Pharmaceuticals and Medical Devices Safety Information

No. 404 September 2023

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This Pharmaceuticals and Medical Devices Safety Information (PMDSI) publication is issued reflective of safety information collected by the Ministry of Health, Labour and Welfare (MHLW). It is intended to facilitate safer use of pharmaceuticals and medical devices by healthcare providers. The PMDSI is available on the Pharmaceuticals and Medical Devices Agency (PMDA) web page (https://www.pmda.go.jp/english/) and on the MHLW website (https://www.mhlw.go.jp/, only available in Japanese language).

Available information is listed here



Access to the latest safety information is available via the PMDA Medi-navi.

The PMDA Medi-navi is an e-mail mailing list service that serves to provide essential safety information released by the MHLW and PMDA. Subscribing to the Medi-navi will allow you to receive this information on the day of its release.







Published by Ministry of Health, Labour and Welfare



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This English version of PMDSI is intended to be a reference material to provide convenience for users. In the event of inconsistency between the Japanese original and this English translation, the former shall prevail. The PMDA shall not be responsible for any consequence resulting from use of this English version.

Pharmaceuticals and Medical Devices Safety Information

No. 404 September 2023

Ministry of Health, Labour and Welfare Pharmaceutical Safety Bureau, Japan

[Outline of Information]

No.	Subject	Measures	Outline of Information	Page
1	Fire Accidents During Home Oxygen Therapy		It is cautioned in the package inserts, etc. that any sources of fire should not be placed close to an oxygen supplier. In addition, various precautions have been issued including leaflets and videos for handling of fire during home oxygen therapy. Fatal fire accidents have been repeatedly caused by mishandling of fire by patients using oxygen suppliers. Therefore, this article will introduce a request for taking precautions.	4
2	Amendment of the Guidance for Provision of Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications		When marketing authorization holders of drugs, medical devices, and regenerative medical products learn that hazards in public health and hygiene may occur or spread, they must take measures including information provision to prevent such hazards. Given the increasing need to obtain information electronically, the operation on the methods for providing information to medical institutions through the Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications was partially amended. This section will introduce the details of the amendment.	7
3	Important Safety Information	P C	Dabigatran etexilate methanesulfonate (and 2 others): Regarding the revision of the PRECAUTIONS of drugs in accordance with the Notification dated August 29, 2023, this section will present the details of important revisions as well as the case summary serving as the basis for these revisions.	9
4	Revision of PRECAUTIONS (No. 344)	P	Rivastigmine (and 5 others)	18
5	List of Products Subject to Early Post-marketing Phase Vigilance		List of products subject to Early Post- marketing Phase Vigilance as of August 31, 2023	22

E: Distribution of Dear Healthcare Professional Letters of Emergency Communications, R: Distribution of Dear Healthcare Professional Letters of Rapid Communications, P: Revision of PRECAUTIONS, C: Case Reports

Reporting of safety information such as adverse reactions to the Minister of Health, Labour and Welfare is a duty of healthcare professionals.

If healthcare professionals such as physicians, dentists, and pharmacists detect adverse reactions, infections, or malfunctions associated with drugs, medical devices, or regenerative medical products, please report them to the Minister of Health, Labour and Welfare directly or through the marketing authorization holder. As healthcare professionals, drugstore and pharmacy personnel are also required to report adverse reactions, etc.

Please utilize the Report Reception Site for reporting.

(This service is only available in Japanese.)



https://www.pmda.go.jp/safety/reports/hcp/0002.html

Abbreviations

ADR	Adverse Drug Reaction
EPPV	Early Post-marketing Phase Vigilance
GERD	Gastrooesophageal Reflux Disease
HOT	Home Oxygen Therapy
JIMGA	Japan Industrial and Medical Gases Association
MAH	Marketing Authorization Holder
MHLW	Ministry of Health, Labour and Welfare
NDB	National Database of Health Insurance Claims and Specific Health Checkups of Japan
PFSB	Pharmaceuticals and Food Safety Bureau
PMDA	Pharmaceuticals and Medical Devices Agency
PSD	Pharmaceutical Safety Division
PSEHB	Pharmaceutical Safety and Environmental Health Bureau
SD	Safety Division

1

Fire Accidents During Home Oxygen Therapy

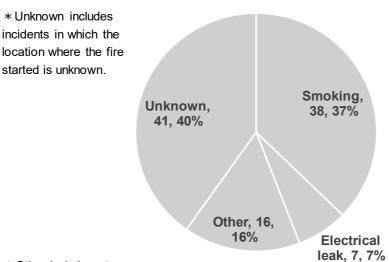
1. Introduction

Home oxygen therapy (HOT) is utilized in a wide variety of ways, including home oxygenation therapy for patients with severe chronic respiratory failure due to various causes, patients with pulmonary hypertension, or patients with chronic heart failure who are discharged from hospital in stable condition or awaiting surgery, or patients with severe cluster headaches who all inhale oxygen on their own at home; oxygen therapy given at home to patients with cyanotic congenital heart disease during an attack. According to the 8th NDB* Open Data, approximately 1.68 million cases of HOT instruction and management fees and approximately 3.97 million cases of oxygen suppliers necessary for oxygen administration at home are assessed annually¹.

* National Database of Health Insurance Claims and Specific Health Checkups of Japan.

While it is widely used in this way, 102 cases of serious injury or death due to fire accidents during HOT were reported in Japan in the 20-year period from 2003 to May 2023. Among the causes of the fires in these 102 cases including those based on speculation, there are many cases where a causal relationship with the sources of fire, such as cigarettes and gas stoves, cannot be ruled out. Of note, there have been no cases of fires directly caused by oxygen suppliers themselves.

Cases of serious health damage (Counted by Medical Gases Division, Japan Industrial and Medical Gases Association [as of the end of May 2023]) Classfication by Causes of Fire Accidents



* Oxygen suppliers themselves have never caused fire.

* Other includes stoves, incense sticks, kitchen, candles, etc.

