Pharmaceuticals and Medical Devices Safety Information

No. 397

Table of Contents

1.	Suspected Adverse Reactions to Influenza Vaccines in the	
	2021 Season	5
2.	Important Safety Information	10
	1. Roxadustat	
	2. Preparations containing hydrochlorothiazide12	
	3. Imatinib mesilate15	
3.	Revision of Precautions (No.337)	18
	Coronavirus modified uridine RNA vaccine (SARS-CoV-2)	
	(Comirnaty RTU intramuscular injection (Bivalent: Original/Omicron BA.1),	
	Comirnaty RTU intramuscular injection (Bivalent: Original/Omicron BA.4-5),	
	Spikevax Intramuscular Injection (Bivalent: Original/Omicron BA.1)) (and 12	
	others)18	
4.	List of Products Subject to	
	Farly Post-marketing Phase Vigilance	24

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) Medical Product Information web page (<u>https://www.pmda.go.jp/english/</u>) and on the MHLW website (<u>https://www.mhlw.go.jp/</u>, 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 MHLW and PMDA. Subscribing to the Medi-navi will allow you to receive this information on the day of its release.



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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.397

Pharmaceuticals and Medical Devices Safety Information

No. 397

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

Outline of Information 1

No.	Subject	Measures	Outline of Information	Page
1	Suspected Adverse Reactions to Influenza Vaccines in the 2021 Season		This section describes the status of instances of suspected adverse reactions to influenza vaccines reported from October 1, 2021 through March 31, 2022. Medical institutions are required to report to MHLW when they encounter symptoms that they decide meet the Suspected Adverse Reaction Reporting Criteria for influenza vaccines regardless of causality. Reports by medical institutions, together with those by MAHs, are compiled and evaluated by PMDA. For serious cases including patient mortalities, PMDA performs causality assessment and/or considers the necessity of safety measures in consultation with experts. Joint meetings of the Side Effect Subcommittee of the Immunization and Vaccine Section Meeting in the Health Science Council and the Subcommittee on Drug Safety of the Committee on Drug Safety in the Pharmaceutical Affairs and Food Sanitation Council are convened periodically for the purpose of investigating and reviewing these reports of suspected adverse reactions to influenza vaccines and to discuss the necessity of safety measures.	5
2	Important Safety Information	P C	Roxadustat (and 2 others): Regarding the revision of the Precautions of drugs in accordance with the Notification dated November 16, 2022, this section will present the details of important revisions as well as the case summary serving as the basis for these revisions.	10
3	Revision of Precautions (No.337)	Ρ	Coronavirus modified uridine RNA vaccine (SARS-CoV-2) (Comirnaty RTU intramuscular injection (Bivalent: Original/Omicron BA.1), Comirnaty RTU intramuscular injection (Bivalent: Original/Omicron BA.4-5), Spikevax Intramuscular Injection (Bivalent: Original/Omicron BA.1)) (and 12 others)	18
4	List of Products Subject to Early Post-marketing Phase Vigilance		List of products subject to Early Post- marketing Phase Vigilance as of October 31, 2022	24

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 medical and pharmaceutical providers.

If medical and pharmaceutical providers such as physicians, dentists, and pharmacists detect adverse reactions, infections associated with drugs or medical devices, or medical device adverse events, please report them to the Minister of Health, Labour and Welfare directly or through the marketing authorization holder. As medical and pharmaceutical providers, drugstore and pharmacy personnel are also required to report safety issues related to drugs and medical devices.

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

ADEM	Acute Disseminated Encephalomyelitis
ADR	Adverse Drug Reaction
ECMO	Extracorporeal Membrane Oxygenation
EPPV	Early Post-marketing Phase Vigilance
FiO ₂	Fraction of Inspiratory Oxygen
HSB	Health Service Bureau
MAH	Marketing Authorization Holder
MHLW	Ministry of Health, Labour and Welfare
pCO ₂	Partial Pressure of Carbon Dioxide
PEEP	Positive End-Expiratory Pressure
PMDA	Pharmaceuticals and Medical Devices Agency
PMD Act	Act on Securing Quality, Efficacy and Safety of Pharmaceuticals and Medical Devices
pO ₂	Partial Pressure of Oxygen
PSEHB	Pharmaceutical Safety and Environmental Health Bureau
PV Law	Preventive Vaccination Law
SOC	System Organ Class

Suspected Adverse Reactions to Influenza Vaccines in the 2021 Season

1. Introduction

This section describes the status of instances of suspected adverse reactions to influenza vaccines reported from October 1, 2021 through March 31, 2022 (hereinafter referred to as the "2021 season").

Medical institutions are required to report to MHLW when they encounter symptoms that they decide meet the Suspected Adverse Reaction Reporting Criteria for influenza vaccines regardless of causality. Reports by medical institutions, together with those by MAHs, are compiled and evaluated by PMDA. For serious cases including patient mortalities, PMDA performs causality assessment and/or considers the necessity of safety measures in consultation with experts.

Joint meetings of the Side Effect Subcommittee of the Immunization and Vaccine Section Meeting in the Health Science Council and the Subcommittee on Drug Safety of the Committee on Drug Safety in the Pharmaceutical Affairs and Food Sanitation Council (hereinafter referred to as the "Joint Meeting") are convened periodically for the purpose of investigating and reviewing these reports of suspected adverse reactions to influenza vaccines and to discuss the necessity of safety measures¹⁾².

2. Reports of Suspected Adverse Reactions to Influenza Vaccines (2021 season)

(1) Numbers and frequencies of suspected adverse reactions reported

Table 1 shows the numbers of reported suspected adverse reactions to the influenza vaccines and frequencies calculated from the estimated numbers of vaccinated persons based on the number of vaccines distributed to medical institutions.

persons	6				
	Reports by MAHs (serious reports)*		Reports	by medical instit	utions**
Estimated number of vaccinated persons (number of vaccinations)	Number of s reported (1	erious cases frequency) Number of patient mortalities reported	Number of reports (frequency)	Number of s reported (f	erious cases requency) Number of patient mortalities reported
51 946 849	16	3	77	34	4

 Table 1 Numbers of suspected adverse reactions reported and estimated number of vaccinated persons

* Reports by MAHs were of cases determined to be "serious" in accordance with Article 68-10-1 of the Act on Securing Quality, Efficacy and Safety of Pharmaceuticals and Medical Devices (PMD Act). Reports by MAHs may duplicate some cases reported by medical institutions, and duplicated cases were added up as reported by medical institutions.

(0.00015%)

(0.00007%)

^{**} Reports by medical institutions were submitted in accordance with Article 12-1 of the Preventive Vaccination Law (PV Law) or Article 68-10-2 of the PMD Act.

(2) Reports of suspected adverse reactions by sex and age group

(0.00001%)

(0.00003%)

The numbers of reported suspected adverse reactions to influenza vaccines are shown by sex and age group in Table 2 and Table 3, respectively.

(as of March

31, 2022)

(0.00001%)

Table 2 Number of reports by sex

Sex	Number of Reports by MAHs	Number of reports by medical institutions		
Male	9	35		
Female	5	42		
Unknown	2	0		
Total	16	77		

Table 3 Number of reports by age group

	Number of Reports by MAHs		Number of reports by medical institutions		
Number of se repo Age group		erious cases orted Number of patient mortalities reported	Number of reports	Number of s repo	erious cases orted Number of patient mortalities reported
0 - 9	3	0	37	18	0
10 - 19	0	0	7	3	0
20 - 29	0	0	4	1	0
30 - 39	0	0	3	0	0
40 - 49	1	0	3	1	0
50 - 59	1	0	3	1	0
60 - 69	0	0	6	1	0
70 - 79	3	1	5	3	2
80 or older	4	1	9	6	2
Unknown	4	1	0	0	0
Total	16	3	77	34	4

(3) Details of reported symptoms

Suspected adverse reactions to influenza vaccines reported during the 2021 season are outlined by System Organ Class (SOC) in the right-hand side columns of Table 4. There were no increases in the numbers and frequencies of adverse reactions reported compared with the 2020 season (October 1, 2020 to September 30, 2021).

