■Cases where haermorrhages and abnormalities on tests of hemostasis associated with concomitant use of igratimod with warfarin were observed.

Case No.	Sex	Age	Adverse reactions	Seriousness	Daily dose	Latency time to onset of adverse reactions	Treatment by the drug	Outcome
1	Female	70's	Increased PT-INR Pulmonary alveolar haermorrhage	serious	50mg	12 days 41days	discontinuation	Recovery Death
2	Female	60's	Faecal occult blood positive Gingival bleeding Subcutaneous bleeding Anaemia	serious	25mg	23 days 12 days 14 days 23 days	discontinuation	Unknown Recovery Recovery Recovery
3	Male	80's	Puncture site haemorrhage Conjunctival haemorrhage	serious	25mg	29 days 29 days	discontinuation	Recovery Recovery
4	Female	70's	Increased PT-INR	Non-serious	25mg	28days	discontinuation	Unknown
5	Female	70's	Increased PT-INR	Non-serious	25mg	28days	continuation	Recovery
6	Female	60's	Increased PT-INR	Non-serious	25mg	unknown	unknown	Unknown
7	Female	50's	Increased PT-INR	Non-serious	25mg	14days	continuation	Recovery
8	Female	60's	Subcutaneous bleeding	Non-serious	50mg	109days	discontinuation	Recovery
9	Male	60's	Haematoma	Non-serious	25mg	15days	discontinuation	Recovery

■Case summaries

<Case1>

	Patient	Daily dose/			
Sex/	Reason for use	Treatment		Clinical course and therapeutic measures	Outcome
age	(complications)	duration			
	Rheumatoid	25mg			
Female	arthritis	31days			
•	(Atrial	50mg	Adverse reactions:	Increased PT-INR	Decovery
70's	fibrillation)	10days		Pulmonary alveolar haermorrhage	Recovery Death
	(Interstitial			·	Deali

· · · · · · · · · · · · · · · · · · ·		
pneumonia) (Bronchitis chronic)	16 years before administration	Rheumatoid arthritis (RA) developed.
(Insomnia) (Depression) (Osteoporosis)	6years before administration	Administration of warfarin potassium (3mg/day) was started.
(Renal impairment)	6days before administration	The laboratory result showed PT-INR 1.34 due to administration of warfarin potassium (2.5mg/day).
	Start date of administration	The dose of igratimod (25mg/day) was added because treatment with salazosulfapyridine, tacrolimus hydrate, and prednisolone could not control RA.
	Day 2 of administration	PT-INR 1.35
	Day 12 of administration	PT-INR increased to 2.94
	Day 18 of administration	The dose of warfarin potassium was reduced to 2.0mg/day.
	Day 22 of administration	PT-INR 2.29
	Day 32 of administration	The dose of igratimod was increased to 50mg/day.
	Day 41 of administration	Pulmonary alveolar haermorrhage occurred. The patient felt dyspnoea.
	Day 42 of administration (Day of discontinuation)	
	1 day after discontinuation	SpO ₂ was in the range of 80%. PT-INR 7.18. The chest CT showed diffuse opacities. Pulmonary alveolar haermorrhage was suspected. The patient was diagnosed with pulmonary alveolar haermorrhage because Broncho-Alveolar Lavage Fluid (BALF) was bloody. The patient was admitted to a hospital. Pulse therapy with methylprednisolone (500mg) was carried out. Administrations of tazobactam sodium/piperacillin sodium and sulfamethoxazole/trimethoprim (4 tablets) were started.
	2 days after	PT-INR 11.91. 4U of fresh frozen plasma (FFP) and menatetrenone (10mg) were