(Classification of all 102 fire accidents by cause)

Excerpted from https://www.jimga.or.jp/files/page/hot/oyakudachi/HHN_jiko.pdf

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¹ The 8th NDB Open Data (according to C151 HOT instruction and management fees, C157 oxygen cylinder premium, C158 oxygen concentrator premium, and C159 liquid oxygen unit premium)

Oxygen is a combustion-enhancing gas. For this reason, it is cautioned in the package inserts and the user's manual for oxygen suppliers used for HOT that any sources of fire should not be placed within 2 meters of an oxygen supplier. In addition, various precautions have been issued including leaflets and videos for handling of fire during HOT, which have been prepared and distributed by the Japan Industrial and Medical Gases Association (hereinafter referred to as "JIMGA"). Furthermore, it has been requested that medical institutions be informed and instructed through the PMDA Medical Safety Information No. 4 "Precautions Against Smoking and Use of Fire in Long-term Oxygen Therapy (LTOT)" issued in June 2008 and the "Handling of Fire During Home Oxygen Therapy (Precautions and Request for Information Dissemination)" issued by the MHLW in January 2010.

However, fatal fire accidents caused by mishandling of fire have still occurred repeatedly during the use of oxygen suppliers. Accordingly, healthcare professionals, patients, and their caregivers are advised again to take precautions.

2. Items to be explained to patients under HOT and their caregivers

Please explain to patients undergoing HOT and their caregivers that following precautions against handling of fire should be taken with sufficient understanding when using the oxygen suppliers.

- 1) While using an oxygen supplier, sources of fire including cigarettes near an oxygen supplier may cause items such as cannulas and clothing to ignite, resulting in severe burn injuries or home fires.
- 2) Smoking is strictly prohibited while using an oxygen supplier.
- 3) Any sources of fire (cigarettes, heaters, gas stoves, candles, incense sticks, matches, lighters, etc.) should not be placed within 2 meters of an oxygen supplier when it is in use.
- 4) Do not place sources of fire <u>within 5 meters</u> from the liquid oxygen unit when transferring and filling liquid oxygen from an installed device (parent container) to a portable device (child container).
- 5) Oxygen will not cause fire on items such as cannulas and clothing or cause home fires when properly used in accordance with the package insert with appropriate precautions against fire. Patients are advised to inhale oxygen as directed by a physician without undue fear.

According to the JIMGA survey, it is reported that, among the cases of fire accidents, the duration of using oxygen suppliers is mostly less than 6 months or over 4 years from the start of use, which is when patients become used to using the device. For this reason, <u>please provide</u> detailed explanations, especially in the initial period of introduction of HOT, and continue to provide explanations after the introduction.

3. Others

Among oxygen suppliers, oxygen concentrators are required to be marketed in accordance with "JIS T 7209: 2018 Medical electrical equipment - Particular requirements for basic safety and essential performance of oxygen concentrator equipment" from February 1, 2021. This standard specifies additional requirements regarding fire prevention and the items related to reduction of the risk of a fire by using accessories. It mandates that oxygen outlet connector be equipped with a means to prevent flames from passing through the relevant connector to the inside². However, this standard is intended to prevent flames from reaching the inside of a device and does not completely prevent a fire. Therefore, healthcare professionals are requested to explain what is described in 2. above to patients undergoing HOT and their caregivers, and to continue to cooperate for the proper use of oxygen suppliers.

[References]

Please refer to the web page of the MHLW for information on handling of fire during HOT.

² JIS T 7209: 2018 Medical electrical equipment - Particular requirements for basic safety and essential performance of oxygen concentrator equipment (from 201.11.2.101 and 201.102.3)

<u>Precautions Regarding Handling of Fire During Home Oxygen Therapy</u> https://www.mhlw.go.jp/stf/houdou/2r9852000003m15 1.html (only in Japanese)

The above webpage also contains the following links.

- Medical Safety Information No. 4 of the Pharmaceuticals and Medical Devices Agency "Precautions Against Smoking and Use of Fire in Long-term Oxygen Therapy (LTOT)" https://www.pmda.go.jp/files/000144705.pdf (in Longlish)
- Joint Notification by the Directors of General Affairs Division and Guidance of Medical Service Division, Health Policy Bureau, and by the Director of Safety Division, Pharmaceutical and Food Safety Bureau, MHLW, dated January 15, 2010, "Handling of Fire During Home Oxygen Therapy (Precautions and Request for Information Dissemination)" https://www.mhlw.go.jp/content/11125000/2r98520000003m9w.pdf (only in Japanese)
- Website of the Japan Industrial and Medical Gases Association
 <u>https://www.jimga.or.jp/hot/</u> (only in Japanese)

 *Videos of "Precautions for handling of portable oxygen cylinder" and "Precautions Regarding Handling of Fire during HOT" are also available.

2

Amendment of the Guidance for Provision of Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications

1. Introduction

To prevent the occurrence of hazards in public health and hygiene associated with the use of drugs, medical devices, and regenerative medical products (hereinafter referred to as "drugs, etc."), it is important that post-marketing reports of adverse reactions/malfunctions, etc. be collected and reviewed in order to promptly provide feedback about necessary information to medical institutions.

Under Article 68-9, Paragraph 1 of the Act on Securing Quality, Efficacy and Safety of Products Including Pharmaceuticals and Medical Devices (Act No. 145 of 1960), when marketing authorization holders (MAHs) of drugs, etc. learn of the occurrence or spread of hazards in health and hygiene suspected to be caused by using the drugs, etc. that they have manufactured and marketed, they must take necessary measures including recall, discontinuing selling, and information provision to prevent such hazards. In addition to the notifications of Revisions of PRECAUTIONS, information has been provided to healthcare professionals through Dear Healthcare Professional Letters of Emergent Safety Communications (Yellow Letter), which provide emergent and important safety information about drugs, etc., or Dear Healthcare Professional Letters of Rapid Safety Communications (Blue Letter), which provide information that does not require emergent communications but should be promptly provided to alert them.

