatri

Table 16. Mean Pharmacokinetic Parameters in Pediatric Subjects with Epilepsy

	Number of Subjects	T max(h)	t 1/2(h)	CL/F (mL/min/kg)
Ages 10 months to 5.3 years				
Subjects taking carbamazepine, phenytoin, phenobarbital, or	10	3.0	7.7 (5.7 to 11.4)	3.62 (2.44 to 5.28)
primidone a		(1.0 to 5.9)		
Subjects taking antiepilepti cdrugs with no known effect on the	7	5.2	19.0 (12.9 to 27.1)	1.2 (0.75 to 2.42)
apparent clearance of lamotrigine		(2.9 to 6.1)		
Subjects taking valproate only	8	2.9	44.9	0.47
		(1.0 to 6.0)	(29.5 to 52.5)	(0.23 to 0.77)
Ages 5 to 11 years				
Subjects taking carbamazepine, phenytoin, phenobarbital, or primidone a	7	1.6 (1.0 to 3.0)	7.0 (3.8 to 9.8)	2.54 (1.35 to 5.58)
Subjects taking carbamazepine, phenytoin, phenobarbital, or primidone a plus valoroate	8	3.3 (1.0 to 6.4)	19.1 (7.0 to 31.2)	0.89 (0.39 to 1.93)
Subjects taking valproate only b	3	4.5 (3.0 to 6.0)	65.8 (50.7 to 73.7)	0.24 (0.21 to 0.26)
Ages 13 to 18 years				
Subjects taking carbamazepine, phenytoin, phenobarbital, or primidone a	11	- °	- °	1.3
Subjects taking carbamazepine,phenytoin, phenobarbital, or primidone ^a plus valproate	8	-°	- °	0.5
Subjects taking valoroate only	4	c	c	0.3

^aCarbamazepine, phenytoin, phenobarbital, and primidone have been shown to incre the apparent clearance of lamotrigue. Estragen-containing and contraceptives, rifam and the protesse inhibitors bipmark/intoner and attainant/intoner have also been shown to increase the apparent clearance of lamotrigins (see Torny interactions (17)). However, the production of the production of the proper lamost contraction (17). "Parameter not estimated.

Geriatric Patients: The pharmacokinetis: of lamotripine following a single 150-mg dose of lamotripine were evaluated in 12 elderly volunteers between the ages of 65 and 76 years (mean creatinic electrace = 61 mL/mir.). The mean half-file of lamotripine in these subjects was 31.2 hours (range 24.5 to 43.4 hours), and the mean clearance was 24 hours, and the mean clearance was 24 hours, lamotripine in the subjects was 31.2 hours (range 24.5 to 43.4 hours), and the mean clearance was 24 hours, lamotripine possible to 12 mL/mir. (range 20.2 to 1.4 mL/mir.).

Make and Fember Aprilect The Care of Service (1987) and the Ca

Racial or Ethnic Groups: The apparent or al clearance of lamotrigine was 25% lower in non-Caucasians than Caucasians.

13 NONCUMICAL TOXICOLOGY

13.1. Carchingeness, Mutagenesis, Impairment of Fertility
No evidence of carchingenicity was seen in mouse or rat following or all administration of immergine for up to 2 years at does up to 30 mg/kgdby and 10 st 35 mg/kgdby and you mouse and or. respectively. The highest doess tested are less than the human does of Lamortipe was megable in in vite orgene matation (after each mouse impairment in Lamortipe was megable in in vite orgene matation (after each mouse impairment is easy and in clastogenicity (in vitro human lymphocyte and in vito rat bone marrow) easys.

No evidence of impaired fertility was detected in rats given oral doses of lamotrigine up to 20 mg/kg/day. The highest dose tested is less than the human dose of 400 mg/day on a mg/m *Dasis.