A total of 7 cases of post-vaccination deaths were reported for this season. The assessment by experts determined that the causality between the vaccination and death could not be assessed due to lack of information for these cases.

A total of 3 cases (Note 1) of possible Guillain-Barré syndrome or acute disseminated encephalomyelitis (ADEM) were reported for this season. The assessment by experts determined that a causal relationship between the respective diseases and vaccination was reasonably possible.

A total of 9 cases (Note 2) were reported as possible anaphylaxis. Of these, 3 cases were assessed as Level 3 or higher anaphylaxis using the Brighton Criteria (including 3 serious cases). Regarding the number of reports from MAHs by manufacturing lot, there were no distinct concentrations of reports of anaphylaxis found on specific lots.

At the Joint Meeting held in July, 2022, it was concluded that there were no new concerns regarding safety of the vaccines, including other reported symptoms than anaphylaxis, with no safety measures such as revision of package inserts required at present but reporting of suspected adverse reactions and their details should be carefully monitored.

Note 1) Cases reported with the symptom name "Guillain-Barré syndrome" or "ADEM."

Note 2) Cases reported with the symptom name "anaphylactic reaction," "anaphylactic shock," "anaphylactoid reaction," or "anaphylactoid shock."

2021 seasons (by SOC)				
	2020 s	eason†	2021 se	eason ^{††}
SOC of symptom	Reports by MAHs	Reports by medical institutions (serious cases)	Reports by MAHs	Reports by medical institutions (serious cases)
Gastrointestinal disorders	8	9	1	7
General disorders and administration site conditions	38	26	5	23
Infections and infestations	4	16	1	4
Haepatobiliary disorders	8	4	2	2
Eye disorders	1	2	1	0
Musculoskeletal and connective tissue disorders	5	16	1	5
Blood and lymphatic system disorders	3	7	1	3
Vascular disorders	0	5	1	1
Respiratory, thoracic and mediastinal disorders	7	2	0	5
Ear and labyrinth disorders	1	1	0	0
Injury, poisoning and procedural complications	0	1	0	0
Cardiac disorders	4	3	0	2
Nervous system disorders	23	54	1	14
Renal and urinary disorders	12	5	3	7
Metabolic and nutritional disorders	2	2	1	0
Endocrine disorders	6	0	0	0
Skin and subcutaneous tissue disorders	11	18	3	3
Immune system disorders	10	9	1	8
Neoplasms benign, malignant and unspecified (incl cysts and polyps)	1	0	0	0
Investigations	6	2	3	3
Total	150	182	25	87

Table 4	Comparison of the number of suspected adverse reaction reports between the 2020 and
	2021 seasons (by SOC)

[†] Reported from October 1, 2020 to September 30, 2021

⁺⁺ Reported from October 1, 2021 to March 31, 2022

3. Future safety measures

As detailed in the Reporting Suspected Adverse Reactions for Routine Vaccination, etc.³⁾ notification, medical institutions are urged to promptly report when they encounter symptoms that they believe meet the Suspected Adverse Reaction Reporting Criteria even if the causality is unclear.

In addition to the conventional reporting by fax, electronic reporting is available through the

Pharmaceuticals and Medical Devices Safety Information No.397

website since April 1, 2021. [Report Reception Site (electronic report system)] https://www.pmda.go.jp/safety/reports/hcp/0002.html (only in Japanese)

MHLW/PMDA will continue their efforts to gather information concerning the safety of influenza vaccines including suspected adverse reaction reports, etc. and to implement safety measures based on such information. Continued cooperation is requested in alerting vaccine recipients to adverse reactions and reporting them when suspected.

[References]

 MHLW: Material 2-25 for the Side Effect Subcommittee of the Immunization and Vaccine Section Meeting in the Health Science Council (the 78th meeting) and the 2022 Subcommittee on Drug Safety of the Committee on Drug Safety in the Pharmaceutical Affairs and Food Sanitation Council (the 1st meeting) (Joint Meeting), Reports of Suspected Adverse Reactions to Influenza Vaccines

https://www.mhlw.go.jp/content/10601000/000936155.pdf (only in Japanese)

2) MHLW: Material 2-22 for the Side Effect Subcommittee of the Immunization and Vaccine Section Meeting in the Health Science Council (the 81st meeting) and the 2022 Subcommittee on Drug Safety of the Committee on Drug Safety in the Pharmaceutical Affairs and Food Sanitation Council (the 6th meeting) (Joint Meeting), Reports of Suspected Adverse Reactions to Influenza Vaccines

https://www.mhlw.go.jp/content/10601000/000962158.pdf (only in Japanese)

3) Partial Amendment of Reporting Suspected Adverse Reactions for Routine Vaccinations, etc. dated October 24, 2022, Joint HSB Notification No. 1024-5 and PSEHB Notification No.1024-1, by the Director-General of Health Service Bureau and by the Director-General of Pharmaceutical and Food Safety Bureau, Ministry of Health, Labor and Welfare https://www.mhlw.go.jp/bunya/kenkou/kekkaku-

kansenshou20/hukuhannou houkoku/kanrentuuti.html (only in Japanese)

Report form

https://www.mhlw.go.jp/bunya/kenkou/kekkakukansenshou20/hukuhannou_houkoku/dl/r04youshiki_02.pdf (only in Japanese)

Entry instructions

https://www.mhlw.go.jp/bunya/kenkou/kekkakukansenshou20/hukuhannou houkoku/dl/r04youshiki 03.pdf (only in Japanese)

Report entry application (National Institute of Infectious Diseases) <u>http://www.nih.go.jp/niid/ja/vaccine-j/6366-vaers-app.html (only in Japanese)</u> Reference: Suspected Adverse Reaction Reporting Criteria <Routine vaccination>

Symptoms	Time to onset after inoculation
Anaphylaxis	4 hours
Hepatic impairment	28 days
Interstitial pneumonia	28 days
Acute disseminated encephalomyelitis (ADEM)	28 days
Acute generalised exanthematous pustulosis (AGEP)	28 days
Guillain-Barré syndrome	28 days
Convulsion	7 days
Vasculitis	28 days
Thrombocytopenic purpura	28 days
Optic neuritis	28 days
Myelitis	28 days
Asthmatic attack	24 hours
Nephrotic syndrome	28 days
Encephalitis or encephalopathy	28 days
Oculomucocutaneous syndrome	28 days
Other reactions (symptoms suspected to be associated with the vaccination and either (1) requiring hospital admission or (2) resulting in, or associated with a risk of death or persistent incapacity)	Time frame in which the event was considered by the physician to be associated with the vaccination

Except for "other reactions," any event occurring within the specified time frame is subject to mandatory reporting to MHLW regardless of causality according to the PV Law and related rules.

<Voluntary vaccination>

Adverse reactions or infections associated with voluntary vaccinations should be reported when reporting is considered necessary to prevent the occurrence and spread of health hazards. Refer to the following for specific cases subject to reporting. Adverse reactions and infections for which causality with vaccinations is unclear may also be subject to reporting.

- (1) Death
- (2) Disability
- (3) Events that may result in death
- (4) Events that may result in disability
- (5) Symptoms that require admission or prolonged hospitalization at medical institutions for treatment [excluding events in (3) and (4)]
- (6) Serious events corresponding to those in items (1) to (5)
- (7) Congenital diseases or anomalies in the next generation
- (8) Onset of infections suspected of being caused by use of the applicable pharmaceutical
- (9) Onset of unknown events which are not mild and could not be predicted based on the package insert, other than those listed in (1) to (8)

2

Important Safety Information

Regarding the revision of the Precautions of package inserts of drugs in accordance with the Notification dated November 16, 2022, this section will present the details of important revisions as well as the case summary serving as the basis for these revisions.