The methods, etc. for providing information to healthcare professionals through Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications have been described in "The Guidance for Provision of Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications" (PFSB/SD Notification No. 1031-1 by the Director of Safety Division, Pharmaceutical and Food Safety Bureau, MHLW, dated October 31, 2014, hereinafter referred to as the "previous notification"), which was amended by the PSEHB/PSD Notification No.0515-1 issued by the Director of Pharmaceutical Safety Division, Pharmaceutical Safety and Environmental Health Bureau, MHLW on May 15, 2020. Given the increasing need to obtain information electronically at medical institutions, etc. in recent years, the operation was partially amended. This section will introduce the details of the amendment.

2. Background

Regarding the information provision of Dear Healthcare Professional Letters of Emergent Safety Communications and Dear Healthcare Professional Letters of Rapid Safety Communications to the medical institutions, the former has been directly provided in principle. The latter has been provided via fax, e-mail, direct mail, etc. in addition to direct distribution.

In recent years, the method of information provision/collection of drugs, etc. has been shifting from face-to-face visits to non-face-to-face visits/contactless visits due to the COVID-19 epidemics. Taking this situation into consideration, the previous notification was set to be partially amended to improve the speed and comprehensiveness of information provision of Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications.

3. Contents of amendment

The main contents of the amendment are as follows:

•For Dear Healthcare Professional Letters of Emergent Safety Communications, in addition

to the conventional direct distribution, it was made possible to provide information through electronic means such as fax, e-mail, and direct mail as with information provision of Dear Healthcare Professional Letters of Rapid Safety Communications to improve the speed and comprehensiveness of the information.

•It was decided to provide more detailed information via face-to-face visits, online interviews, telephone calls, etc. as necessary for Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications and revised information on precautions, etc.

In addition, "Questions and Answers (Qs & As) on the Guidance for Provision of Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications" and "Amendment of Q&A on Post-marketing Reports on Adverse Drug Reactions, etc. and Clinical Trial Reports on Adverse Drug Reactions, etc. Conforming to Implementation Guide of E2B (R3)" were amended to reflect this partial amendment.

These amendments came into effect on August 10, 2023.

4. Request for healthcare professionals

When especially important safety information such as Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications is obtained, healthcare professionals are requested to understand the information and share it promptly among healthcare professional staff members in their institutions.

Information related to revision of package inserts including Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications is promptly distributed to PMDA medi-navi subscribers via e-mail. Although the number of PMDA medi-navi subscribers at medical institutions, pharmacies, etc. has been increasing, there are still some medical institutions, etc. with no subscribers. Healthcare professionals are encouraged to register with PMDA medi-navi to obtain the latest safety information promptly and properly and to take necessary safety measures in a timely manner.

[References]

•Partial Amendment of the Guidance for Provision of Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications

https://www.mhlw.go.jp/content/11120000/001133360.pdf (only in Japanese)

- •Questions and Answers (Qs & As) on The Guidance for Provision of Dear Healthcare Professional Letters of Emergent/Rapid Safety Communications https://www.mhlw.go.jp/content/11120000/001133389.pdf (only in Japanese)
- •Amendment of Q&A on Post-marketing Reports on Adverse Drug Reactions, etc. and Clinical Trial Reports on Adverse Drug Reactions, etc. Conforming to Implementation Guide of E2B (R3) https://www.mhlw.go.jp/content/11120000/001133391.pdf (only in Japanese)
- •Dear Healthcare Professional Letters of Emergent Safety Communications (Yellow Letter) and Dear Healthcare Professional Letters of Rapid Safety Communications (Blue Letter) https://www.pmda.go.jp/safety/info-services/drugs/calling-attention/esc-rsc/0001.html (in Japanese)

https://www.pmda.go.jp/english/safety/info-services/drugs/esc-rsc/0001.html (in English)

Important Safety Information

Regarding the revision of the PRECAUTIONS of package inserts of drugs in accordance with the Notification dated August 29, 2023, this section will present the details of important revisions as well as the case summary serving as the basis for these revisions.

1 Dabigatran etexilate methanesulfonate

Brand name (name of company)	Prazaxa Capsules 75 mg, 110 mg (Nippon Boehringer Ingelheim Co., Ltd.)
Therapeutic category	Anticoagulants
Indications	Reduction in the risk of ischaemic stroke and systemic embolism in patients with nonvalvular atrial fibrillation

PRECAUTIONS (Revised language is underlined.)

[Under new instructions]

8. IMPORTANT PRECAUTIONS (newly added)

<u>If this drug is retained in the esophagus, oesophageal ulcer or oesophagitis may occur. Patients should be instructed as follows:</u>

•This drug should be taken with a sufficient amount (e.g., a full

glass) of water to facilitate delivery to the stomach.

•<u>If symptoms of oesophageal disease (difficult swallowing or odynophagia, retrosternal pain, severe and persistent heartburn,</u>

etc.) occur, the attending physician should be consulted. Oesophageal ulcer, oesophagitis

11. ADVERSE
REACTIONS
11.1 Clinically
Significant Adverse
Reactions
(newly added)
14. PRECAUTIONS
CONCERNING USE

Reference information

(deleted)

Number of cases (for which a causal relationship between the drug and event is reasonably possible) collected in the PMDA's database for adverse drug reactions, etc. reports

<Cases involving oesophageal ulcer>

14 cases, including 1 case which fell under the contraindications. (No patient mortalities)

<Cases involving oesophagitis>

11 cases, including 1 case which fell under the contraindications. (No patient mortalities)

