vvRevised in June 2020 (25th edition) ÿRevised in March 2020

Storage

packaging

ethod: Shade and store at room to

the expiry date indicated on the

Psychoactive antiepileptic drugs

Manic state treatment drugs

Prescription medicines: Caution - Use only as prescribed by a doctor, etc.

classification number 871139, 871179

Japan standard product

カルバマゼピン錠100mg「フジナガ」 カルバマゼピン錠200mg「フジナガ」 カルバマゼピン細粒50%「フジナガ」

Tablet 100mg Tablet 200mg Fine granules 50% Approval number 22700AMX00174 22700AMX00173 22700AMX00175 Listed in drug price June 2015 June 2015 Sales started in June 2015 September 1998 June 1978 Indication added in June 1978 - November 1991 month 1992 February

CARBAMAZEPINE TABLETS. FINE GRANULES "FUJINAGA"

Carbamazepine preparations

[Contraindications] (Do not administer to the

following patients) 1. Patients with a history of hypersensitivity to the components

tricyclic antidepressants 2. Patients with serious blood disorders (as a side effect Blood disorders have been reported and may worsen blood abnormalities. 1

- 3. Patients with second-degree or higher atrioventricular block or severe bradycardia (less than 50 beats/min) [Stimulus conduction may be suppressed and further severe atrioventricular block may
- ÿ occur.] 4. Patients receiving voriconazole, tadalafil (Adcirca), rilpivirine, macitentan, ticagrelor, grazoprevir, elbasvir, daclatasvir/asunaprevir/beclavir, asunaprevir, dolutegravir/rilpivirine, sofosbuvir/velpatasvir, bictegravir/emtricitabine/tenofovir alafenamide [Blood concentrations of these drugs may decrease.]] (See "Interactions" section) 5. Patients with porphyria [Porphyrin synthesis increases and symptoms

The condition may worsen.]

ÿComposition•Characterÿ

1. Composition

Contains the following ingredients in 1 tablet or 1 g of fine

granules.Brand Nam	e Active Ingredients Additi	ves Carbamazepine Tablets
Japanese Pharmacopoeia	Crystalline Cellulose, Hydr	oxy 100mg "Fujinaga" Carbamazepine Propyl
Starch, Hydroxy 100mg Cy	propyl Cellulose, Ste Japa	nese Pharmacopoeia Magnesium phosphate
	Carbama	zepine 200mg Japanese Pharmacopoeia
Carbamazepine	Carbamazepine 500mg	
tablets 200mg "Fujina	ıga"	
Carbamazepine fine		Corn starch, D-mannitol, hypromellose
grain 50% "Fujinaga"		

2. Properties of

the preparation Carbamazepine tablets 100mg "Fujinaga": White plain tablets, Carbamazepine tablets 200mg "Fujinaga": White plain tablets. Carbamazepine fine granules 50% "Fujinaga": White fine granules.

Brand name Identific	ation code		Appearance, etc.	
Carbamazepine tablets 100mg "Fujinaga"	◯ L100	Lioo		
		Weight (mg),	Weight (mg), diameter (mm), thickness (mm)	
		140	8.0	3.1
Carbamazepine tablets 200mg "Fujina	L200 lga"	L200		
		Weight (mg),	Weight (mg), diameter (mm), thickness (mm)	
		280	9.0	4.0

[Efficacy or effect] 1. Psychomotor

seizures, epileptic personality and mental disorders associated with epilepsy, epileptic convulsive seizures: tonic-clonic seizures (generalized convulsive seizures, grand

- 2. Mania, manic state in manic-depressive disorder, excited state in schizophrenia
- 3. Trigeminal neuralgia

[Dosage and dosage] 1.

Psychomotor seizures, epileptic personality and mental disorders associated with epilepsy, epileptic convulsive seizures: For tonic-clonic seizures

seizures, grand mal seizures), carbamazepine is usually administered to adults. Initially, the daily dose is 200 to 400 mg orally administered in 1 to 2 divided doses, and the dose is gradually increased until the optimal effect is achieved (usually 600 mg per day). The dose can be increased to 1,200mg per day depending on symptoms. For children, the usual daily dose is 100 to 600 mg orally administered in divided doses, depending on age and symptoms.

2. In the case of mania, manic depression (manic depression), or excited state (schizophrenia), the optimal effect is obtained by administering carbamazepine orally to adults at an initial daily dose of 200 to 400 mg in 1 to 2 divided doses. Gradually increase the dose up to (usually 600mg per day). The dose can be increased to 1,200mg per day depending on

symptoms. 3. For trigeminal neuralgia

Carbamazepine is usually administered orally to adults at a daily dose of 200 to 400 mg, usually up to 600 mg per day, but the dose can be increased to 800 mg per day depending on symptoms. For children, reduce the dose as appropriate depending on age and symptoms.