Roxadustat

Brand name (name of company)	Evrenzo Tablets 20 mg, 50 mg, 100 mg (Astellas Pharma Inc.)
Therapeutic category	Agents affecting metabolism, n.e.c. (not elsewhere classified)
Indications	Nephrogenic anaemia

PRECAUTIONS (revised language is underlined)

[Under new instructions]

8. IMPORTANT PRECAUTIONS (newly added)	<u>Central hypothyroidism may occur during administration of this drug.</u> <u>Cases in which central hypothyroidism developed approximately 2</u> <u>weeks after initiation of administration have been reported. Patients</u> <u>should be carefully monitored through methods including periodical</u> <u>thyroid function tests (measurement of thyroid-stimulating hormone</u> <u>(TSH), free T3, free T4) during treatment with this drug.</u>
11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added)	<u>Central hypothyroidism</u> <u>Central hypothyroidism, in which the blood TSH level is within the</u> <u>normal range or low, may occur. If symptoms or signs appear,</u> <u>appropriate measures should be taken such as discontinuation of this</u> <u>drug and administration of thyroid hormone preparations as necessary.</u>
Reference information	Number of cases (for which a causal relationship between the drug and event is reasonably possible) reported during the previous approximately 3-year period Cases involving central hypothyroidism: 9 (No patient mortalities) Number of patients using the drug as estimated by the MAH during the previous 1-year period: Approximately 42 000 Japanese Market launch: November 2019

		Patient			Dailv dose	/				Adverse re	eaction		
o.	Sex/ age	Reas (com	on for use plication)	e a	dministration	, on		С	linica	l course a	nd treatm	ent	
1	Age Male 80s	Nephroge (chronic re hypothyro secondary) hyperpara carnitine o hyperlipid chronic ga chronic ca large intes angiodysp deficiency cutaneous insomnia, constipatio	nic anaer enal failur idism, / thyroidism deficiency aemia, astritis, ardiac failu stine olasia, iron / anaemia s pruritus, chronic on)	nia e, n, , ure, n ,	100 mg 22 days	Hyp Befc adm Day adm 12 d adm (day disc 2 da disc 2 da disc 5 da disc 6 da disc 7 da disc 8 da disc 33 d disc 8 da	othyroidi ore inistration 1 of inistration lays after inistration alays after inistration ontinuatio ays after ontinuatio ays after ontinuatio ays after ontinuatio ays after ontinuatio ays after ontinuatio ays after ontinuatio lays after ontinuatio lays after ontinuatio lays after ontinuatio lays after ontinuatio lays after ontinuatio lays after	n) n n n n	The sodi hypp Dari µg/v mg, the Thy deci: (FT, The was of d disc Tota reve hop Tota reve hop Tota for a Adn hydd hydd hydd the Tota Tota reve Soli Tota Tota Tota Tota Tota Tota Tota Tota	patient wi ium hydra othyroidisi bepoetin a veek) was 3 times a dialysis per roid stimu lined to 0. 4) to 0.56 othyroidisi patient's ght gain wi noted on ialysis. Ad ontinued. al bilirubin eated biliar atic impair atic impair atic impair atic impair atic impair atic inpair atic increased patient's airment re ravation o overed. patient wi	as treated te (25 µg) n. alfa (100 switched week) for rriod. lation horr 12 µIU/mL ng/dL. Ag n develop inappeten ere noted the dialyz ministratio was eleva y sludge. ment dev was furth hardly eat was adm o and a de o of atorva urinol, fex , esomepri iscontinue tic impairr evothyroxi d (37.5 µg appetite ir s. He reco jaundice a covered. f the patie	with levoid due to to roxadu renal ana mone (TSI , and free gravation ded. ce and de . Also, yell cer at the con of roxad ated, and a Jaundice eloped. er elevate ated, and a Jaundice eloped. er elevate tailed exat statin calc ofenadine ed since d nent was ne sodium). mproved, a overed fro and hepati ent's hypol	thyroxine stat (100 emia in H) rapidly thyroxin of creased lowing completic dustat wa a CT sca and d, and the hospita mination clum gnesium rug- suspecte hydrate and he a m c thyroidisi
	Laborato	ory test v	alue			disc	ontinuatio	n	1103	pital.			
			23 days before admin.	2 days before admin.	12 days after admin.	19 days after admin.	2 days after discon- tinuation	5 dis dis tinu	days fter scon- iation	12 days after discon- tinuation	19 days after discon- tinuation	33 days after discon- tinuation	47 days after discon- tinuatio
	TSH (µIL	J/mL)	14.85	_	0.12	0.10	—		-	—	5.73	_	3.67
	FT4 (ng/	dL)	0.94	_	0.56	0.39	-		-		0.83		0.83
	Hb (g/dL)	8.4	9.2	11.0	12.4	12.6	14	.2	13.7	12.9	11.2	11.3
	T-BiL (m	g/dL)	_	0.67	-	-	3.73	4.	15	2.04	_	1.18	_
	D-BiL (m	ig/dL)	_	_	-	-	2.71	3.	11	1.15	_	_	—
	AST (IU/	L)	_	33	-	_	32	3	6	38	_	18	_
		,	_	20	_	_	20	2	0	25	_	13	_
		-/	_	270	<u> </u>	_	210	2	14	200	_	222	_
			_	510 65	_	_	310	3	0	290	_	502	

2

Preparations containing hydrochlorothiazide

[1] hydrochlorothiazide

[2] Iosartan potassium/hydrochlorothiazide[3] candesartan cilexetil/hydrochlorothiazide

[4] valsartan/hydrochlorothiazide

Brand name (name of company)	 [1] Hydrochlorothiazide Tablets 12.5 mg "Towa," Tablets 25 mg "Towa," Hydrochlorothiazide OD Tablets 12.5 mg "Towa" (Towa Pharmaceutical Co., Ltd.) [2] Preminent Tablets LD, HD (Organon K.K.), and the others [3] Ecard Combination Tablets LD, HD (Teva Takeda Yakuhin Ltd.), and the others [4] Co-Dio combination Tablets MD, EX (Novartis Pharma K.K.), and the others
Therapeutic category	Diuretics, antihypertensives
Indications	[1] Hypertension (essential, renal, etc.), malignant hypertension, cardiac induced oedema (congestive heart failure), renal induced oedema, hepatic induced oedema, premenstrual tension, oedema caused by drugs (corticosteroids, phenylbutazone, etc.) [2]-[4] Hypertension

PRECAUTIONS (revised language is underlined)

[Under old instructions]

Adverse reactions	Interstitial pneumonia, pulmonary oedema, acute respiratory distress
Adverse Reactions	syndrome: Interstitial pneumonia, pulmonary oedema may occur. If any abnormalities are observed, administration of this drug should be discontinued and appropriate measures should be taken. In addition, it
	has been reported that acute respiratory distress syndrome developed
	within minutes to hours after taking hydrochlorothiazide.
[Under new instructions]	
11. ADVERSE	Interstitial pneumonia, pulmonary oedema, acute respiratory distress
REACTIONS	syndrome
11.1 Clinically	Interstitial pneumonia, pulmonary oedema may occur. In addition, it
Significant Adverse	has been reported that acute respiratory distress syndrome developed
Reactions	within minutes to hours after taking hydrochlorothiazide.
Reference information	Number of cases (for which a causal relationship between the drug
	and event is reasonably possible) reported during the previous
	approximately 3-year period
	[1]-[4] Cases involving acute respiratory distress syndrome: 0
	Number of patients using the drug as estimated by the MAH during
	the previous 1-year period:
	[1] Approximately 57 040
	[2] Approximately 63 000
	[3] Approximately 36 711
	[4] Combination Tablets MD: Approximately 8 568, Combination
	Tablets EX: Approximately 24 452
	Japanese market launch:
	[1] Tablets 12.5 mg: June 2012, Tablets 25 mg: April 1978, OD
	Tablets 12.5 mg: December 2013
	[2] Tablets LD: December 2006, Tablets HD: April 2014
	[3] March 2009
	[4] March 2009
Case summary	