14 CLINICAL STUDIES

Monother gov with Lamotrigine in Adults with Partial-Onset Seizures Already Receiving Treatment with Carbamazepine. Phenytoin. Phenobarbital. or Primidone as the Single Antiepleptic Drug

International Authors
The effectiveness of monother gay with horizophe and technique and
the effectiveness of monother gay with horizophe asset activities in a multicrate
double blind chied truit enrolling 156 edit outpatients with partial-enset senterures. The
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The promaps of patients who met escape criteria were 42% (22/76) in the group receiving lemotripie and 69% (55/80) in the valproate group. The difference in the percentage of patients meeting escape criteria was statistically significant (P=0.0012) in favor of lamotripie. No differences in efficacy based on age, sex, or race were detected.

war or amortizme. No differences in efficacy based on age, sex, or rice were detected.

Patients in the control group were infentionally treated with a relatively low dose of directed and the sex of the control group were infentionally treated with a relatively low dose of the sex of selfy of monotherapy with lamothings, and cannot be interpreted to might the superority of lamothings as adjusted to a design and cannot be interpreted to might the superority of lamothings to an adequate dose of visiponate.

The efficiences of harmorization as adjusted, but the print placed Section 1 in the print placed of the placed of the print placed of the print placed of the placed of the print placed of the placed of the

used, which the mean it baseline was 6.4 per week for all patients, enrolled in efficiely tribs.

One trial in ~216) was a double-bird, placebo controlled, prafet trial consists of a street of the controlled of

no direttrick ein ertracky dasse on age, sei, or zeic, is measured by change in securities of deflicts. The traces and humanition is elitablic the faither state final faither liberate state from the deflicts the state of the deflicts the state of the s

Adjunctive Therapy with Lamotrigine in Pediatric and Adult Patients with Lennox-Gastaut Syndrome

enumeron Therapy with Lamptoripins in Pediatric, and André Péderis, with Lamptoripins in Pediatric, and André Péderis, with Lamptoripins and Sparket between projection in the Names-Greated syndrome was established in a multicenter, double-bind, placebo-controlled trails in 169 pederists aged 13 c. 3 years (in = 7 30 methoripins in = 9 50 method; Policinia and with Immortgine or placebo added to their current AEI registered by the projection of the projection

reduction versus 10% increase for immortage and picketo, respectively).

Adjunctes Thereus with Immortagemen Evention and Assign Teachs with Primary Generalized Train. Selection:

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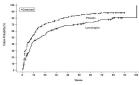
In primary or auus powers based on concombant AEDs.
The primary efficacy endpoint was percentage change from baseline in PGTC seizures.
For the intent-to-treat population, the median percent reduction in PGTC seizures was 60% in potients treated with lamotrigine and 34% on placebo, a difference that was statistically significant (P = 0.006).

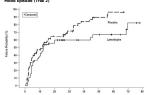
14.2 Bipolar Disorder

14.2 Blooker Blooder
Addisk
The effectiveness of lamortrigine in the maintenance treatment of bipolar idisorder was
established in 2 midstenet, double blook high placebo-controlled trush is adult patterns (aged
18 to 82 years) who met DSM410 crises for bipolar idisorder. That I enrolled patterns
for the place of the

In Trial 1, patients received double blood monotherapy with temocripies 90 mg/day (n = 50), imeorityine 90 mg/day (n = 50), imeorityine 400 mg/day (n = 40), imeorityine 400 mg/day (n = 417), er placebog (n = 1211, imeorityine 200 mg/day (n = 417), er placebog (n = 1211, imeorityine 200 mg/day (n = 417), er placebog (n = 1211, imeorityine 200, imeorityine 400 mg/day (n = 417), er placebog (n = 1211, imeorityine 200, imeorityine 400 mg/day (n = 417), er placebog (n = 417), er pla

higher dosc. In Trial 2, patients received double-blind monotherapy with lamotrigne (100 to 400 mg/ste, n = 39), or placebo in n 70). Lamotrigne was superior to placebo in closelying these boccurrence of a mod explaced five 120. The mean done of bamborigne was superior to placebo in closelying these boccurrence of expension of the control of the con





18 HOW SUPPLIED/STORAGE AND HANDLING
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Lendripter blables (IV. Starter & If or Printers & Mol Taking Carbonacepine, Pheny
Lendripter blables (IV. Starter)
Lendripter blables (IV. Star

69102-137-10

Lamotrigine Tablets. USP Starter KE for Patients Taking Carbamacenine. Phenytoin Phenobarbatal. or Primidione and Not Taking Valorosate (Green KE).