[Precautions for use] 1. Careful

administration (Administer carefully to the following patients)

- (1) Patients with heart disease such as heart failure, myocardial infarction, or firstdegree atrioventricular block [stimulus conduction It may inhibit heart function
- (2) Patients who have difficulty urinating or increased intraocular pressure [Since it has anticholinergic effects, symptoms may be worsened.]
- (3) Elderly patients [See section "Administration in the
- Elderly"] (4) Patients with liver or renal impairment [Since metabolic and excretory functions are reduced in these patients, blood concentrations should be monitored. (5) Patients with drug

hypersensitivity (6) Patients

with hypothyroidism [There are reports that it reduces thyroid hormone concentration.]

(1)) Rapid reduction in

dosage or discontinuation of administration during prolonged use may cause status epilepticus, so when discontinuing administration, be careful, such as by gradually reducing the dose. Please be especially careful if you are elderly or

It is recommended to periodically conduct liver/kidney function and blood tests during prolonged use.

Delicious

(3) As drowsiness and a decrease in alertness, concentration, and reflex movement ability may occur, patients receiving this drug should be careful not to engage in dangerous activities such as driving a car . (4) When used to treat the excited state of schizophrenia, it should be used when antipsychotic drugs are not sufficiently effective. (5) Seizures may be exacerbated or induced by administration

of antiepileptic drugs. When administering this drug to patients with mixed seizure type or small seizures for which this drug is considered ineffective (absence seizures, atypical absence seizures, atonic seizures, myoclonic seizures), pay attention to the condition and prevent seizures. If symptoms worsen or are induced, gradually reduce the dose of this drug and discontinue it.

Machine Translated by Google

(6) Symptoms such as drowsiness, nausea/vomiting, dizziness, double vision, and ataxia are often signs of overdosage, so if such symptoms occur, gradually reduce the dose to the optimum effective dose. Lose weight. It is particularly common in the early stages of administration, so it is desirable to start administration at a lower dose.

3. Interactions

Although interactions of this drug with many drugs have been reported, not all possible combinations have been investigated, so it may not be possible to use this drug in combination with other drugs, or to use this drug in combination with other drugs. Be careful when discontinuing the drug. In particular, the main metabolic enzyme of this drug is cytochrome P450 3A4, and it also induces metabolic enzymes including cytochrome P450 3A4, so it should not be used in combination with drugs that affect these activities or are metabolized by them. If so, measure the blood drug concentration and observe clinical symptoms as much as possible, and administer

with care, paying attention to the dose. In addition, the enzyme involved in the metabolism of carbamazepine-10,11-epoxide, the main metabolite of carbamazepine, is epoxide hydrolase, and when used together with drugs that inhibit this enzyme, carbamazepine-10,11 -Since the blood concentration of epoxide may increase, clinical symptoms should be observed as much as possible and the dose should be carefully

administered. (1) Concomitant use contraindications (do not use together)

201111	. ,		one (ao not aco togothe		
	Drug name, etc. Clinical symptoms/measures Mechanism/risk factors				
	Voriconazole (Vifend)	There is a risk that the blood	This drug's hepatic drug-		
	Tadalafil (Adcirca)	concentration of these drugs will	metabolizing enzyme-		
	Rilpivirine (Ejurant)	decrease and their effects will be	inducing effect accelerates		
	Macitentan	weakened.	the metabolism of these drugs.		
	(Opsumit)				
	Ticagrelor (Brilinta)				
ÿ	Grazoprevir				
	(Gradyna) Elbasvir				
ÿ	(Elersa)				
	Daclatasvir /				
ÿ	Asunaprevir/				
	Beclabvir				
ÿ	(Zimency				
	combination				
ÿ	tablets)) Asunaprevir				
	(Sunvepra)				
	Dolutegravir/				
	Rilpivirine (Jalka				
	Combination				
ÿ	Tablets) Sofosbuvir/				
	Velpatasvir				
ÿ	(Epclusa Combination				
	Tablets)				
ÿ			Due to the inducing effects		
			of this drug on P-gp and		
			metabolic enzymes, the		
			plasma concentrations of		
			these drugs may		
ÿ	Bictegravir Emtrici	decrease. The plasma concen	tration of Namide is due to the		
,	Tabin Tenofo Vir	P-gp and metabolic enzyme in			
	Alafenamide (Bictarvy	and this drug. This decreases			
	combination tablets)	effectiveness of this drug			
	,	and may lead to the			
		development of resistance			
		to this drug.			
	17				

(2) Caution when used together (Be careful when using together)

Drug name, etc. C	linical symptoms/measures M	echanism/risk factors
MAO inhibitors may cau	se symptoms such as sweating, restlessness, general convulsions, abnormally high fever, and cor	This drug has a similar structure to tricyclic antidepressants, so similar naymptoms may occur.
There have been reports of	psychoneurological symptoms (confusion, gross tremor, disorientation, etc.) occurring with lithium carbonate .	Although the exact mechanism is unknown, it is thought that the additive effects of both drugs on sodium metabolism and nerve conduction velocity may be related.