Pharmaceuticals and Medical Devices Safety Information No.397

		Patient	Dailv dose/		Adverse reaction
No.	Sex/ age	Reason for use (complication)	administration duration	(Clinical course and treatment
1	Male	Hypertension	unknown	Acute respirator	y distress syndrome
	50s	(unknown)	(unknown)	4 years before 2 years before	The patient was additionally administered with hydrochlorothiazide for hypertension. On the same day, nausea and shortness of breath developed. He was admitted to another hospital and intubated. A chest X- ray revealed white turbidity in bilateral lung fields, and he was diagnosed with acute respiratory distress syndrome. For 5 days, he remained intubated and was treated for <i>Streptococcus pneumoniae</i> . Later, he was discharged from the hospital. Antihypertensive drug (combination drug: Name of drug is unknown.) was administered. Chills and cyanosis developed after the administration, and he was admitted to the intensive care unit in another hospital. A chest X-ray revealed diffuse infiltration in bilateral lung fields, for which a broad-spectrum antibiotic was administered. He was discharged from the bospital 3 days later
				Day 1 of administration	Hydrochlorothiazide was administered for blood pressure control.
				30 minutes after administration	The patient felt poorly and developed progressive shortness of breath. He was transported to another hospital by ambulance. Progressive dyspnoea, hypoxaemia, and hypotension were observed, and he was orally intubated. Pulse oximetry showed the value ranging from 60 to 70%, although the fraction of inspiratory oxygen (FiO ₂) was 100% and positive end-expiratory pressure (PEEP) was high. Pulmonary oedema was suspected, and administration of norepinephrine and intravenous furosemide was initiated. The patient was transferred to the emergency department of this hospital by an air ambulance. Cardiac arrest occurred while in the air ambulance, but he was resuscitated. Immediately after emergency transportation, heart rate was 136 beats/min, blood pressure 125/90 mmHg, and pulse oximetry 79%. Sinus tachycardia accompanied by non-specific ST segment and T wave inversion was observed. The value of arterial blood gas was 7.04 for pH, 82 mmHg for partial pressure of carbon dioxide (pCO ₂), and 65 mmHg for partial pressure of oxygen (pO ₂). Norepinephrine, vasopressin, epinephrine and calcium chloride were administrated, but progressive and refractory hypotension developed. Although FiO ₂ was 100% and PEEP was high, pulse oximetry showed the value ranging from 45 to 82%. The value of arterial blood gas was 7.05 for pH, 47 mmHg for pCO ₂ , and 49 mmHg for pO ₂ , indicating metabolic acidosis. Within 15 minutes after initiating extracorporeal membrane oxygenation (ECMO), pulse oximetry showed a value greater than 88%. The value of arterial blood gas was 7.20 for pH. 48 mmHe for

|--|

3 Imatinib mesilate

Brand name (name of company)	Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others
Therapeutic category	Other antitumor agents
Indications	 Chronic myeloid leukaemia KIT (CD117)-positive gastrointestinal stromal tumor Philadelphia chromosome-positive acute lymphocytic leukaemia The following FIP-1-like-1-platelet-derived growth factor receptor alpha (FIP1L1-PDGFRα)-positive diseases: Hypereosinophilic syndrome, chronic eosinophilic leukaemia

PRECAUTIONS (revised language is underlined)

[Under old instructions]	
Adverse Reactions Clinically Significant Adverse Reactions (newly added)	<u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u>
[Under new instructions]	
11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added)	<u>Thrombotic microangiopathy</u> If anaemia accompanied by schizocytes, thrombocytopenia, renal impairment, etc. are observed, administration of this drug should be discontinued, and appropriate measures should be taken.
Reference information	Number of cases (for which a causal relationship between the drug and event is reasonably possible) reported during the previous approximately 3-year period Cases involving thrombotic microangiopathy: 0 Number of patients using the drug as estimated by the MAH during the previous 1-year period: Approximately 5 300 Japanese market launch: July 2005

		Patient	Daily dose/		Adverse reaction
No.	Sex/ age	Reason for use (complication)	administration duration	(Clinical course and treatment
1	Male 30s	Chronic blast crisis in myelogenous	400 mg 41 days	Thrombotic micro	oangiopathy The patient visited the hospital after a
		leukaemia (none)	↓ 600 mg 25 days	Approximately 3 years ago Approximately 7 months before administration Day 1 of administration Day 42 of administration Day 62 of administration (Day of discontinuation) 1 day after discontinuation 2 days after discontinuation 3 days after discontinuation	 The patient visited the hospital after a medical checkup revealed an increased white blood cell count. He was diagnosed with chronic myeloid leukaemia (chronic phase). He started taking imatinib mesilate, but discontinued it at his own discretion. The patient was hospitalized for lymphoid crisis. Chronic myeloid leukaemia was in a chronic phase after chemotherapy, but returned to an acute phase. Administration of imatinib mesilate 400 mg was initiated. The dose of imatinib mesilate was increased to 600 mg. The patient was hospitalized for cord blood transplant. BUN 12.3 mg/dL, Cr 0.78 mg/dL. The final dose of imatinib mesilate was administered. Acute renal failure developed. The patient complained of left-sided abdominal pain, intramuscular pentazocine 15 mg and intravenous butylscopolamine 1/2 ampule were administered. Abdominal Utrasonography showed a smalintestine enlargement. Ileus was suspected. An abdominal CT was performed (simple + contrast). A simple CT revealed suspected inflammation of bilateral kidneys. There were no other findings that could have caused the abdominal pain. According to the patient, he had not urinate at all since early morning. He did not urinate at all since early morning. He did not urinate at all since early morning. He did not urinate at all since early morning. He did not urinate at the same day, BUN rose to 18.0 mg/dL and Cr to 2.35 mg/dL. He continued to receive supplemental fluids, but was completely anuric. Intravenous furosemide 20 mg, 40 mg, and 100 mg were administered approximately every 3 hours from the night of the same day to the next morning. BUN rose to 28.4 mg/dL and Cr to 4.68 mg/dL. Marked generalised oedema was noted. Haemodialysis was performed, and 1 800 mL of water was removed. The patient's anuria persisted thereafter. BUN rose to 42.3 mg/dL, and Cr to 6.85 mg/dL. Anuria persisted thereafter. BUN rose to 42.3 mg/dL

Pharmaceuticals and Medical Devices Safety Information No.397

					5 days discor 6 days	s after ntinuation s after	BUN BUN	20.6 mg/c 13.2 mg/c	dL, Cr 1.1	8 mg/dL 5 mg/dL	
					6 days discor 13 day discor	s after itinuation ys after itinuation	BUN Acute A rer Siter Diagu throm stage Findi glom The r prese struc capill glom unstr or ne as to that i disso Othe segm appro Also, base creso and E necro glom Thero Also, base creso and E necro glom	13.2 mg/d e renal fail hal biopsy hame: Kid hostic resu- hotic mic e, kidney r ngs: 2 ren eruli most char- erus of ac tures by N aries of a eruli. The uctured, a gative. Ma occlude t open in m t was a m lving. r changes hental mes poximately mesangiu there wel ment men eent forma Bowman's bosis of the eruli show hous form a. No vas observed. ugh focal eruloneph ential diag ad on the t	dL, Cr 0.8 lure resolv was perfo ney ults: Comp roangiopa heedle bio had needle acteristic of idophilic, Masson sta pproximat y were am and PAS w ost of thes he capillal any cases icrothroml sincluded sangial ce 1/3 of gloo m substra re no thick horane, no tion of the capsule, capillary v ed mild cl ation. changes soulitis or the soulitis or the soulitis or the mesangic	b mg/dL yed. yed. yed. yed. yed. patible with thy in hea psy biopsies, change wa reddish de aining in the ely half of yed is that is was slightly is e did not ye did not is high bus that is mild and Il proliferation and no fib wall. General and no fib meruliand thrombus proliferation thrombus phasis sha nilic change	h lling 23 as the ebris-like he the and y positive go so far he lumen ly likely tion in ere was ation. he ns or ar tuft rinoid erally, the acept for the formation ve cted to a nould be les.
Laborator	ry test va	alue									
	9 days before admin.	Day 1 of admin.	Day 41 of admin.	Day 62 of admin.	1 day after discon- tinuation	2 days after discon- tinuation	3 days after discon- tinuation	4 days after discon- tinuation	5 days after discon- tinuation	6 days after discon- tinuation	14 days after discon- tinuation
PLT (x10 ⁴ /mm ³)	5.0	18.6	10.9	13.5	11.3	11.9	14.1	14.4	13.5	13.0	15.0
Hb (g/dL)	10.3	10.1	11.8	8.6	8.7	8.3	8.4	7.6	6.9	7.0	9.4
LDH (IU/L)	266	284	383	308	334	450	444	362	-	278	280
BUN (mg/dL)	14.1	9.5	19.3	12.3	18.0	28.4	42.3	47.5	20.6	13.2	14.6
(IIIg/uL)											
Cr (mg/dL)	0.65	0.69	0.97	0.78	2.35	4.68	6.85	4.48	1.18	0.85	0.93