				discontinuat	ion inje	cted. Oral ad	ministration	of menatetrenone (45mg/day) was started.		
				3 days discontinuat	ion was neg	started. Be ative; the d	cause Pneu ose of sulfa	preathing difficulty worsened, administration of m mocystis PCR was negative and β-D glucan lev amethoxazole/trimethoprim was reduced to pre- a reservoir mask of 15 L/min oxygen.	vel was	
				After 3 days discontinuat		genation did	not improve	Respiratory depression by morphine occurred.		
				13 days discontinuat		patient died.				
			rin potassiu	m, salazosul	lfapyridine,	prednisolone	, tacrolimus I	nydrate, teprenone, sulindac, zolpidem tartrate, ris	edronate	sodium
nical L	_aboratory \	1	T	Г	1	T	4			
	aboratory st items	6 days before administr	Day 2 of administr	administr	administr	administr	1 day after discontin			
		ation	ation	ation	ation	ation	uation			
	T-INR	1.34	1.35	2.94	2.29	2.27	7.18			
	BC 0⁴/µL)	382		363		385	381			
Hb	b (g/dL)	11.0		10.5		10.8	10.6			
		0 dava	3 days	E dovo	6 dava	0 dava				
	a ha nata mi	2 days after	3 days after	5 days after	6 days after	9 days after				
1	anoratory		anci	and						
	aboratory		discontin	discontin	discontin	discontin				
	est items	discontin	discontin uation	discontin uation	discontin uation	discontin uation				
te			discontin uation 1.24	discontin uation 3.06	discontin uation 1.32	uation 1.17				
te P1 RE	test items	discontin uation	uation	uation	uation	uation				

<Case2>

	Patient	Daily dose/		
Sex/	Reason for use	Treatment	Clinical course and therapeutic measures	Outcome
age	(complications)	duration		
Female	Rheumatoid	25mg	Adverse reactions :	
•	arthritis	11days	Faecal occult blood positive	Unknown

60's	(Hypertension) (Osteoporosis)		Gingival bleeding Subcutaneous bleeding	Recovery Recovery
	(Atrial		Anaemia	Recovery
	fibrillation) (Angina)		Administration of warfarin (3mg/day) was started.	
	(Venous thrombosis limb)	Start date of administration	Administration of igratimod was started.	
	(Hepatic steatosis) (Interstitial pneumonia)	Day 11 of administration (Day of discontinuation)	Tingling tongue developed, pharynx pain occurred.	
		1 day after discontinuation	Gingival bleeding was observed.	
		3 days after discontinuation	Subcutaneous bleeding in both thighs (+) was observed.	
		10 days after discontinuation	Because of subcutaneous bleeding in right forearm, front of both thighs, right lower leg, left buttock (++), dose of warfarin was reduced from 3mg/day to 2mg/day. Administration of etanercept was discontinued.	
		11 days after discontinuation	The patient was hard to awake in the morning due to general malaise. The patient presented facial pallor. Gingival bleeding had stopped. Administration of methotrexate was discontinued.	
		12 days after discontinuation	The patient was admitted to a hospital. Hb: 8.2g/dL, RBC :2,420,000/µL Faecal occult bleeding test was positive. Administration of warfarin was discontinued. Transfusion of packed red blood cell (400mL) was performed.	
		13 days after discontinuation	Transfusion of packed red blood cell 400mL was given.	
		16 days after discontinuation	Transfusion of packed red blood cell 400mL was given. In the afternoon, systemic subcutaneous bleeding remained unchange. The patient's malaise disappeared. Her appetite was improved.	
		17 days after discontinuation	Peripheral blood test results showed normal value.	
		20 days after discontinuation	Systemic subcutaneous bleeding disappeared.	

				lays after itinuation	because	ent was expo of a full reco e was disch	overy.	she were able to be discharged from the hospital	
	drochloride,	famotidine,						tic recombination), triamcinolone acetonide, ecabet so irus vaccine,nitroglycerin, celecoxib, minodronic acid h	
	36 days	2 days	12 days	13 days	14 days	17 days	32 days	1	
Laboratory	before	after	after	after	after	after	after		
test items	administ	discontin	discontin	discontin	discontin	discontin	discontin		
	ration	uation	uation	uation	uation	uation	uation		
PT-INR	3.89		3.23		1.16			1	
RBC (10⁴/µL)	362	396	242	284		411	426		
Hb (g/dL)	12.7	13.4	8.2	9.4		13.7	14.6	1	