There have been reports t	hat neurological symptoms	Mechanism unknown	
	(gait disturbance, ataxia,		
	nystagmus, diplopia,		
	hyperreflexia in the lower		
limbs) have appeared with	metoclopramide . There is a	Both drugs have central	
	possibility that the interaction	nervous system depressant effe	cts.
	with alcohol may be enhanced.		
	Avoid excessive alcohol consum	iption.	
central nervous system depressant	Mutual effects may be		
Haloperidol Thioridazine	enhanced.		
	9 ·		
Diuretics (sodium-	Hyponatremia/	Both may lower serum	
losing)	SIADH may appear. Consider using diuretics other than	sodium.	
	sodium-wasting diuretics.		
	Isoniazid May enhance the		
hepatotoxicity of isoniazio	Additionally the blood	The hepatic drug-metabolizing	
Tiepatotoxicity of isofilazi	concentration of this drug	enzyme-inducing effect of	
	may rise rapidly, and	this drug increases the	
	symptoms of toxicity	metabolism of isoniazid,	
	(drowsiness, nausea/	promoting the production of	
	vomiting, dizziness, etc.)	isoniazid metabolites that	
	may occur.	are hepatotoxic. Additionally,	
		isoniazid inhibits the	
		metabolism of this drug.	
Fluvoxamine	The blood concentration of	These drugs inhibit the	
Verapamil Diltiazem	this drug may rise rapidly, and	metabolism of this drug.	
Cimetidine	symptoms of toxicity (drowsiness, nausea/vomiting,		
Omeprazole	dizziness, etc.) may occur.		
Danazol			
Bicalutamide			
Quinupristin/			
Dalfopristin Macrolide			
antibiotics			
Erythromycin ,			
Clarithromycin, etc.			
Ritonavir			
Darunavir			
Azole			
antifungal agents			
Miconazole,			
Fluconazole, etc.			
Ciprofloxacin			
Acetazolamide		Mechanism unknown	
	ncentration of quetiapine may	The metabolism of quetiapine	
Quetiapine The blood of	decrease. Additionally, the	is promoted by the hepatic	
	blood concentration of this	drug-metabolizing enzyme-	
	drug's metabolites may	inducing effect of this drug.	
	increase.	Additionally, quetiapine	
		inhibits the metabolism of	
		this drug's	
itraconazole telaprevir	Blood levels of these drugs	metabolites. This drug's	
	may decrease. Additionally,	hepatic drug-metabolizing	
	the blood concentration of	enzyme-inducing effect	
	this drug may increase.	of these drugs. Additionally,	
		these drugs inhibit the metabol	ism of this dru
clobazam	Blood levels of those drugs	-	
paroxetine	Blood levels of these drugs may decrease. Additionally,	This drug's hepatic drug- metabolizing enzyme-inducing	
paroxouno	the blood concentration of	effect accelerates the metabolism	
	this drug may increase.	of these drugs. Furthermore, the	
		mechanism by which the blood	
		concentration of this drug increases	
		due to concomitant use is unknown.	
Phenobarbital	The blood concentration of	The metabolism of this drug	
	this drug may decrease.	is accelerated by the hepatic	
Rifampicin		drug-metabolizing enzyme-	
		inducing effects	
The blood concentration	of phenytoin may decrease.	of these drugs. Both drugs	
	It may also increase or	have hepatic drug-metabolizing	
	decrease the blood	enzyme-inducing effects, so	
	concentration of phenytoin.	they mutually promote metabolism. Additionally,	
		phenytoin metabolism is	
		inhibited due to metabolic comp	etition.
(0)	L.		