3 Revision of Precautions (No.337)

This section presents details of revisions to the Precautions and brand names of drugs that have been revised in accordance with the Notifications dated October 19, November 16, 2022.

1 Vaccines Coronavirus m (Comirnaty RT Original/Omicr (Bivalent: Origi Spikevax Intrai BA 1))	odified uridine RNA vaccine (SARS-CoV-2) U intramuscular injection (Bivalent: on BA.1), Comirnaty RTU intramuscular injection inal/Omicron BA.4-5), muscular Injection (Bivalent: Original/Omicron
Brand name	Comirnaty RTU intramuscular injection (Pfizer Japan Inc.),
[Under new instructions] 7. PRECAUTIONS CONCERNING DOSAGE AND ADMINISTRATION	Spikevax Intramuscular Injection (Moderna Japan Co., Ltd.) Timing of vaccination The booster dose may be administered at least <u>3</u> months after receiving the previous SARS-CoV-2 vaccine.
2 Vaccines Coronavirus m (Comirnaty intr Brand name [Under new instructions] 7. PRECAUTIONS CONCERNING DOSAGE AND ADMINISTRATION	odified uridine RNA vaccine (SARS-CoV-2) amuscular injection (Monovalent: Original)) Comirnaty intramuscular injection (Pfizer Japan Inc.) Individuals who receive vaccinations Individuals 12 years of age and older who have previously received <u>SARS-CoV-2 vaccines as primary series or a booster dose/doses</u> . The necessity of a booster dose should be judged based on the benefit/risk balance, the prevalence status of SARS-CoV-2, and the characteristics of each person. Timing of vaccination The <u>booster</u> dose may be administered at least <u>3</u> months after <u>receiving the previous SARS-CoV-2 vaccine</u> . (deleted) The effectiveness and safety on the booster dose of this vaccine in people who have received SARS-CoV-2 vaccines <u>other than this</u> vaccine have not been established.
3 Vaccines Coronavirus m (Spikevax Intra	odified uridine RNA vaccine (SARS-CoV-2) muscular Injection (Monovalent: Original))
Brand name	Spikevax intramuscular injection (Moderna Japan Co., Ltd.)

Brand name [Under new instructions] 7. PRECAUTIONS CONCERNING DOSAGE AND ADMINISTRATION

Individuals who receive vaccinations Individuals 18 years of age and older <u>who have previously received</u> <u>SARS-CoV-2 vaccines as primary series or a booster dose/doses.</u> The necessity of a booster dose should be judged based on the benefit/risk balance, the prevalence status of SARS-CoV-2, and the characteristics

Pharmaceuticals and Medical Devices Safety Information No.397

	of each person.
	Timing of vaccination
	The <u>booster</u> dose may be administered at least <u>3</u> months after <u>receiving</u>
	the previous SARS-CoV-2 vaccine.
	(deleted) The effectiveness and safety on the booster dose of this vaccine in
	people who have received SARS-CoV-2 vaccines other than this
	vaccine have not been established.
Divertice antibymart	
4 Diureucs, anunyperio	
Hydrochloroth	liazioe
Brand name	Hydrochlorothlazide Tablets 12.5 mg "Towa," Tablets 25 mg "Towa," Hydrochlorothlazide OD Tablete 12.5 mg "Towa," (Towa Pharmacoutical
	Co Itd)
[Under old instructions]	
Adverse Reactions	Interstitial pneumonia, pulmonary oedema <u>, acute respiratory distress</u>
Clinically Significant	syndrome:
Adverse Reactions	Interstitial pneumonia, pulmonary oedema may occur. If any
	abnormalities are observed, administration of this drug should be
	has been reported that acute respiratory distress syndrome developed
	within minutes to hours after taking hydrochlorothiazide.
[Under new instructions]	
11. ADVERSE	Interstitial pneumonia, pulmonary oedema, acute respiratory distress
REACTIONS	syndrome
11.1 Clinically	Interstitial pneumonia, pulmonary oedema may occur. In addition, it
Reactions	within minutes to hours after taking hydrochlorothiazide
5 Antihypertensives	
[1] Candesarta	in cilexetii/nydrochlorothlazide
[2] Valsartan/h	ydrochlorothiazide
Brand name	[1] Ecard Combination Tablets LD, HD (Teva Takeda Yakuhin Ltd.), and
	Ine others
	others
[Under old instructions]	
Adverse Reactions	Pulmonary oedema, acute respiratory distress syndrome:
Clinically Significant	Pulmonary oedema may occur. Patients should be monitored carefully.
Adverse Reactions	If any abnormalities are observed, administration of this drug should
	pe discontinued and appropriate measures should be taken
	immediately. In addition, it has been reported that acute respiratory
	immediately. In addition, it has been reported that acute respiratory distress syndrome developed within minutes to hours after taking
	immediately. In addition, it has been reported that acute respiratory distress syndrome developed within minutes to hours after taking hydrochlorothiazide.
[Under new instructions]	immediately. <u>In addition, it has been reported that acute respiratory</u> <u>distress syndrome developed within minutes to hours after taking</u> <u>hydrochlorothiazide.</u>
[Under new instructions] 11. ADVERSE	immediately. In addition, it has been reported that acute respiratory distress syndrome developed within minutes to hours after taking hydrochlorothiazide.
[Under new instructions] 11. ADVERSE REACTIONS	immediately. <u>In addition, it has been reported that acute respiratory</u> <u>distress syndrome developed within minutes to hours after taking</u> <u>hydrochlorothiazide.</u> Pulmonary oedema <u>, acute respiratory distress syndrome</u>
[Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Advorse	 immediately. <u>In addition, it has been reported that acute respiratory</u> <u>distress syndrome developed within minutes to hours after taking</u> <u>hydrochlorothiazide.</u> Pulmonary oedema. <u>acute respiratory distress syndrome</u> <u>Pulmonary oedema may occur. In addition, it has been reported that</u> <u>acute respiratory distress syndrome developed within minutes to hours</u>
[Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions	 immediately. <u>In addition, it has been reported that acute respiratory</u> <u>distress syndrome developed within minutes to hours after taking</u> <u>hydrochlorothiazide.</u> Pulmonary oedema<u>, acute respiratory distress syndrome</u> <u>Pulmonary oedema may occur. In addition, it has been reported that</u> <u>acute respiratory distress syndrome developed within minutes to hours</u> <u>after taking hydrochlorothiazide.</u>

6 Antihypertensives

Losartan potassium/hydrochlorothiazide d name Preminent Tablets LD, HD (Organon K.K.), and the others Brand name

[Under old instructions]