Number of patients using the drug as estimated by the MAH during

the previous 1-year period: Approximately 103 000

Japanese market launch: March 2011

Case summary

-436	summa	Patient	Daily dose/		Adverse rea	action
No.	Sex/	Reason for use	administration	,	Clinical course an	
	age	(complication)	duration	,	omnoar course an	u ucaunciii
1	Male 80s	Atrial fibrillation (cardiac failure, hypertension,	220 mg for 65 days	Oesophageal ulc Date unknown	_	s admitted to the hospital
		interstitial lung disease, anaemia, respiratory failure,			continued to re	ted cardiac failure. He ceive treatment, but cardiac tract infection, and
		mitral valve			pneumonia rep	eated.
		incompetence, cognitive disorder)		5 days before administration	Administration	of apixaban was terminated.
		cognitive disorder)		Day 1 of		of dabigatran etexilate
				administration	was initiated. S decreased cog be deemed tha	ate (110 mg, 2 times/day) ince the patient had nitive function, it could not t he took the drug properly
				Date unknown		h water and food. niatal hernia occurred.
				Day 65 of administration	14:22 Haemate	emesis occurred after the ch in the afternoon.
				(day of	: '	scopy was performed.
				discontinuation)	Esophagus:	Gastrooesophageal reflux disease (GERD): The patient had oesophageal hiatal hernia. Erosions were formed at the lower end
						of the esophagus. Adhesion of drug-like tablet was noted. Possible drug-induced oesophageal ulcer was
					Stomach:	noted. Cardiac varices/gastric body/antrum/pylorus section: No
					Duodenum	abnormalities Duodenal bulb/descending limb: No abnormalities Papilla of Vater: Not identified
					Biopsy:	No biopsy was performed.
					Diagnosis:	Oesophageal hiatal hernia and drug-induced
						oesophageal ulcer were suspected.
					the patient took methanesulfon Administration methanesulfon Red blood cells phosphate med were transfuse Lansoprazole (tablets/day, on- sodium alginate	DD tablets (15 mg, 2 ce a day, after dinner) and e oral solution 5% (90
				2 days after discontinuation	were prescribe	s a day, before each meal) d. scopy was performed again. GERD: Equivalent to grade B, and it was diagnosed as drug- induced oesophageal
						ulcer; bleeding was

arrested; a white coat was formed. Stomach: Cardiac varices/gastric body/antrum: No abnormalities Pylorus section: Redness was noted in the greater curvature. Duodenum Duodenal bulb/descending limb: No abnormalities Papilla of Vater: Not identified Biopsy: No biopsy was performed. Diagnosis: Oesophageal ulcer and haemostasis were confirmed. Oesophageal hiatal hernia Drug-induced oesophageal ulcer: Recovered. The outcome of oesophageal hiatal hernia Date unknown was unknown. Aggravation of chronic cardiac failure, renal Date unknown failure, and atrial fibrillation occurred. 138 days after The patient died. Cause of death: Aggravation of chronic discontinuation cardiac failure, renal failure, atrial fibrillation

Laboratory test value

Laboratory test value									
	Day 53 of administration	Day 65 of administration (day of discontinuation)	1 day after discontinuation	48 days after discontinuation	62 days after discontinuation				
BUN (mg/dL)	14.9	19.4	18.9	18.8	12.3				
Cre (mg/dL)	1.84	1.87	1.73	1.49	1.14				
RBC(× 10 000 cells/microL)	262	258	300	294	219				
Hb (g/dL)	7.1	7.1	8.6	8.8	6.4				
Ht (%)	21.2	20.6	24.2	26.1	19.4				
MCV (fL)	81	80	81	89	89				
MCH (pg)	27.1	27.5	28.7	29.9	29.2				
MCHC (%)	33.5	34.5	35.5	33.7	33				
APTT (sec)	-	-	91	-	-				
PT (sec)	-	25.6	23.1	-	-				
INR	-	2.31	2.07	-	-				

Day 65 of administration (day of discontinuation)

PT control: 11.3 PT activity: 27.0 PT control: 11.3 PT activity: 30.4

Concomitant drugs: Magnesium oxide, spironolactone, nicorandil, isosorbide dinitrate, theophylline, telmisartan, rebamipide, furosemide, risperidone, eszopiclone

Case summary

	Patient			Daily	dose/	Adverse reaction			on	
No.	Sex/ age		ason for use omplication)		istration ation		(eatment		
1	Male 80s	cardiac failure, hypertension, osteoporosis)		Appro 11 ar	Approximately 11 and a half years Day 1 of administration Approximately 11 and a half years after administration (day of discontinuation 3 days after discontinuation 8 days after discontinuation 12 days after discontinuation		n y n n on	The patient was transported by ambulance due to loss of consciousness, black vomit, and black stools, and was hospitalized. An upper gastrointestinal tract endoscopy was performed, and inflammation was found in the area between the middle and lower esophagus region. He was followed up with fasting, starting solution, and omeprazole sodium. Administration of dabigatran etexilate methanesulfonate was discontinued. Since blood sampling revealed no exacerbation of anaemia, the patient resumed eating. Holter monitoring was performed. Since no atrial fibrillation was found, discontinuation of dabigatran etexilate methanesulfonate was continued. Dabigatran etexilate methanesulfonate-		
	Laborator	y test v	/alue						rged from the hospital.	
			Approximately a half years a administrati (day of disconting)	after 1 d ion disco		ay after ntinuation		3 days after discontinuation	8 days after discontinuation	
	Hb (g/dL)	9.6			8.2		8.8	9.3	
	MCV (fL))	85.8		8	36.1		87.3	88.1	
	BUN (mg	g/dL)	30.7		- 2	21.8		11.3	16.7	
	CRE (mg	g/dL)	1.19	_		1.19	1.08		1.19	

Concomitant drugs: Cibenzoline succinate, carvedilol, azilsartan, famotidine, mirabegron, suvorexant, alfacalcidol, octotiamine/riboflavin/pyridoxine hydrochloride/cyanocobalamin, rebamipide, calcium L-aspartate hydrate

2 Rivastigmine

Brand name (name of company)	[1] Exelon Patch 4.5 mg, 9 mg, 13.5 mg, 18 mg (Novartis Pharma K.K.) [2] Rivastach Patches 4.5 mg, 9 mg, 13.5 mg, 18 mg (Ono Pharmaceutical Co., Ltd.), and the others
Therapeutic category	Other agents affecting central nervous system
Indications	Suppression of progression of symptoms of dementia in mild and moderate Alzheimer's dementia

PRECAUTIONS (Revised language is underlined.)