Valproic acid May decre	ase the blood concentration	The metabolism of valproic acid is
	of valproic acid. Additionally,	promoted by the hepatic drug-
	the blood concentration of	metabolizing enzyme-inducing
	this drug and its metabolites	effect of this drug. Additionally,
	may increase or the blood	valproic acid inhibits the metabolism
	concentration of this drug	of this drug's metabolites. There
	may decrease.	are reports that the blood
		concentration of this drug increases
		or decreases when used in
		combination with valproic acid, but the mechanism is unknown.
Blood concentrations of	primidone and primidone may	Metabolism is thought to be
	decrease. Additionally, the	mutually promoted by the
	blood concentration of this	hepatic drug-metabolizing
	drug's metabolites may	enzyme-inducing effects of
	increase.	both drugs. Primidone also
		inhibits the metabolism of
		this drug's metabolites.
Blood concentrations of	efavirenz may decrease.	Metabolism is thought to be
		mutually promoted by the
		hepatic drug-metabolizing
		enzyme-inducing effects of both d
Theophylline		This drug promotes theophylline
aminophylline hydrate		metabolism by inducing hepatic
		drug-metabolizing enzymes.
		Furthermore, the mechanism by
		which the blood concentration of
		this drug decreases due to
		concomitant use
Anti-anxiety/sleep-	It may reduce the effects of	is unknown. The metabolism of
la decelar	these drugs.	these drugs is promoted by the
inducing agent		hepatic drug-metabolizing enzyme-
Alprazolam		inducing effect of this drug.
Midazolam		
Antiepileptic		
agent Zonisamide		
Clonazepam Ethosuximide		
Topiramate Perampar	ما	
Tramadol	ici	
Buprenorphine Anti-		
parkinsonian drug *		
adefi Lin Butyrophenone		
drug		
Tricyclic		
antidepressants		
such as haloperidol		
Imipramine,		
amitriptyline,		
nortriptyline, etc.		
Trazodone		
Mianserine		
Sertraline		
Mirtazapine		
Neuropsychiatric		
drug Olanzapine		
Aripiprazole		
Risperidone		
Blonanserin		
Clozonina		
Clozapine		
Paliperidone		
Donepezil Flecainide Eletri		
Putan Dibydropyridine		
Dihydropyridine calcium antagonists		
such as nifedipine,		
felodipine, nilvadipine,		
, miradipine,		
etc. Ondansetron		
Corticosteroids		
such as prednisolone		
such as prednisolone dexamethasone, etc.		
•		
dexamethasone, etc.		
dexamethasone, etc.		
dexamethasone, etc. Luteal and follicular hormones such as		
dexamethasone, etc. Luteal and follicular hormones such as	There is a risk of decreased	
dexamethasone, etc. Luteal and follicular hormones such as drospirenone, ethinyl	There is a risk of decreased efficacy and increased	
dexamethasone, etc. Luteal and follicular hormones such as drospirenone, ethinyl		
dexamethasone, etc. Luteal and follicular hormones such as drospirenone, ethinyl	efficacy and increased	
dexamethasone, etc. Luteal and follicular hormones such as drospirenone, ethinyl	efficacy and increased incidence of abnormal	

	solifenacin coumarin anticoagulan	It may reduce the effects of	The metabolism of these drugs is promoted by the hepatic drug-
	warfarin	Ü	metabolizing enzyme-inducing effect of this drug.
ÿ ÿ ÿ ÿ	warfarin immunosuppressant cyclosporin tacrolimus everolimus antineoplastic agent irinotecan imatinib gefitinib sorafenib sunitinib dasatinib nilotinib lapatinib toremifene tamibarotene temsirolimus axitinib ceritinib osimertinib palbocicilib ibrutinib po natinib		
ÿ	Anti-cancer agent lenvatinib		Due to the inducing effect of this drug on P-gp and metabolic enzymes, the blood concentration of lenvatinib may decrease.
ÿ	Doxycycline Antiviral agents (HIV infection treatment drugs) Saquinavir, indinavir, nelfinavir, lopinavir, dolutegravir, abacavir, lamivudine, etc. Maraviroc Delavirdine Etravirine Praziquantel Eplerenone Sildenafil Tadalafil (Cialis) Dienogest Aprepitant Rivaroxaban Simvastatin		The metabolism of these drugs is promoted by the hepatic drugmetabolizing enzyme-inducing effect of this drug.
	fosaprepitan tomeglumine Nondepolarizing muscle relaxants		The hepatic drug-metabolizing enzyme-inducing effect of this drug promotes the metabolism of aprepitant, the active substance of fosaprepitant meglumine, and lowers its blood concentration.
	Pancuronium, Digoxin, Albendazole	The effect of this days way	
ÿ	Hydroxychloroquine	The effect of this drug may be reduced.	
	Mirabegron The action	of mirabegron may be attenuated.	The hepatic drug-metabolizing enzyme inducing effect and P-glycoprotein inducing effect of this drug accelerates the metabolism of mirabegron and lowers its blood concentration.
	Cyclophosphamide	May enhance the effects of cyclophosphamide.	The concentration of active metabolites of cyclophosphamide increases due to the hepatic drug-metabolizing enzyme-inducing effect of this drug.
	Caspofungin Blood conc	entration of caspofungin may decrease.	This drug affects the uptake and transport process of caspofungin, leading to the induction of caspofungin clearance.

	nMay reduce the effect of acetaminophen. There are also reports that it increases the likelihoo	reducing its blood concentration. It also accelerates the metabolism of acetaminophen to N- acetyl-p-benzoquinoneit	nine, wl	nich is he
Lamotrigine Ma	ay decrease the blood concentration of lamotrigine.	Glucuronidation of lamotrigine in the liver is promoted.		
dabigatran etexilate	It may reduce the effect of dabigatran.	Due to the P-glycoproteir inducing effect of this drug, the blood concentration of dabigatran may decreas		
St. John's Wort (St. John's Wort)- containing foo	Be careful not to ingest foods containing St. John's wort when administering this drug, as the disetabolism of this drug may be accelerated and	It is thought that St. John's wort induces hepatic drug metabolism enzymes.		
grapefruit juice	the blood concentration may decrease. Be careful not to ingest grapefruit juice when administering this drug, as the metabolism of this drug may be suppresse	It is thought that the ingredients contained in grapefruit juice inhibit enzymes that metabolize this drug in the small intestine.	ation m	ay increa

4. Side

effects: No studies have been conducted on this drug to clarify the frequency of side effects, such as use

results surveys. (1)

Serious side effects 1) Aplastic anemia, pancytopenia, leukopenia, agranulocytosis, anemia, hemolytic anemia, erythroblastic aplasia, thrombocytopenia (incidence unknown): Serious blood disorders. Patients should be carefully monitored by regularly conducting blood tests, and if any abnormalities are observed, administration should be discontinued and appropriate measures should be taken.