<Case3>

	Patient	Daily dose/			
Sex/ age	Reason for use (complications)	Treatment duration		Clinical course and therapeutic measures	Outcome
Age Male • 80's	(complications) Reumatoid arthritis (Atrial fibrillation) (Renal impairment) (Peripheral arterial occlusive	25mg 28days	Adverse reactions Start date of administration of	: Bleeding from a site of puncture Conjunctival haemorrhage A clinic <a> prescribed warfarin to the patient. He maintained stable PT-INR levels (1.5-2.0). A orthopedic hospital started administration of igratimod (25mg) The patient took a routine medical chekup at A. PT-INR 1.5	Recovery Recovery
	disease) (Osteoporosis)		Day 29 of administration (Day of discontinuation)	Because uncontrolled bleeding from a site of injection received at B, the patient visited the A. Hemostasis of the site of puncture was difficult, and PT-INR increased to 8.0. Conjunctival haemorrhage of the left eye was observed. The patient was admitted to A. Administration of warfarin was discontinued. Administration of igratimod was discontinued. Oral administration of menatetrenone (15mg) was started and the bleeding stooped.	
			1 day after discontinuation	The patient was discharged from A because the events recovered. PT-INR 1.8	
			7 days after	Administration of warfarin (2mg/day) was resumed.	

	discontinuation		
	28 days after discontinuation	The patient had continued to receive warfarin (2mg/day) with good PT-INR control (1.7).	
Concomitant medications : warfarin pot furosemide, spironolactone, allopurinol,		sarpogrelate hydrochloride, acetaminophen, rebamipide, diclofenac sodium, etanercept nizoribine	., alprostadil,

Details of revision (extract passages)

After the revision	Before the revision
Image: Provision [Contraindications] 1. Pregnant women or women who may become pregnant [Results of the laboratory animal study (rat) showed teratogenicity, increased rate of early fetal death and oetal ductus arteriosus systole (Please refer to the section of "administration to pregnant women, parturient women and nursing women, etc".).] 2. Patients with severe liver disorder (Because hepatic dysfunction may occur, as an adverse drug reaction, there is a risk that liver disorder can be further aggravated) 3. Patients with peptic ulcer (Because peptic ulcer may occur, as an adverse drug reaction, there is a risk that peptic ulcer can be further aggravated) 4. Patients with a prior hypersensitivity to the ingredients of the drug 5. Patients who are taking warfarin (Please see the section of Interaction)	 [Contraindications] 1. Pregnant women or women who may become pregnant [Results of the laboratory animal study (rat) showed teratogenicity, increased rate of early fetal death and oetal ductus arteriosus systole. (Please refer to the section of "administration to pregnant women, parturient women and nursing women, etc".).] 2. Patient with severe liver disorder (Because hepatic dysfunction may occur, as an adverse drug reaction, there is a risk that liver disorder can be further aggravated) 3. Patients with peptic ulcer (Because peptic ulcer may occur, as an adverse drug reaction, there is a risk that peptic ulcer can be further aggravated) 4. Patients with a prior hypersensitivity to the ingredients of the drug
3. Interaction (1)Contraindication to the concomitant use (Patients should not use the following drug concomitantly with igratimod) Name of drugs Clinical conditions · treatments Action mechanism · risk factors Warfarin (warfarine etc.) Severe cases of haemorrages Unknown	3. Interaction Caution with the concomitant use Clinical Action Name of drugs Clinical Action conditions · mechanism · treatments risk factors Non-Steroidal Anti-Inflammatory Drugs (NSAID)

	assoc	iated with the					
	<u>conco</u>	mitant use of					
	the	drug and			Warfarin	Because the effect	unknown
	warfar	in due to				of warfarin may be intensified,this drug	
		ify the effect				should be carefully	
		arfarin have				administered such	
		reported.				as adjusting the dose	
		patients are					
		ed to receive			Cimetidine	The statement is omi	tted
					Phenobarbital	The statement is omi	
		<u>in therapy,</u>			1 Honobarbitar		
		hould not be					
		istered the					
		ind put a high					
		<u>y of warfarin</u>					
	therap	<u>vy.</u>					
)Caution with	the con	comitant use					
		<u>Clinical</u>	Actio				
Name of dr	ugs	<u>conditions</u>	<u>mechani</u>				
Non-Steroida	al	treatments The statement	risk fac is omitted				
Anti-Inflamma	atory	change)		、 .			
Drugs (NSAI Cimetidine		The statement	is omitted	(no			
		change)					
Phenobarbita		The statement	is omitted	(no			
		change)		I			

(____): edit (Revision by the notification from Director of Safety Division, Pharmaceutical and Food Safety Bureau, Ministry of Health. Labor and Welfare, dated May17,