[Under old instructions]

Important Precautions Bradycardia, atrioventricular block, <u>prolonged QT</u>, <u>torsade de pointes</u>,

etc. may occur following administration of this drug. In particular, patients with heart disease (e.g., myocardial infarction, cardiac valvulopathy, cardiomyopathy), patients with electrolyte abnormalities (e.g., hypokalaemia), patients with prolonged QT or a history/family history of the disease, etc. should be carefully monitored to prevent

them from developing serious arrhythmia.

Adverse Reactions Clinically Significant Adverse Reactions Angina pectoris, myocardial infarction, bradycardia, atrioventricular

block, sick sinus syndrome, prolonged QT:

Angina pectoris, myocardial infarction, bradycardia, atrioventricular block, sick sinus syndrome, and prolonged QT may occur. In such cases, administration should be discontinued immediately and

appropriate measures should be taken.

[Under new instructions]

9. PRECAUTIONS CONCERNING PATIENTS WITH SPECIFIC

BACKGROUNDS 9.1 Patients with Complication or History of Diseases,

11. ADVERSE REACTIONS

etc.

11.1 Clinically Significant Adverse Reactions

Reference information

Patients with heart disease including myocardial infarction, cardiac valvulopathy, and cardiomyopathy, electrolyte abnormalities (e.g., hypokalaemia), etc., and patients with prolonged QT or a

history/family history of the disease

Bradycardia, atrioventricular block, <u>prolonged QT</u>, <u>torsade de pointes</u>, etc. may occur. Patients should be carefully monitored to prevent

them from developing serious arrhythmia.

Angina pectoris, myocardial infarction, bradycardia, atrioventricular

block, sick sinus syndrome, prolonged QT

Number of cases (for which a causal relationship between the drug and event is reasonably possible) collected in the PMDA's database for adverse drug reactions, etc. reports

Cases involving electrocardiogram prolonged QT reported in Japan: 5 (No patient mortalities)

Cases involving electrocardiogram prolonged QT reported overseas: 3 (No patient mortalities)

Number of patients using the drug as estimated by the MAH during the previous 1-year period:

[1] approximately 16 792 [2] approximately 62 000

Japanese market launch: [1] [2] July 2011

Case summary

L		Patient	Daily dose/	Adverse reaction				
ο.	Sex/ age	Reason for use (complication)	administration duration	Clinical course and treatment				
	Female 80s	Alzheimer's type dementia (hypertension, dyslipidemia, Meniere's disease, cervicobrachial syndrome, memory impairment, insomnia, gastrooesophageal reflux disease, cerebral infarction, hypercholesterolaemia , dizziness)	4.5 mg for 24 days 9 mg for 28 days 13.5 mg for 28 days 18 mg for 27 days	Electrocardiogra Approximately 5 and a half months before administration Day 1 of administration Day 25 of administration Day 81 of administration Day 107 of administration day of discontinuation 3 days after discontinuation 4 days after discontinuation 31 days after discontinuation	The patient fell at a department store by herself. Surgery was performed at Hospita. A for right femoral neck fracture. After hospitalization for approximately 1 monthshe was transferred to the rehabilitation department of Hospital B. During the hospitalization, cognitive symptoms, especially short-term memory impairment appeared and gradually worsened. The score for the revised Hasegawa's dement scale was around 15. After hospital discharge, she was diagnosed with Alzheimer's type dementia. Administration of rivastigmine was increased to 9 mg. The dose of rivastigmine was increased to 13.5 mg. The dose of rivastigmine was increased to 13.5 mg. The dose of rivastigmine was increased to 13.5 mg. The patient complained of chills, nausea, and inappetence. The patient visited the hospital complaining of yawning upon waking, dizziness, heaviness of head, and difficulty in walking from the morning. An ECG and biochemic tests were performed as a precautionary measure. The ECG showed QTc: 0.521 and HR: 54. Blood pressure was 152/68 mmHg (normally 120/60 mmHg). 500 mL fluid infusion and 20 mL of sodium bicarbonate injection were administered, and application of rivastigmine was discontinued. She rested at home thereafter. A letter of referral to the department of cardiology of Hospital C was prepared. At the revisit to the hospital, the patient became well and her appetite improved, and she no longer had a stumbling gait. The patient was referred to the department of cardiovascular medicine at Hospital C, and similar ECG findings (prolonged QT) were confirmed. The patient revisited the hospital and an ECG was performed. The results were within the normal range. The outcome of electrocardiogram prolonged QT was "recovery."			
	Laborato	Day 81 of adminis		7 of administration	31 days after			
	ECG		(day o	of discontinuation)	discontinuation Within normal range			
	HR (bpm	Within normal rai	iige Piolor	1ged Q10 0.521 54	vvidilit floriflat ratige			

3 Peficitinib hydrobromide

Brand name (name of company)	Smyraf Tablets 50 mg, 100 mg (Astellas Pharma Inc.)
Therapeutic category	Agents affecting metabolism, n.e.c. (not elsewhere classified)
Indications	Rheumatoid arthritis in patients who have had an inadequate response to conventional treatments (including the prevention of structural joint damage)

PRECAUTIONS (Revised language is underlined.)

[Under new instructions]

9. PRECAUTIONS
CONCERNING
PATIENTS WITH
SPECIFIC
BACKGROUNDS
9.1 Patients with
Complication or
History of Diseases,
etc.

Patients with risk factors for venous thromboembolism

(newly added) 11. ADVERSE

11. ADVERSE

REACTIONS

Venous thromboembolism

Pulmonary embolism and deep vein thrombosis may occur.