2) Toxic Epidermal Necrolysis *

Necrolysis (TEN), mucocutaneous oculomucocutaneous syndrome (Stevens Johnson syndrome), erythema multiforme, acute generalized rash, pustulosis, erythroderma (exfoliative dermatitis) (incidence unknown): Severe skin symptoms may appear. Therefore, the patient should be carefully observed for symptoms such as fever, red eyes, swelling of the face, erosion of the lips, oral mucosa, and genitals, blisters on the skin and mucous membranes, numerous small pustules, erythema, sore throat, itching, and general malaise. If any abnormalities are observed, administration should be discontinued immediately and appropriate measures should be taken. Furthermore, since most of these symptoms develop within 3 months of starting administration

- of this drug, patients should be carefully monitored, especially during the early stages of administration. 3) SLE-like symptoms (incidence unknown): SLE-like symptoms (skin symptoms such as butterfly erythema, fever, arthralgia, white blood cell count, thrombocytopenia, antinuclear antibody positivity, etc.) may occur, so careful observation is required. If
- any abnormalities are observed, administration should be discontinued and appropriate measures should be taken. 4) Hypersensitivity syndrome (incidence unknown): Fever and rash are seen as initial symptoms, followed by lymphadenopathy, arthralgia, increased white blood cells, increased eosinophilia, appearance of atypical lymphocytes, hepatosplenomegaly, and liver dysfunction. Delayed and serious hypersensitivity symptoms may occur, accompanied by organ damage. Also, be aware that symptoms such as rash, fever, and liver dysfunction may flare up or become prolonged. Furthermore it is often accompanied by reactivation of viruses such as human

5) Hepatic dysfunction, jaundice (incidence unknown): Cholestatic, hepatocellular, mixed, or granulomatous liver dysfunction and jaundice may occur, which may lead to fulminant hepatitis, etc., so Patients should be carefully monitored, including liver function tests. If any abnormalities are observed, administration should be discontinued and appropriate measures should be taken. 6) Acute kidney injury (interstitial nephritis, etc.) (incidence unknown):

Severe * serious kidney injury may occur, so monitor the patient thoroughly by regularly conducting kidney function tests, and check if any epatotoxic.

abnormalities are detected. If this occurs, discontinue administration and take appropriate measures. 7) PIE

- syndrome, interstitial pneumonia (incidence unknown): PIE
 syndrome and interstitial pneumonia accompanied by fever, cough,
 dyspnea, sputum, eosinophilia, and infiltrative shadows in the lung
 fields may occur. If such symptoms occur, discontinue administration
 and take appropriate measures. 8) Thromboembolism (incidence
- Thromboembolism such as pulmonary embolism, deep vein thrombosis, and thrombophlebitis may occur, so carefully observe the patient and take appropriate action if any abnormalities are observed.

 Discontinue administration and take appropriate measures. 9)

 Anaphylaxis (incidence
- unknown): Anaphylaxis accompanied by hives, angioedema, circulatory failure, hypotension, difficulty breathing, etc. may occur. If such symptoms occur, administration should be discontinued. Appropriate measures should be taken. 10) Congestive heart failure, atrioventricular block, sinus insufficiency, bradycardia
- (incidence unknown): Congestive heart failure, atrioventricular block, sinus insufficiency, bradycardia may occur, so carefully monitor the patient and check for abnormalities. If this is observed, administration should be discontinued and appropriate measures should be taken.
 - 11) Syndrome of inappropriate secretion of antidiuretic hormone
- (SIADH) (incidence unknown): Inappropriate secretion of antidiuretic hormone accompanied by hyponatremia, hypoosmolarity, increased urinary sodium excretion, hypertonic urine, convulsions, disturbance of consciousness, etc. If such symptoms occur, administration should be discontinued and appropriate measures such as restricting fluid intake should be taken. 12) Aseptic meningitis (incidence unknown): Aseptic meningitis may occur with nuchal stiffness, fever, headache, nausea/vomitino, or
- clouded consciousness, so if such symptoms occur, If so, administration should be discontinued and appropriate measures should be taken.