25 mg, white to off white, round shape, flat face beveled edge, uncosted tablets debossed with "45" on one side and break his on other side.

 $100\ mg,$ white to off white, round shape, flat face beveled edge, uncoated tablets debossed with " 1047° on one side and break line on other side.

Blister pack of 84, 25-mg tablets and 14, 100-mg tablets 69102-359-11

Lamotrigine Tablets, USP Starter Kit for Patients Taking Valproate (Blue Kit),

25 mg, white to off white, round shape, flat face beveled edge, uncosted tablets debosed with "45" on one side and break line on other side.

NDC-639-05

Storage
Store at 20 to 25 °C (68 to 77 F); excursions permitted to 15 to 30 °C (59 to 86 F)
[See USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION
Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Bath Pror to initiation of treatment with lamotrigine, inform patients that a rash or other signs or symptoms of hypersensishly (e.g., fever, hymphadenopathy) may herald a serious medical event and struct them to report any such occurrence to their healthcare providers immediately. Hemosphagocytic yumphinistics/stosis.

Introduceous Carlo Terminal Price of Section 1997. In the content of the month of the content of the monthly of the content of the monthly of the content of the monthly of the content of Suicidal Thinking and Behavior

as to an unitron and Behavior inform patient, their carejuers, and families that AEDs, including lemotripine, may increase the risk of sucidal broughts and behavior. Instruct them to be alert for the energence or workering of symptoms of depression, any unusual changes in mode many particular and the properties of the properties of the harm. Instruct them to immediately report behaviors of concern to their healthcare providers.

Worsening of Seizures
Instruct patients to notify their healthcare providers if worsening of seizure control occurs.

Central Nervous System Adverse Effects

Inform patients that montrigine my cause discrines, sommolence, and other symptoms and signs of central nervous system depression. Accordingly, instruct them neither to drive a car not to operate other complex machinery until they have gained sufficient experience on lamostrigine to gauge whether or not it adversely affects their mental enable mother performance.

<u>Pregnancy and Nursing</u>
Instruct patients to notify their heathcare providers if they become pregnant or intend to become pregnant during therapy and if they intend to breastfeed or are breastfeeding an infant.

pressreeging an intain.

Encourage patients to enroll in the NAAED Pregnancy Registry if they become pregnant. This registry is collecting information about the safety of antisplieptic drugs during pregnancy. To enroll, patients can call the toll-free number 1-888-233-2334 [see Use in Specific Populations (8.1)]:

Inform patients who intend to breastfeed that lamotrigine is present in breast milk and advise them to monitor their child for potential adverse effects of this drug. Discuss the benefits and risks of continuing breastfeeding.

Oral Contraceptive Use

Ossi Contractables Use
Instruct comen in certify their healthcare providers if they plan to start or stop use of
oral contractplane or other female hormonal preparations. Starting extrogen containing
extra containing
extra contracting extra contracting extra contracting
increase bearing service of the contraction of

<u>DiscontinuingLamotrigine</u>
Instruct patients to notify their healthcare providers if they stop taking lamotrigine for any reason and not to resume lamotrigine without consulting their healthcare providers

any reason and not to resume lamotrigne without consulting their healthcare providers. Agents Meningial. Agents Meningial. Inform patients that lamotrigine may cause aseptic meningsits, instruct them to notify when the healthcare providers immediately if they develop signs and symptoms of meningsits such as headache, fever, nausea, vomiting, stiff neck, rash, abnormal sensitivity to light, mydgls, chite, contains, or drows insers white lasting lamotrigine.

Torrent PHRRMR

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TORRENT PHARMACEUTICALS LTD., INDIA

Manufactured For:

TORRENT PHARMACEUTICALS LTD., INDIA

Manufactured For:

BORZOOS

May 2021

MEDICATION GUIDE

Medication (Manufactured For:

Manufactured For:

Medication (Manufactured For:

Medication Guide

Lamotrigine (In-MDE-tri-jeen) Tablets, USP

What is the most important information i should know aboutlamotrigine?