11.1 Clinically Significant Adverse

Reactions (newly added)

Reference information Num

Number of cases (for which a causal relationship between the drug and event is reasonably possible) collected in the PMDA's database

for adverse drug reactions, etc. reports

Cases involving venous thromboembolism: 1 (No patient mortalities) Number of patients using the drug as estimated by the MAH during

the previous 1-year period: Approximately 3 434

Japanese market launch: July 2019

Case summary

ŀ		Patient		Daily dose/	Adverse reaction Clinical course and treatment				
١.	Sex/ age		for use ication)	administration duration					
		` .		-,	Book and though and				
	Female 80s	infection, hy	arthritis perculosis /pertension, orosis)	100 mg for 210 days	Deep vein throm Before initiation of administration 14 days before administration Day 1 of administration Date unknown Day 155 of administration Day 193 of administration Day 210 of administration (day of discontinuation) 85 days after discontinuation 86 days after discontinuation	Administration salazosulfap prednisolone sodium hydradue to rheum Administration salazosulfap an inadequal Administration salazosulfap an inadequal Administration stage/degree arthritis: Stage/degre	on of peficitinib h) was initiated diarthritis. Classifice of progression ge II, classificatio pairment: Class wollen joint cour sments of disea cicians' global as vity:20/100 the patient's acti was assessed t." The patient w on of prednisolor ue to an inadequ ower limb was n oth lower limbs ve evealed blood cle le vein on both s sois occurred. Ac drobromide was nined that inpati- ssary, and edoxa- mg/day) was ad deep vein thror on of edoxaban t	g/day), oprofen) was initiated and and animated due to ydrobromide ue to cation of of rheumatoid on of degree of II, joints count ats: 3, patients' se activity: seesments of vities of daily as as able to walk as able to walk as at the response. Other our of discontinued ent treatment aban tosilate ministered as nbosis. osilate hydrate	
		ory test val	Day 1	Day 22	Day 99	Day 190	Day 210 (day of discontin- uation)	15 days afte discontin- uation	
	RBC (10	⁶ /µL)	4.15	-	-	3.92	3.98	3.92	
	Haemog	lobin (g/dL)	12.1	12.5	12.3	11.9	11.8	11.7	
	Haemato	ocrit (%)	37.9	-	-	37.0	37.4	37.1	
	WBC (10	WBC (10 ³ /μL) 6.7		6.5	4.4	3.9	6.1	5.1	
	Platelet ((10 ⁴ /µL)	Platelet count 18.9 (10 ⁴ /µL) Prothrombin time - (second)		16.2	15.1	16.5	19.3	18.3	
	(second)			-	-	-	-	13	
	APTT (se	econd)	-	-	-	-	-	29.6	
			20	_	5	14	36	-	
	ESR (mr	n/nour)	20		, ,				
	,	n/nour) otein (g/dL)	6.3	-	-	-	6.6	6.4	

Total bilirubin (mg/dL)	0.8	1.0	0.8	0.7	0.8	0.6
CK (U/L)	71	126	125	163	161	82
Cr (mg/dL)	0.52	0.64	0.68	0.61	0.67	0.73
CRP (mg/dL)	0.20	0.02	0.01	0.05	0.44	0.24
D dimer (µg/ml)	-	-	-	-	8.4	3.3
Lower limbs venous ultrasound	-	-	-	-	Blood clots were noted in the veins inside the soleus muscle on both sides.	(15 days after discontin- uation, date unknown) Blood clots were noted in the veins.

Concomitant drugs: Loxoprofen sodium hydrate, amlodipine besilate, alendronate sodium hydrate, isoniazid, pyridoxal phosphate hydrate

Revision of PRECAUTIONS (No.344)

This section presents details of revisions to the PRECAUTIONS and brand names of drugs that have been revised in accordance with the Notifications dated August 29, 2023.

Other agents affecting central nervous system

Rivastigmine

Brand name Exelon Patch 4.5 mg, 9 mg, 13.5 mg, 18 mg (Novartis Pharma K.K.),

Rivastach Patches 4.5 mg, 9 mg, 13.5 mg, 18 mg (Ono

Pharmaceutical Co., Ltd.), and the others

[Under old instructions] **Important Precautions**

Bradycardia, atrioventricular block, prolonged QT, torsade de pointes, etc. may occur following administration of this drug. In particular, patients with heart disease (e.g., myocardial infarction, cardiac valvulopathy, cardiomyopathy), patients with electrolyte abnormalities (e.g., hypokalaemia), patients with prolonged QT or a history/family history of the disease, etc. should be carefully monitored to prevent them from developing serious arrhythmia.

Adverse Reactions Clinically Significant Adverse Reactions

Angina pectoris, myocardial infarction, bradycardia, atrioventricular

block, sick sinus syndrome, prolonged QT:

Angina pectoris, myocardial infarction, bradycardia, atrioventricular block, sick sinus syndrome, and prolonged QT may occur. In such cases, administration should be discontinued immediately and appropriate measures should be taken.

[Under new instructions] 9. PRECAUTIONS CONCERNING **PATIENTS WITH SPECIFIC BACKGROUNDS**

Patients with heart disease including myocardial infarction, cardiac valvulopathy, and cardiomyopathy, electrolyte abnormalities (e.g., hypokalaemia), etc., and patients with prolonged QT or a history/family history of the disease

9.1 Patients with Complication or History

of Diseases, etc. 11. ADVERSE **REACTIONS**

Bradycardia, atrioventricular block, prolonged QT, torsade de pointes, etc. may occur. Patients should be carefully monitored to prevent them from developing serious arrhythmia.

11.1 Clinically **Significant Adverse** Reactions

Angina pectoris, myocardial infarction, bradycardia, atrioventricular block, sick sinus syndrome, prolonged QT

Other hormone preparations (including antihormone preparations)

Finasteride

Brand name Propecia Tablets 0.2 mg, 1 mg (Organon K.K.), and the others

[Under old instructions] **Careful Administration** (newly added)

Patients with depression, depressed state, or a history of those diseases or patients with a history of suicidal ideation or a suicide attempt [Suicidal ideation, suicide attempt, and completed suicide have been reported, although the causal relationship with this drug is unclear.]