Pharmaceuticals and Medical Devices Safety Information No.397

Adverse Reactions Clinically Significant Adverse Reactions [Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions	Interstitial pneumonia, pulmonary oedema, acute respiratory distress syndrome: Interstitial pneumonia, pulmonary oedema 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 immediately. In addition, it has been reported that acute respiratory distress syndrome developed within minutes to hours after taking hydrochlorothiazide. Interstitial pneumonia, pulmonary oedema, acute respiratory distress syndrome Interstitial pneumonia, pulmonary oedema may occur. In addition, it has been reported that acute respiratory distress syndrome developed within minutes to hours after taking hydrochlorothiazide.
7 Agents affecting met	abolism, n.e.c. (not elsewhere classified)
Roxadustat Brand name [Under new instructions] 8. IMPORTANT PRECAUTIONS (newly added)	Evrenzo Tablets 20 mg, 50 mg, 100 mg (Astellas Pharma Inc.) <u>Central hypothyroidism may occur during administration of this drug.</u> <u>Cases in which central hypothyroidism developed approximately 2</u> <u>weeks after initiation of administration have been reported. Patients</u> <u>should be carefully monitored through methods including periodical</u> <u>thyroid function tests (measurement of thyroid-stimulating hormone</u> (TSH), free T3, free T4) during treatment with this drug.
11. ADVERSE	Central hypothyroidism
11.1 Clinically	Central hypothyroidism, in which the blood TSH level is within the
Cignificant Advarga	normal range or low, may occur. If symptoms or signs appear,
Significant Adverse	appropriate measures should be taken such as discontinuation of this
Reactions (newly added)	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary.
Reactions (newly added)	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary.
Reactions (newly added) 8 Other antitumor age	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary.
Reactions (newly added) Other antitumor age Imatinib mesila Brand name	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. nts ate Glivec Tablets 100 mg (Novartis Pharma K K), and the others
Reactions (newly added) 8 Other antitumor agen Imatinib mesile Brand name [Under old instructions]	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others
Reactions (newly added) Other antitumor age Imatinib mesila Brand name [Under old instructions] Adverse Reactions	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u>
Reactions (newly added) Other antitumor agen Imatinib mesila Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> schizocutes thrombocutopenia renal impairment etc. are observed
Reactions (newly added) Other antitumor ager Imatinib mesile Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions (newly added)	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> administration of this drug should be discontinued, and appropriate
Reactions (newly added) Other antitumor agen Imatinib mesila Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions (newly added)	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u>
Reactions (newly added) Other antitumor agen Imatinib mesila Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions (newly added) [Under new instructions]	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u>
Reactions (newly added) Other antitumor agen Imatinib mesila Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions (newly added) [Under new instructions] 11. ADVERSE REACTIONS	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u> Thrombotic microangiopathy
Reactions (newly added) Other antitumor agen Imatinib mesila Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions (newly added) [Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u> <u>Thrombotic microangiopathy</u> <u>If anaemia accompanied by schizocytes, thrombocytopenia, renal</u>
Reactions (newly added) Other antitumor agen Imatinib mesili Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions (newly added) [Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u> <u>Thrombotic microangiopathy</u> <u>If anaemia accompanied by schizocytes, thrombocytopenia, renal</u> <u>impairment, etc. are observed, administration of this drug should be</u> discontinued and appropriate measures should be taken
Reactions (newly added) Other antitumor agen Imatinib mesila Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions (newly added) [Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added)	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u> <u>Thrombotic microangiopathy</u> <u>If anaemia accompanied by schizocytes, thrombocytopenia, renal</u> <u>impairment, etc. are observed, administration of this drug should be</u> <u>discontinued, and appropriate measures should be taken.</u>
Reactions (newly added) Other antitumor agen Imatinib mesili Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions (newly added) [Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added) 9 Antibiotic preparation	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u> <u>Thrombotic microangiopathy</u> <u>If anaemia accompanied by schizocytes, thrombocytopenia, renal</u> <u>impairment, etc. are observed, administration of this drug should be</u> <u>discontinued, and appropriate measures should be taken.</u>
Significant Adverse Reactions (newly added) 8 Other antitumor ager Imatinib mesili Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions Clinically Significant Adverse Reactions (newly added) [Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added) 9 Antibiotic preparation Amoxicillin hy	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u> <u>Thrombotic microangiopathy</u> <u>If anaemia accompanied by schizocytes, thrombocytopenia, renal</u> <u>impairment, etc. are observed, administration of this drug should be</u> <u>discontinued, and appropriate measures should be taken.</u>
Significant Adverse Reactions (newly added) 8 Other antitumor ager Imatinib mesilis Brand name [Under old instructions] Adverse Reactions Clinically Significant Adverse Reactions Clinically Significant Adverse Reactions (newly added) [Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added) 9 Antibiotic preparation Amoxicillin hy Brand name	appropriate measures should be taken such as discontinuation of this drug and administration of thyroid hormone preparations as necessary. Ints ate Glivec Tablets 100 mg (Novartis Pharma K.K.), and the others <u>Thrombotic microangiopathy:</u> <u>Thrombotic microangiopathy may occur. If anaemia accompanied by</u> <u>schizocytes, thrombocytopenia, renal impairment, etc. are observed,</u> <u>administration of this drug should be discontinued, and appropriate</u> <u>measures should be taken.</u> <u>Thrombotic microangiopathy</u> <u>If anaemia accompanied by schizocytes, thrombocytopenia, renal</u> <u>impairment, etc. are observed, administration of this drug should be</u> <u>discontinued, and appropriate measures should be taken.</u> Ins acting mainly on gram-positive and gram-negative bacteria drate Sawacillin Capsules 125, 250, Sawacillin Fine Granules 10%, Sawacillin Tablets 250 (LTL Pharma Co., Ltd), Pasetocin Capsules 125, Pasetocin Fine Granules 10% (Sandoz Pharma K.K.), and the others

[Under old instructions]				
Important Precautions	No methods are currently available for predicting onset	<u>of</u> shock <u>,</u>		
	anaphylaxis, or acute coronary syndrome accompanying	<u>g allergic</u>		
	reaction with reasonable certainty. A thorough medical i	nterview should		
	be conducted regarding patient's medical history of the	<u>se events, etc.</u>		
	antibiotics was checked	Jry of allergy to		
Adverse Reactions	Acute coronary syndrome accompanying allergic reacti	on:		
Clinically Significant	Acute coronary syndrome accompanying allergic reacti	on may occur.		
Adverse Reactions	Patients should be carefully monitored. If any abnormal	ities are		
(newly added)	observed, administration of this drug should be disconti	nued and		
	appropriate measures should be taken.			
	No motheds are surrently systlable for predicting opent	of shock		
PRECAUTIONS	anaphylaxis or acute coronary syndrome accompanyin	<u>or</u> shock <u>.</u> Ig allergic		
(newly added)	reaction with reasonable certainty. A thorough medical i	nterview should		
	be conducted regarding patient's medical history of the	<u>se events, etc.</u>		
	in advance. In addition, it should be ensured that a histe	ory of allergy to		
	antibiotics was checked.			
11. ADVERSE				
11 1 Clinically				
Significant Adverse	Acute coronary syndrome accompanying allergic reacti	<u>on</u>		
Reactions				
(newly added)				
10 Antibiotic preparation	s acting mainly on gram-positive and gram-negative bac	teria		
Potassium clay	ulanate/amoxicillin hvdrate			
Brand name	Augmentin Combination Tablets 125SS, 250RS, Clavar	nox		
	Combination Dry Syrup for Pediatric (GlaxoSmithKline	K.K.)		
[Under new instructions]				
8. IMPORTANT	No methods are currently available for predicting onset	<u>of</u> shock <u>,</u>		
PRECAUTIONS	anaphylaxis, or acute coronary syndrome accompanyin	i <u>g allergic</u> storviow should		
	be conducted regarding patient's medical history of the	se events etc		
	in advance. In addition, it should be ensured that a histo	ory of allergy to		
	antibiotics was checked.			
11. ADVERSE				
REACTIONS				
11.1 Clinically	Acute coronary syndrome accompanying allergic reacti	<u>on</u>		
Reactions				
(newly added)				
11 Other antibiotic prepa	nalions fumerate/americillin hydrate/alerithror	nvoin		
	fumarale/amoxicillin hydrale/clantinoi			
[2] vonoprazan	tumarate/amoxicillin nydrate/metronida	azole		
Brand name	[1] vonosap Pack 400, 800 (Takeda Pharmaceutical Co	ompany		
	[2] Vonopion Pack (Takeda Pharmaceutical Company I	imited)		
[Under old instructions]				
Important Precautions	(Amoxicillin hydrate)			
-	No methods are currently available for predicting onset	<u>of</u> shock <u>,</u>		
	anaphylaxis, or acute coronary syndrome accompanyin	<u>g allergic</u>		
	reaction with reasonable certainty. A thorough medical i	nterview should		
Pharmaceuticals and Medical Devic Safety Information No 397	2 8	December 2022		
	- 21 -			