 13) Malignant syndrome (incidence unknown): Administration of this drug may cause fever, impaired consciousness, akinesia, severe muscle stiffness. difficulty swallowing.
- tachycardia, fluctuations in blood pressure, sweating, etc. In such cases, administration should be discontinued and appropriate measures should be taken along with systemic management such as body cooling and hydration. This may occur if the drug is suddenly discontinued, so do not suddenly stop administering this drug. In addition, special care should be taken as malignant syndrome is more likely to occur during concomitant use with antipsychotics. Furthermore, at the onset of this disease, an increase in white blood cells and serum CK (CPK) is often observed, and a decline in renal function accompanied by myoglobinuria may be observed. (2) Other side effects

Hypersensitivity note 1)			
, measles-like rash, poison eruption-like rash,			
photosensitivity, vasculitis, angioedema, pruritus,			
urticaria, dyspnea, flushing, pigmentation, acne,			
papules, polymorphism			
Erythema nodosum, purpura, hirsutism, lichenoid			
keratosis, nail disorders (onycholysis, nail			
deformation, nail discoloration, etc.)			
scle spasms, muscle weakness, joint pain,			
muscle pain			

herpesvirus 6 (HHV-6). If such symptoms occur, administration should be discontinued and appropriate measures should be taken.

Blood Note 1)	Porphyria, megaloblastic anemia, leukocytosis,	
	eosinophilia, reticulocytosis, lymphadenopathy	
Liver Note 1)	Increased AST (GOT), increased ALT (GPT),	
	increased Al-P, increased ÿ-GTP Proteinuria,	
	increased	
kidney	BUN, increased creatinine, oliguria, urinary	
	retention, frequent urination, hematuria	
Decreased mental and	d nervous system attention/concentration/reflex	
	motor ability, etc., lightheadedness, depression,	
	headache/dull head, weakness, fatigue, excitement,	
	ataxia, involuntary movements (tremor, asterixis,	
	etc.), speech disorders, Confusion, drowsiness,	
	dizziness, hallucinations (visual, auditory), light-	
	headedness, delirium, paresthesia, impotence,	
	peripheral neuritis, orofacial dyskinesia, chorea	
	athetosis, paralytic symptoms, aggressive	
	behavior, agitation, disturbance of consciousness,	
	Sedation, memory impairment Double vision,	
Eye Note 2)	blurred vision, accommodative disorders,	
Lyc role 2)	nystagmus, abnormal eye movements (eye	
	rotation attacks), lens opacity, conjunctivitis,	
ingrand introdular		
increased intraocular p	ressure, decreased cardiovascular blood pressure, increased blood pressure, arrhythmia, impulse cond	uction disorders
		uction disorders
Gastrointestinal anor	exia, nausea/vomiting, constipation, diarrhea, dry	
	mouth, pancreatitis Note 1), stomatitis, glossitis,	
	abdominal pain, colitis Vitamin	
Department of Endocrinology and	D/calcium metabolism abnormalities (lower serum	
Metabolism	calcium, etc.), thyroid function test values	
	Abnormalities (low T4 level, etc.), low serum folate	
	level, gynecomastia, galactorrhea, increased prolactin, hyponatremia, osteomalacia,	
	osteoporosis, hyperglycemia	
	osteopolosis, hypergrycenia	
Other symptoms inclu	de fever, taste abnormalities, hearing abnormalities	
	(tinnitus, hyperacusis, hearing loss, changes in	
	pitch, etc.), hair loss, edema, sweating, increased	
	cholesterol, increased CK (CPK) levels, increased	
	triglycerides, fluid retention, and immunoglobulin.	
	decrease (IgA,	
	decrease (IgA, IgG, etc.), weight gain, CRP rise, cold symptoms (nasopharyngitis, cough, etc.)	

Note 1) Administration should be

discontinued. Note 2) It is desirable to conduct visual acuity tests

regularly. 5. Administration to the elderly

Take precautions such as reducing weight [Physiological functions generally decline in the elderly.] (See section `Important basic notes").

6. Administration to pregnant women, parturient

women, lactating women, etc. (1) The drug should be administered to pregnant women or women who may be pregnant only when the therapeutic benefits are judged to outweigh the risks. If it is unavoidable to administer this drug during pregnancy, it is desirable to avoid concomitant use with other antiepileptic drugs as much as possible. Epidemiological research reports indicate that there are many cases of children giving birth to children with abnormalities (including those in the vertebrae) or children with developmental disabilities. Additionally, compared to administering this drug alone, the combination of this drug and other antiepileptic drugs (particularly sodium valproate) may result in more babies being born with malformations such as cleft palate, cleft lip, and ventricular septal defect. There are epidemiological investigation reports. There have also been reports of hypospadias.].

(2) It has been reported that if this drug is used in combination with this drug or other antiepileptic drugs before delivery, withdrawal symptoms (convulsions, breathing problems, vomiting, diarrhea, eating disorders, etc.) may occur in the newborn after delivery.

be. (3) Administration during pregnancy may cause bleeding tendency in newborns.