Important Precautions (newly added)

Suicidal ideation, suicide attempt, and completed suicide have been reported, although the causal relationship with this drug is unclear. Patients should be carefully monitored. In addition, if suicidal ideation or a suicide attempt is observed, patients should be instructed to discontinue taking this drug and contact a physician immediately.

[Under new instructions]

8. IMPORTANT PRECAUTIONS (newly added)

discontinue taking this drug and contact a physician immediately.

Suicidal ideation, suicide attempt, and completed suicide have been reported, although the causal relationship with this drug is unclear. Patients should be carefully monitored. In addition, if suicidal ideation

or a suicide attempt is observed, patients should be instructed to discontinue taking this drug and contact a physician immediately.

9. PRECAUTIONS
CONCERNING
PATIENTS WITH

9.1 Patients with Complication or History of Diseases, etc.
<u>Patients with depression, depressed state, or a history of those</u>
<u>diseases or patients with a history of suicidal ideation or a suicide</u>

SPECIFIC <u>attempt</u>

BACKGROUNDS Suicidal ideation, suicide attempt, and completed suicide have been reported, although the causal relationship with this drug is unclear.

3

Anticoagulants

Dabigatran etexilate methanesulfonate

Brand name Prazaxa Capsules 75 mg, 110 mg (Nippon Boehringer Ingelheim Co., Ltd.)

[Under new instructions]

8. IMPORTANT PRECAUTIONS (newly added)

If this drug is retained in the esophagus, oesophageal ulcer or oesophagitis may occur. Patients should be instructed as follows:

•This drug should be taken with a sufficient amount (e.g., a full glass)

of water to facilitate delivery to the stemach

of water to facilitate delivery to the stomach.

Oesophageal ulcer, oesophagitis

•If symptoms of oesophageal disease (difficult swallowing or odynophagia, retrosternal pain, severe and persistent heartburn, etc.) occur, the attending physician should be consulted.

11. ADVERSE REACTIONS

11.1 Clinically

Significant Adverse Reactions

(newly added)
14. PRECAUTIONS
CONCERNING USE

Precautions Concerning

Administration of the

Drug

(deleted)

4

Agents affecting metabolism, n.e.c. (not elsewhere classified)

Peficitinib hydrobromide

Brand name Smyraf Tablets 50 mg, 100 mg (Astellas Pharma Inc.)

[Under new instructions]
9. PRECAUTIONS
CONCERNING

CONCERNING PATIENTS WITH

SPECIFIC BACKGROUNDS

Patients with risk factors for venous thromboembolism

9.1 Patients with

Complication or History

of Diseases, etc. (newly added) 11. ADVERSE REACTIONS

11.1 Clinically

Significant Adverse

Reactions (newly added)

Venous thromboembolism

Pulmonary embolism and deep vein thrombosis may occur.

5

Antibiotic preparations acting mainly on gram-positive and gram-negative bacteria

[1] Cefazolin sodium

[2] Cefazolin sodium hydrate

Brand name

[1] Cefazolin Sodium Injection 1 g Bag Otsuka (Otsuka Pharmaceutical

Factory, Inc.), and the others

[2] Cefamezin α 0.25 g for Intramuscular Injection, Cefamezin α 0.5 g

for Intramuscular Injection, Cefamezin α 0.25 g for Injection, Cefamezin α 0.5 g for Injection, Cefamezin α 1 g for Injection, Cefamezin α 2 g for Injection, Cefamezin α 1 g for Infusion Kit, Cefamezin α 2 g for Infusion Kit (LTL Pharma Co., Ltd.)

[Under old instructions]

Important Precautions Since no methods are currently available for predicting onset of shock,

anaphylaxis, or <u>acute coronary syndrome accompanying allergic</u> <u>reaction</u> associated with this drug with reasonable certainty, the

following measures should be taken.

Adverse Reactions Clinically Significant Adverse Reactions (newly added) Acute coronary syndrome accompanying allergic reaction:

Acute coronary syndrome accompanying allergic reaction may occur. Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should be discontinued and

appropriate measures should be taken.

[Under new instructions]

8. IMPORTANT PRECAUTIONS

Since no methods are currently available for predicting onset of shock, anaphylaxis, or acute coronary syndrome accompanying allergic reaction associated with this drug with reasonable certainty, the

following measures should be taken.

11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions

(newly added)

Acute coronary syndrome accompanying allergic reaction

6

[1] Axicabtagene ciloleucel

[2] Idecabtagene vicleucel

[3] Ciltacabtagene autoleucel

[4] Tisagenlecleucel

[5] Lisocabtagene maraleucel

Brand name

[1] Yescarta Intravenous Drip Infusion (Gilead Sciences K.K.)

[2] Abecma Intravenous Infusion (Bristol-Myers Squibb K.K.)

[3] Carvykti Suspension for Intravenous Infusion (Janssen

Pharmaceutical K.K.)

[4] Kymriah Suspension for Intravenous Infusion (Novartis Pharma

K.K.)

[5] Breyanzi Suspension for Intravenous Infusion (Bristol-Myers Squibb

Important Precautions (newly added)

An explanation on the possibility that this product cannot be provided due to reasons such as not conforming to specifications should be given to patients in advance.

List of Products Subject to Early Post-marketing Phase Vigilance

Early Post-marketing Phase Vigilance (EPPV) was established in 2001. This unique system for newly-approved drug products refers to any safety assurance activities that are conducted within a period of 6 months just after marketing of a new drug. The MAH responsible for a new drug in the EPPV period is required to collect adverse drug reactions (ADRs) data from all medical institutions where the drug is used and to take safety measures as appropriate. The aim of EPPV is to promote the rational and appropriate use of drugs in medical treatments and to facilitate prompt action for the prevention of serious ADRs. EPPV is specified as a condition of product approval.