Lamotrigine (In-MDE-tri-jeen) Tablets, USP

What is the most important information is should know aboutlamotrigine?

Lamotrigine (In-MDE-tri-jeen) Tablets, USP

There is no way to left a mid rine will become more serious. A perious skin rach that happen at any time during your treatment with

Imagene within the Fatz 1 of a weets of prierient. Children and bereigne signed before the mortigine. In our a higher chance of gutting this serious skin rach while taking lamotrigine.

Memoripies In our a higher chance of gutting this serious skin rach while taking lamotrigine.

- senorgine.

 The risk of getting a serious skin rash is higher if you:

 take lambrigine while taking valproate (DEPAKENE(valproic acid) or DEPAKOTE(dowbproex sodum).

 take a higher starting dose of Bambrigine than your healthcare provider prescribed.

 increase your dose of lambrigine faster than prescribed.
- Call your healthcare provider right away if you have any of the following:

 a skin rash
 blistering or peeling of your skin
 hives
 painful sores in your mouth or around your eyes

- These symptoms may be the first signs of a serious skin reaction. A healthcare rovider should examine you to decide if you should continue taking lamotrigine.

provider visual transmire you specially flow should continue. Laking limitations, 2. Other service securities, linchlaring services blood profolemen or fiver problems. Lamorityine can also cause other types of allergic reactions or services of the continue of the contin

• feel spiritection: A. Like other embigalitytic drupy, lemostrigine may cause suicklad thoughts or actions in a very small number of people, about 1 in 300. Call a healther provider right away if you have any of these symptoms, especially if they are new, worse, or worry your actions to the same of the second of the se

- Owner unususe unarges in pensivor or mood
 Do not stop lumorityine without first talking to a healthcare provider.
 Stopping lamorityine suddenly can cause serious problems.
 Suicidal floughts or actions can be caused by things other than medicines. If you have suicidal thoughts or actions, your healthcare provider may check for other causes.

- tonocc an I watch for early symptoms of suicidal thoughts and actions in which was a suicidal thoughts and actions in Pay attention to any changes, especially sudder changes, in mode, behaviors, thoughts, or feelings.

 Rose all follows unds with your healthcare provider as scheduled.

 Our provider between viols as needed, especially if you are worred about symptoms.

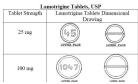
5. Lamotrigine may cause aseptic meningitis, a serious inflammation of the protective membrane that covers the brain and spinal >>>> cord.

Meningits has many causes other than lamotrigine, which your doctor would check for if you developed meningits while taking lamotrigine. As the contribution of the c

6. People prescribed lamotrigine have sometimes been given the wrong medicine because many medicines have names similar to lamotrigine, so always check that you receive lamotrigine.

- Taking the wrong medization can cause serious health problems. When your health care provider gives you a prescription for lamorityine:

 **Media sure you can read & Celary,
 **Sedia sure you can read & Celary,
 **Lost sure you fill your prescription, check the tablets you receive against the pictures of the tablets beginning the pictures of the tablets beginning the pictures of the tablets beginning the pictures of the tablets and the pictures of the tablets you receive against the pictures of the tablets and the pictures of the tablets and the pictures of the tablets you receive against the pictures of the pictures of the tablets you receive against the pictures of the tablets you receive against t



- What is lamotrighe?

 Lamotrighe a prescription medicine to test certain types of setures (partial-created together with other medicines to test certain types of setures (partial-created together with other medicines to test certain types of setures (activate of Lamotro-Castatas syndrome) in people aped 2 years and older.

 Castatas syndrome) proscription and control contro

It is not known if is motivipine is safe or effective in people younger than 18 years with mood episodes such as bipolar disorder or depression.

It is not known if is motivipine is safe or effective when used alone as the first treatment of setures.

Do not take lamotrigine: • if you have had an allergic reaction to lamotrigine or to any of the inactive ingredients in lamotrigine. See the end of this leaflet for a complete list of ingredients in lamotrigine.