(4) There are reports that

administration during pregnancy causes a decrease in folic acid.

(5) It should be administered to lactating women only when the therapeutic benefits are judged to outweigh the risks [It has been reported that it passes into hreast milk 1

7. Overdose1) (1)

Symptoms: The first signs and symptoms usually appear 1 to 3 hours after taking the drug (see `Important Precautions' section). Central nervous system disorders (tremors, excitement, convulsions, disturbances of consciousness, coma, electroencephalogram changes, etc.) are the most obvious, and cardiovascular disorders (blood pressure changes, electrocardiogram changes, etc.) are usually mild. Additionally, rhabdomyolysis may

occur. (2) Treatment: No specific antidote is known. Typically, the following actions are taken: - Emesis, aspiration of gastric

contents, gastric lavage, hemodialysis. Administer activated charcoal if necessary.*Secure the airway.

Endotracheal intubation, artificial respiration, and oxygen inhalation as necessary.

Elevate both legs and administer plasma volume expanders for hypotension.

Administer vasopressors as necessary. - Inject

diazepam intravenously for convulsions (however, be careful of respiratory depression, hypotension, and worsening of coma due to diazepam). After taking appropriate measures, continue to monitor breathing, cardiac function, blood pressure, body temperature, etc. for several

days. 8. Precautions for

application When delivering the drug: Instruct patients to take the PTP packaged drug out of the PTP sheet before taking it. (If the PTP sheet is swallowed accidentally, the hard sharp edges may penetrate the esophageal mucosa and even cause perforation. It has been reported that this can cause serious complications such as mediastinal sinusitis.) 9.

Other precautions (1)

When switching to another antiepileptic drug, it is usually recommended to use diazepam or a barbiturate compound in combination to prevent exacerbation.

(2) It has been reported that in experiments in which carbamazepine was orally administered to rats over a long period of time (25, 75, and 250 mg/kg for 2 years), the occurrence of liver tumors in females was significantly observed in a dose-dependent manner. (3) Abnormalities in serum immunoglobulin (IgA, IgG, etc.)

may occur. (4) There are reports of male fertility impairment and abnormal spermatogenesis. (5) There

have been reports of cross-sensitivity (skin hypersensitivity including hypersensitivity syndrome) occurring between this drug and other antiepileptic drugs (phenytoin, phenobarbital). (6) In a retrospective genome-wide association analysis in Japanese subjects, HLA-A It has been reported that 58% (45/77) were carriers of 3101, and 13% (54/420) were carriers of HLA-A*3101 in the group that did not develop severe drug eruption. Furthermore, the frequency of the HLA-A*3101 allele is reported to be 0.071-0.120 in Japanese people. In a study on patients of Han-Chinese ancestry, almost all of the cases of oculomucocutaneous syndrome and toxic epidermal necrolysis caused by this drug were HLA-B*1502 carriers. There are reports that there was. On

the other hand, studies in Japanese subjects have not suggested a clear relationship between cases of severe drug eruption caused by this drug and HLA-B*1502 possession . It has been reported that the frequency of the HLA-B*1502

allele is 0.019-0.124 in Han Chinese and 0.001 in Japanese. (7) The results of 199 placebo-controlled clinical trials of multiple antiepileptic drugs, including this drug, conducted overseas for epilepsy, psychiatric disorders, etc., show that the risk of suicidal thoughts and attempts is Approximately twice as high in the antiepileptic drug group compared to the placebo group (antiepileptic drug group: 0.43%, placebo group: 0.24%);

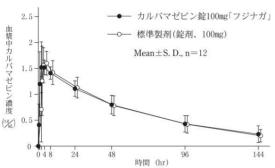
(95% confidence interval: 0.6-3.9). It was also calculated that in the subgroup of epilepsy patients, there were 2.4 more patients per 1000 compared to the placebo group.

[Drug kinetics] 1. Bioequivalence

mg of carbamazepine) of carbamazepine tablets 100 mg "Fujinaga" and the standard preparation were administered to 12 healthy adult males once on an empty stomach using a crossover method. The bioequivalence of both drugs was confirmed as a result of oral administration, measurement of plasma concentrations, and statistical analysis of the obtained pharmacokinetic parameters.

	AUCÿ0-144hrÿ ÿhr•ÿg/mLÿ	Cmax ÿÿg/mLÿ	Tmax ÿhrÿ	T1/2 ÿhrÿ
Carbamazepine tablet 100mg "Fujinaga"	98.9±21.2 1.7	2±0.18 2.3±2.0 5	1.9±17.0	
standard formulation (tablet, 100		8±0.29 2.6±1.3 4	9.6±13.4	

ÿMean±S.D.,nÿ12ÿ



Plasma concentrations and parameters such as AUC and Cmax may vary depending on test conditions such as subject selection and number and time of body fluid collection. 2.

Effective blood

concentration3) The effective blood carbamazepine concentration is said to be 4 to 12 ÿg/mL (for

epilepsy). 3.