	in advance. In addition, it should be ensured that a history of allergy to		
	antibiotics was checked.		
Adverse Reactions	(Amoxicillin hydrate)		
Clinically Significant	Acute coronary syndrome accompanying allergic reaction:		
Adverse Reactions	Acute coronary syndrome accompanying allergic reaction may occur.		
(newly added)	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	<amoxicillin hydrate=""></amoxicillin>		
PRECAUTIONS	No methods are currently available for predicting onset of shock,		
	anaphylaxis, or acute coronary syndrome accompanying allergic		
	reaction with reasonable certainty. A thorough medical interview should		
	be conducted regarding patient's medical history of these events, etc.		
	in advance. In addition, it should be ensured that a history of allergy to		
	antibiotics was checked.		
11. ADVERSE			
REACTIONS			
11.1 Clinically	<amoxicillin hydrate=""></amoxicillin>		
Significant Adverse	Acute coronary syndrome accompanying allergic reaction		
Reactions			
(newly added)			
40 Other antibiotic prop	arationa		
	adium (emerciaillin hudrata (alerithremucin		
Rabeprazole so	balum/amoxiciiin nyarate/ciarithromycin		
Brand name	Rabecure Pack 400, 800 (Eisai Co., Ltd.)		
[Under old instructions]			
Important Precautions	(Amoxicillin hydrate)		
	No methods are currently available for predicting onset of shock,		
	anaphylaxis, or acute coronary syndrome accompanying allergic		
	reaction with reasonable certainty. A thorough medical interview should		
	be conducted regarding patient's medical history of these events, etc.		
	in advance. In addition, it should be ensured that a history of allergy to		
	antibiotics was checked.		
Adverse Reactions	(Amoxicillin hydrate)		
	Acute coronary syndrome accompanying allergic reaction:		
Adverse Reactions	Acute coronary syndrome accompanying allergic reaction may occur.		
(newly added)	Patients should be calefully monitored. If any approximatiles are		
	observed, administration of this drug should be discontinued and		
[] Inder new instructions]	מארווייייייייייייייייייייייייייייייייייי		
	<a hydratas<="" maxiaillin="" th="">		
PRECAUTIONS	No methods are surrently excitable for predicting exact of sheek		
	No methods are currently available for predicting onset of shock,		
	No methods are currently available for predicting onset of shock, anaphylaxis, or acute coronary syndrome accompanying allergic		
	No methods are currently available for predicting onset of shock, anaphylaxis, or acute coronary syndrome accompanying allergic reaction with reasonable certainty. A thorough medical interview should be conducted regarding patient's medical bistony of these events, etc.		
	<u>No methods are currently available for predicting onset of shock,</u> <u>anaphylaxis, or acute coronary syndrome accompanying allergic</u> <u>reaction with reasonable certainty.</u> A thorough medical interview should be conducted <u>regarding patient's medical history of these events, etc.</u> in advance. In addition, it should be ensured that a history of allergy to		
	<u>No methods are currently available for predicting onset of shock,</u> <u>anaphylaxis, or acute coronary syndrome accompanying allergic</u> <u>reaction with reasonable certainty.</u> A thorough medical interview should be conducted <u>regarding patient's medical history of these events, etc.</u> <u>in advance. In addition, it should be ensured that a history of allergy to</u> <u>antibiotics was checked</u>		
11 ADVERSE	<u>No methods are currently available for predicting onset of shock,</u> <u>anaphylaxis, or acute coronary syndrome accompanying allergic</u> <u>reaction with reasonable certainty.</u> A thorough medical interview should be conducted <u>regarding patient's medical history of these events, etc.</u> <u>in advance. In addition, it should be ensured that a history of allergy to</u> <u>antibiotics was checked.</u>		
11. ADVERSE	No methods are currently available for predicting onset of shock, anaphylaxis, or acute coronary syndrome accompanying allergic reaction with reasonable certainty. A thorough medical interview should be conducted regarding patient's medical history of these events, etc. in advance. In addition, it should be ensured that a history of allergy to antibiotics was checked.		
11. ADVERSE REACTIONS 11.1 Clinically	No methods are currently available for predicting onset of shock, anaphylaxis, or acute coronary syndrome accompanying allergic reaction with reasonable certainty. A thorough medical interview should be conducted regarding patient's medical history of these events, etc. in advance. In addition, it should be ensured that a history of allergy to antibiotics was checked.		
11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse	No methods are currently available for predicting onset of shock, anaphylaxis, or acute coronary syndrome accompanying allergic reaction with reasonable certainty. A thorough medical interview should be conducted regarding patient's medical history of these events, etc. in advance. In addition, it should be ensured that a history of allergy to antibiotics was checked.		
11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions	No methods are currently available for predicting onset of shock, anaphylaxis, or acute coronary syndrome accompanying allergic reaction with reasonable certainty. A thorough medical interview should be conducted regarding patient's medical history of these events, etc. in advance. In addition, it should be ensured that a history of allergy to antibiotics was checked. <amoxicillin hydrate=""> Acute coronary syndrome accompanying allergic reaction</amoxicillin>		
11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added)	No methods are currently available for predicting onset of shock, anaphylaxis, or acute coronary syndrome accompanying allergic reaction with reasonable certainty. A thorough medical interview should be conducted regarding patient's medical history of these events, etc. in advance. In addition, it should be ensured that a history of allergy to antibiotics was checked. <amoxicillin hydrate=""> Acute coronary syndrome accompanying allergic reaction</amoxicillin>		

13 Other antibiotic preparations

Pharmaceuticals and Medical Devices Safety Information No.397

Rabeprazole sodium/amoxicillin hydrate/metronidazole

Brand name	Rabefine Pack (Eisai Co., Ltd.)
[Under new instructions]	
8. IMPORTANT	<amoxicillin hydrate=""></amoxicillin>
PRECAUTIONS	No methods are currently available for predicting onset of shock,
	anaphylaxis, or acute coronary syndrome accompanying allergic
	reaction with reasonable certainty. A thorough medical interview should
	be conducted regarding patient's medical history of these events, etc.
	in advance. In addition, it should be ensured that a history of allergy to
	antibiotics was checked.
11. ADVERSE	
REACTIONS	
11.1 Clinically	<amoxicillin hydrate=""></amoxicillin>
Significant Adverse	Acute coronary syndrome accompanying allergic reaction
Reactions	
(newly added)	

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 October 31, 2022)