- In immortagine. See the errol of this ladder for a complete for the projections in immortagine. See the errol of this ladder for a complete for the projections in immortagine interesting the projection of the programment of the projection of the

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vibamins, and herbal supplements. Lamotripie and certain other medicines may interact with each other. This may cause serious side effects.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

- Krow the malicines, you take Keep a list of them to show your healthcare provider and pharmacest when you got a new medicine.

 How should I takelamorthyine?

 Take harmfurger eastly as prescribed.

 The should be takelamorthyine?

 Take the contrained and the should be taken to be contrained to the should be taken to be contrained to take the should be taken to be contrained to take the should be contrained to take the should be contrained to the sh

- Ismotrigine!"

 Common side effects of ismotrigine include:
 dizmess
 tremor
 headsche
 blarred or double vision
 fever

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088. FDA at 1-800-FDA-1088. How should I storelamotrigine? • Store lamotrigine at 20° to 25°C (66° to 77°F); excursions permitted to 15 (59° to 86°F) [See USF Controlled Room Temperature]. • Keep lamotrigine and all medicines out of the reach of children.

General information about the safe and effective use oflamotrigine.

Medicines are sometimes prescribed for purposes other than those listed in a Medical Guide. Do not use lamotrigine for a condition for which it was not prescribed. Do not

give lamotrigine to other people, even if they have the same symptoms that you have. It may harm them. goe enterrupters come to province, even a trop nate the same symptoms that you have a if you take a united drug screening test. Intendige many make the ster cast possible for another drug. If you require a united drug screening test, let the healthcare professional administrating the last they your set their planetages. Because the state of the that is written for health professionals. For more information, act 1 along 27.19 F1.29.

What are the ingredients infinisheringine? Learneringine flower of the state of the

Torrent PHRRMR

Manufactured by
TORRENT PRARMACEUTICALS LTD., INDIA.
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	HUMAN PRESCRIPTION	N DRUG Rem	Code (Source)	NDC-69102-137
Packaging				
# Item Code	Package t	Description	Marketing Start	Marketing En
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1	1 in 1 BLISTER PACK; Typ Product	pe u: Not a Combination		
Quantity of	Parts			
Part #	Package Quantity		Total Product Qu	aantity
Part 1 Part 2		7 42		
Part 1 of 2				
LAMOTRIC				
lamotrigine tab	IMC			
Product Info				
Route of Admi	nistration ORAL			
Active Ingre	dient/Active Molety			
	Ingredient N	ame	Basis of Str	rength Streng
LAMOTRIGINE (L	NII: U3H2749BKS) (LAMOTE	GINE - UNI: U3H27498KS) LAMOTRIGINE	100 mg
Inactive Ingi	redients			
ACTORE MC	Ingr	edient Name		Strengti
	OYDRATE (UNI: EWQ57QE EARATE (UNI: 70097M6/20)			
CELLULOSE, MH	ROCRYSTALLINE (UNI: O	P1R32D61U)		
	(UNI: U725QW32X) 4 GLYCOLATE TYPE A PO	TATO (UNI: 5056/3G2A2		
Deceluat Cha	racteristics			
			Score	2 pieces
	white (white to off white) ROUND (Round, flat face b	eveled edge)	Size	9mm
Flavor Contains			Imprint Code	1047
Concanna				
Marketing	Information			
Marketing Marketing	Information Application Num	nber or Monograph	Marketing Start	Marketing En
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Marketing Category ANDA Part 2 of 2 LAMOTRIC Lamotrigine tat Product Info Route of Admit Active Ingre- LAMOTRICE (Ingre- LAMOTRICE) POPULO STACE PROJUCT Chac Color Shape Flavor	Application Nur. MONOTIFEE C	ame God - UMU UPG 7490C Sol - UMU UPG 7490C FREDORIU Name 29 FREDORIU NAME 2954(252)	Basis of 5th Basis of 5th	rength Strengti 25 mg Strengti Strengti 2 pieces
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	AMOTRIGI notrigine kit	NE KIT			
P	roduct Info	mation			
Pi	roduct Type	HUMAN PRESCRIPTION DRUG	Item	Code (Source)	NDC:69102-359
P	ackaging				
*	Item Code	Package Description		Marketing Start Date	Marketing End Date
1	NDC:69102-359-	14 in 1 PACKAGE, COMBINATION		08/30/2017	
1		1 in 1 BLISTER PACK; Type 0: Not a Cor Product	nbination		
Q	uantity of P	arts			
	art#	Package Quantity		Total Product Qu	antity
	irt 1	1			
	irt 2		4		