Dissolution behavior 4) Carbamazepine tablets 100 mg "Fujinaga", carbamazepine tablets 200 mg "Fujinaga" and carbamazepine fine granules 50% "Fujinaga" are carbamazepine tablets and carbamazepine fine grains specified in Part 3 of the Japanese Pharmacopoeia Non-Japanese Pharmaceutical Standards. It has been confirmed that it complies with the grain elution standards. Nihonbashi, Chuo-ku, Tokyo

[Drug efficacy/pharmacology] 1.

Anticonvulsant action5)

Carbamazepine exhibits almost the same suppressive effect as phenobarbital on electric shock convulsions in rats, and has a sufficient suppressive effect on strychnine convulsions in mice. However, carbamazepine 100 mg/kg (orally) clearly delays the onset of convulsions compared to phenytoin and mephenesin. 2. Antiexcitatory effects 5-7) In behavioral pharmacological tests using mice, carbamazepine exhibits effects of suppressing combative

behavior, suppressing

stereotypic behavior, and enhancing anesthesia. In electrophysiological tests using rabbits, carbamazepine has been shown to suppress evoked potentials in the emotional pathway from the olfactory bulb to the limbic system (olfactory bulb-amygdaloid nucleus, olfactory bulb-hippocampus). 3. Effect on trigeminal neuralgia8)

Carbamazepine prolongs the latency of the trigeminospinal tract response to electrical stimulation of the maxillary nerve in cats.

[Physical and chemical knowledge regarding active ingredients]

Common name: Carbamazepine Chemical name: 5H-Dibenzolb flazepine-5-carboxamide Molecular formula: C15H12N2O Molecular weight: 236.27 Structural formula

Appearance: White to slightly yellowish white powder, odorless and tasteless at first, but then slightly bitter. Easily

> soluble in chloroform, slightly soluble in ethanol (95) or acetone, very sparingly soluble in water or diethyl ether. Melting point: 189-193ÿ

[Handling Precautions]

Stability test 9)

Carbamazepine tablets 100mg "Fujinaga" (PTP): The results of a long-term storage test (room temperature, 3 years) using the final packaged product showed that it was within the specification range and was stable for 3 years under normal marke

distribution. It was confirmed that there is. Carbamazepine tablets 100mg "Fujinaga" (plastic bottle): As a result of a relative comparison test using the final packaged product (40ÿ, relative humidity 75%, 6 months), it is estimated that it is stable for 3 years under normal

market distribution. It was done. Carbamazepine Tablets 200mg "Fujinaga" (PTP): The results of a long-term storage test (room temperature, 5 years) using the final packaged product confirmed that it was within the specifications and stable for 5

vears under normal market distribution. Ta. Carbamazenine tablets 200mg "Fujinaga" (plastic bottle): As a result of a relative comparison test using the final packaged product (40%. relative humidity 75%, 6 months), it is estimated that it is stable for 5 years under normal

market distribution. It was done. Carbamazepine fine granules 50% "Fujinaga": This drug is estimated to be stable for 5 years under normal market distribution as a result of a relative comparison test (40ÿ, 75% relative humidity, 6 months) at the time of formulation change. It was done.

[Packaging] Carbamazepine tablets

100 mg "Fujinaga" 100 tablets (PTP) 1,000 tablets (PTP) 500 tablets (plastic bottle) Carbamazepine tablets 200 mg

"Fujinaga" 100 tablets (PTP) 1,000 tablets (PTP) 500 tablets (plastic bottle) 500g

Carbamazepine fine granules 50% "Fujinaga" 100g

[Major

documents] 1) JPDI 2011 Japanese Pharmacopoeia Drug Information Jiho 2011;

472-479 2) Fujinaga Pharmaceutical internal materials: Materials

regarding bioequivalence 3) Tatsuji Iga et al.: Practical TDM for drug administration design Drugs Gyojihosha

1993; 126-149 4) Fujinaga Pharmaceutical internal

materials: Materials related to dissolution 5) Theobald W. et al.: Arzneimittelforschung 1963:

13 (2): 122-125 6) Kenzo Nakao et al.: Pharmacology and treatment 1988;

16 (3): 1189-1190 7) Kenzo Nakao et al.: Pharmacology and Treatment

1988; 16 (3): 1191-1206 8) Fromm GH, et al.: Neurology 1967; 17:

275-280 9) Fujinaga Pharmaceutical internal materials: Stability documentation

[Request for literature/Inquiry for product

information] ÿÿ Please contact the following for in-house materials listed in the main literature.

Fujinaga Pharmaceutical Co., Ltd. Medicine

Counseling Office Front Place Nihonbashi, 2-14-1

103-0027 TEL: 03-6327-2478

FAX: 03-6327-2479

製造販売元



藤永製薬株式会社 東京都中央区日本橋 2-14-1

販売元



東京都中央区日本橋本町3-5-1