(As of August 31, 2023)

© Products for which EPPV was initiated after July 1, 2023

©: Products for which EPPV was initiated after July 1, 2023				
Nonproprietary name Brand name		Name of the MAH	Date of EPPV initiate	
0	Eculizumab (genetical recombination) Soliris for Intravenous Infusion 300 mg	Alexion Pharma Godo Kaisha	August 23, 2023	
0	Ruxolitinib phosphate ^{*1} Jakavi Tablets 5 mg, 10 mg	Novartis Pharma K.K.	August 23, 2023	
0	Coronavirus modified uridine RNA vaccine (SARS-CoV-2)	Moderna Japan Co., Ltd.	August 2, 2023	
<u> </u>	Spikevax Intramuscular Injection			
0	Purified pineapple stem juice	Kaken Pharmaceutical Co., Ltd.	August 1, 2023	
0	Foslevodopa/foscarbidopa hydrate Vyalev combination subcutaneous infusion	AbbVie GK	July 26, 2023	
0	Anti-human thymocyte immunoglobulin, equine Atgam Intravenous Infusion 250 mg	Pfizer Japan Inc.	July 24, 2023	
	Pneumococcal 15-valent conjugate vaccine, adsorbed (conjugate with a non toxic variant of diphtheria toxin) (serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F, 22F, 23F and 33F)*2 Vaxneuvance Aqueous Suspension Syringes	MSD K.K.	June 26, 2023	
	Febuxostat Feburic Tablets 10 mg, 20 mg, 40 mg	Teijin Pharma Limited.	June 26, 2023	
	Somapacitan (genetical recombination) *3 Sogroya Subcutaneous Injection 5 mg, 10 mg, 15 mg	Novo Nordisk Pharma Ltd.	June 26, 2023	

Nonproprietary name Brand name	Name of the MAH	Date of EPPV initiate
Mirikizumab (genetical recombination) Omvoh Intravenous Infusion 300 mg, Omvoh Subcutaneous Injection 100 mg Autoinjectors, Omvoh Subcutaneous Injection 100 mg Syringes	Eli Lilly Japan K.K.	June 21, 2023
Cholic acid Orphacol Capsules 50 mg	ReqMed Company, Ltd.	June 19, 2023
Vedolizumab (genetical recombination) Entyvio Pens for S.C. Injection 108 mg, Entyvio Syringes for S.C. Injection 108 mg	Takeda Pharmaceutical Company Limited.	June 19, 2023
Crisantaspase Erwinase for intramuscular injection 10000	Ohara Pharmaceutical Co., Ltd.	June 14, 2023
Tirzepatide Mounjaro Subcutaneous Injection Ateos, 7.5 mg Ateos, 10 mg Ateos, 12.5 mg Ateos, 15 mg Ateos	Eli Lilly Japan K.K.	June 12, 2023
Ropeginterferon alfa-2b (genetical recombination) Besremi Subcutaneous Injection Syringes 250 µg, 500 µg	PharmaEssentia Japan KK	June 1, 2023
Oxybutynin hydrochloride*4 Apohide Lotion 20%	Hisamitsu Pharmaceutical Co., Inc.	June 1, 2023
Avatrombopag maleate Doptelet tablets 20 mg	Swedish Orphan Biovitrum Japan Co., Ltd.	June 1, 2023
Pegvaliase (genetical recombination) Palynziq Subcutaneous Injection 2.5 mg, 10 mg, 20 mg	BioMarin Pharmaceutical Japan K.K.	May 24, 2023
Mifepristone/misoprostol Mefeego Pack	Linepharma KK	May 16, 2023
Treprostinil Treprost Inhalation Solution 1.74 mg	Mochida Pharmaceutical Co., Ltd.	May 16, 2023
Tirzepatide Mounjaro Subcutaneous Injection 2.5 mg Ateos, 5 mg Ateos	Eli Lilly Japan K.K.	April 18, 2023
Edaravone Radicut Ors 2.1%	Mitsubishi Tanabe Pharma Corporation	April 17, 2023
Donepezil Allydone Patches 27.5 mg, 55 mg	Teikoku Seiyaku Co., Ltd.	April 14, 2023
Pneumococcal 15-valent conjugate vaccine, adsorbed (conjugate with a non toxic variant of diphtheria toxin) (serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F, 22F, 23F and 33F)	MSD K.K.	April 10, 2023

Nonproprietary name Brand name	Name of the MAH	Date of EPPV initiate
Vaxneuvance Aqueous Suspension Syringes		
Isavuconazonium sulfate Cresemba Capsules 100 mg, Cresemba for i.v. infusion 200 mg	Asahi Kasei Pharma Corporation	April 6, 2023
Fostamatinib sodium hydrate Tavalisse Tablets 100 mg, 150 mg	Kissei Pharmaceutical Co., Ltd.	April 6, 2023
Cemiplimab (genetical recombination) Libtayo I.V. Infusion 350 mg	Sanofi K.K.	March 30, 2023
Tremelimumab (genetical recombination) Imjudo Injection 25 mg, 300 mg	AstraZeneca K.K.	March 15, 2023
Ferric derisomaltose MonoVer for I.V. Injection 500 mg, 1000 mg	Nippon Shinyaku Co., Ltd.	March 15, 2023
Coronavirus Modified Uridine RNA Vaccine (SARS-CoV-2)*5 Comirnaty intramuscular injection for 5 to 11 years old	Pfizer Japan Inc.	March 3, 2023

^{*1} Graft versus host disease after haematopoietic stem cell transplant (when steroids are not sufficiently effective)

^{*2} Prevention of invasive disease caused by *Streptococcus pneumoniae* (serotypes 1, 3, 4, 5, 6A, 6B, 7F, 9V, 14, 18C, 19A, 19F, 22F, 23F and 33F) in children

^{*3} Growth hormone-deficient short stature without epiphyseal closure

^{*4} Primary palmar hyperhidrosis

^{*5} Prevention of infectious disease caused by SARS-CoV-2