Part 1 of	2					
LAMOTRI	GINE					
lamotrigine tal	DAC					
Product Infe						
Route of Adm	inistration	ORAL				
Active Ingre	dient/Active	Molety edient Name				
LAMOTRIGINE (I	Ingre	edient Name () (LANOTRIGINE - UNI: U3H27498	KS)	Basis of Str LANOTRIGINE	ength	Strengt 100 mg
Inactive Ing	redients	Ingredient Name EW(370(85X) (097MS(30) EE (UNIX OPER(32051U)				Strength
LACTOSE MONO MAGNESIUM ST	DHYDRATE (UNI: 70	EWQ57Q8I5X) 1097M6(30)				
		ME (UNII: OP1R32D51U) 2X) YPE A POTATO (UNII: 5856/3G2				
SODIUM STARC	H GLYCOLATE T	YPE A POTATO (UNI: 5856)3G2	A2)			
Product Cha	racteristics					
Color Shape	ROUND (Round,	off white) flat face beveled edge)		Score Size		2 pieces 9mm
Flavor Contains				Size Imprint Code		1047
Marketing	Informat	tion	h M	bation Sta-4	Mari	kating F=+
Category	ANDA0789	tion Number or Monograp Citation	08/30	Date 2017		Date
Part 2 of						
LAMOTRIC lamotrigine tal	GINE					
Product Infe	ormation					
Route of Adm	inistration	ORAL				
Active Ingre						
	dient/Active	Moiety				
AMOTRICINE :	dient/Active	Molety edient Name	WF)	Basis of Str	ength	Strengt
LAMOTRIGINE (I	Ingre	Molety edient Name () (LANOTRGINE - UNICU31/27498	KS)	Basis of Str	ength	Strengt 25 mg
	Ingre	edient Name () (LANOTRIGINE - UNICU31/27498				
Inactive Ing	Ingre	edient Name () (LAMOTRGINE - UNI: U3H27498 Ingredient Name EWQ57Q8(53))				Strengt 25 mg Strength
Inactive Ing	Ingre- LINE: U3H2749BIS PEDIENTS DHYDRATE (UNI: N EARATE (UNI: N CROCKPUTZSOM)	edient Name () (LAMOTRICINE - UNEU3H27400 Ingredient Name EWQ57(9850) 10077M5130) 6E (UNE 091832061U) 21)				
Inactive Ing	Ingre- LINE: U3H2749BIS PEDIENTS DHYDRATE (UNI: N EARATE (UNI: N CROCKPUTZSOM)	Ingredient Name Ingredient Name EW(57-0655) S00798G(30) EW(197-06550)				
Inactive Ing LACTOSE MONO MAGNESIUM ST CELLULOSE, MI POVIDONE KJO SODIUM STARC	Ingresion to the control of the cont	udient Name) (LANOTRIGNE - UNI: U3I/27460 Ingredient Name EVQ37(855) 99774000) E(UNI: 091802001) YPE A POTATO (UNI: 5854962	A2)			
Inactive Ing LACTOSE MONE MACNESIUM ST CELLULOSE, MI POVIDONE K30 SODIUM STARC Product Cha	Ingresion in the control of the cont	ndient Name) (JANOTRIGINE - UNE USIG 7469 Ingredient Name EWGS70855) 809784009 EWGS708550 209784009 229 229 239 249 A POTATO (UNE: 5954032	A2)			Strength
Inactive Ing LACTOSE MONO MACNISSIUM ST CELLULOSE, MI POVIDONE K30 SODIUM STARC Product Cha Color Shape Flavor	Ingresion in the control of the cont	Indiant Name () (JANOTRICANE - UNE UBIO 7468 Ingredient Name ENGST06853) 800786030 600786030 EQUAL DRIADOS (UNE 5856)32 196 A POTATO (UNE 5856)32	A2)			Strength
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