©: Products for which EPPV was initiated after September 1, 2022				
	Nonproprietary name Brand name	Name of the MAH	Date of EPPV initiate	
0	Rivaroxaban ^{*1} Xarelto tablets 2.5 mg	Bayer Yakuhin Ltd.	October 24, 2022	
0	Coronavirus Modified Uridine RNA Vaccine (SARS-CoV-2) Comirnaty intramuscular injection for 6 months to 4 years old	Pfizer Japan Inc.	October 19, 2022	
0	Coronavirus Modified Uridine RNA Vaccine (SARS-CoV-2) COMIRNATY RTU intramuscular injection (Bivalent: Original/Omicron BA.4-5)	Pfizer Japan Inc.	October 7, 2022	
	Fesoterodine fumarate ^{*2} Toviaz Tablets 4 mg, 8 mg	Pfizer Japan Inc.	September 26, 2022	
	Aflibercept (genetical recombination) * ³ Eylea solution for IVT inj. 40 mg/mL	Bayer Yakuhin Ltd.	September 26, 2022	
	Upadacitinib hydrate ^{*4} [1] Rinvoq Tablets 7.5 mg, [2] 15 mg, [3] 30 mg, [4] 45 mg	AbbVie GK	September 26, 2022	
	Coronavirus Modified Uridine RNA Vaccine (SARS-CoV-2) ^{*5} Spikevax Intramuscular Injection	Moderna Japan Co., Ltd.	September 20, 2022	
	Coronavirus Modified Uridine RNA Vaccine (SARS-CoV-2) ^{*6} Comirnaty RTU intramuscular injection (Bivalent: Original/Omicron BA.1)	Pfizer Japan Inc.	September 14, 2022	
	Ethyl icosapentate Epadel EM Capsules 2 g	Mochida Pharmaceuticals Co. Ltd.	September 12, 2022	
	Sutimlimab (genetical recombination) Enjaymo for I.V. infusion 1.1 g	Sanofi K.K.	September 8, 2022	
	Tixagevimab (genetical recombination) and cilgavimab (genetical recombination) Evusheld Intramuscular Injection Set	AstraZeneca K.K.	August 31, 2022	

Pharmaceuticals and Medical Devices Safety Information No.397

Nonproprietary name Brand name	Name of the MAH	Date of EPPV initiate
Pimitespib Jeselhy tablets 40 mg	TAIHO Pharmaceutical Co., Ltd.	August 30, 2022
Icatibant acetate Firazyr subcutaneous injection 30 mg syringes	Takeda Pharmaceutical Company Limited.	August 24, 2022
Ravulizumab (genetical recombination) ^{*7} Ultomiris for Intravenous Infusion 300 mg, 300 mg/3 mL, Ultomiris for Intravenous Infusion 1100 mg/11 mL	Alexion Pharma Godo Kaisha	August 24, 2022
Landiolol hydrochloride ^{*8} Onoact for I. V. Infusion 50 mg, 150 mg	Ono Pharmaceutical Co., Ltd.	August 24, 2022
Darinaparsin Darvias Injection 135 mg	Solasia Pharma K.K.	August 22, 2022
Vestronidase alfa (genetical recombination) Mepsevii Intravenous Infusion 10 mg	Ultragenyx Japan K.K.	August 22, 2022
Vosoritide (genetical recombination) Voxzogo for Subcutaneous Injection 0.4 mg, 0.56 mg, 1.2 mg	BioMarin Pharmaceutical Japan K.K.	August 19, 2022
Nemolizumab (genetical recombination) Mitchga 60 mg Syringes	Maruho Co., Ltd.	August 8, 2022
Freeze-dried Smallpox Vaccine Prepared in Cell Culture ^{*9} Freeze-dried Smallpox Vaccine Prepared in Cell Culture LC16 "KMB"	KM Biologics Co., Ltd.	August 2, 2022
 [1] [2] Cabotegravir, [3] Cabotegravir sodium, [4] [5] Rilpivirine [1] Vocabria Aqueous Suspension for IM Injection 400 mg, [2] Vocabria Aqueous Suspension for IM Injection 600 mg, [3] Vocabria Tablets 30 mg, [4] Rekambys Aqueous Suspension for IM Injection 600 mg, [5] Rekambys Aqueous Suspension for IM Injection 900 mg 	[1] [2] [3] ViiV Healthcare K.K. [4] [5] Janssen Pharmaceutical K.K.	June 27, 2022
Emicizumab (genetical recombination) ^{*10} Hemlibra for Subcutaneous Injection 30 mg, 60 mg, 90 mg, 105 mg, 150 mg	Chugai Pharmaceutical Co., Ltd.	June 20, 2022
Daptomycin Cubicin IV 350 mg	MSD K.K.	June 20, 2022
Brolucizumab (genetical recombination) *11 Beovu kit for intravitreal injection 120 mg/mL	Novartis Pharma K.K.	June 20, 2022
Rituximab (genetical recombination) *12 Rituxan Intravenous Infusion 100 mg, 500 mg	Zenyaku Kogyo Co., Ltd.	June 20, 2022

Pharmaceuticals and Medical Devices Safety Information No.397

Nonproprietary name Brand name	Name of the MAH	Date of EPPV initiate
Reyvow tablets 50 mg, 100 mg	Eli Lilly Japan K.K.	June 8, 2022
Avacopan Tavneos Capsules 10 mg	Kissei Pharmaceutical Co., Ltd.	June 7, 2022
Olipudase alfa (genetical recombination) Xenpozyme for I.V. Infusion 20 mg	Sanofi K.K.	June 3, 2022
Finerenone Kerendia tablets 10 mg, 20 mg	Bayer Yakuhin Ltd.	June 2, 2022
Valbenazine tosilate Dysval Capsules 40 mg	Mitsubishi Tanabe Pharma Corporation	June 1, 2022
Difamilast Moizerto ointment 0.3%, 1%	Otsuka Pharmaceutical Co., Ltd.	June 1, 2022
Carotegrast methyl Carogra Tablets 120 mg	EA Pharma Co., Ltd.	May 30, 2022
Fosnetupitant chloride hydrochloride Arokaris I.V. infusion 235 mg	TAIHO Pharmaceutical Co., Ltd.	May 30, 2022
_Tolvaptan sodium phosphate Samtasu for I.V. infusion 8 mg, 16 mg	Otsuka Pharmaceutical Co., Ltd.	May 30, 2022
Lanadelumab (genetical recombination) Takhzyro subcutaneous injection 300 mg syringes	Takeda Pharmaceutical Company Limited.	May 30, 2022
Metronidazole ^{*13} Rozex Gel 0.75%	Maruho Co., Ltd.	May 26, 2022
Asciminib hydrochloride Scemblix tablets 20 mg, 40 mg	Novartis Pharma K.K.	May 25, 2022
Faricimab (genetical recombination) Vabysmo solution for Intravitreal Injection 120 mg/mL	Chugai Pharmaceutical Co., Ltd.	May 25, 2022
Andexanet alfa (genetical recombination) Ondexxya for Intravenous Injection 200 mg	Alexion Pharma Godo Kaisha	May 25, 2022
Glycopyrronium tosilate hydrate Rapifort Wipes 2.5%	Maruho Co., Ltd.	May 23, 2022
Recombinant COVID-19 (SARS-CoV-2) vaccine Nuvaxovid Intramuscular Injection	Takeda Pharmaceutical Company Limited.	May 10, 2022
Efgartigimod Alfa (genetical recombination) Vyvgart for Intravenous Infusion 400 mg	argenx Japan K.K.	May 9, 2022

Prevention of thrombus/embolus formation in patients with peripheral arterial disease after lower extremity 1 revascularization

*2 A drug with a new additional pediatric dosage indicated for urinary management in patients with neurogenic bladder

*3 Retinopathy of prematurity

*4 [1] [2] [3] Remission induction and maintenance therapy for moderate to severe ulcerative colitis

(only for patients who have not adequately responded to conventional treatments), [4] remission induction therapy for moderate to severe ulcerative colitis (only for patients who have not adequately responded to conventional treatments)

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

*6 Prevention of infectious disease caused by SARS-CoV-2

*7 Treatment of generalized myasthenia gravis (only for patients whose symptoms are difficult to control with high-dose intravenous immunoglobulin therapy or plasmapheresis)

*8 A drug with a new additional pediatric dosage indicated for the treatment of tachyarrhythmia (supraventricular Pharmaceuticals and Medical Devices Safety Information No.397

tachycardia, atrial fibrillation and atrial flutter) in patients with low cardiac function

- *9 Monkeypox
- *10 Routine prophylaxis to prevent or reduce the frequency of bleeding episodes in patients with acquired hemophilia A
- *11 Diabetic macular oedema
- *12 Prevention of recurrence of neuromyelitis optica spectrum disorder (including neuromyelitis optica)
- *13 Rosacea