Pharmaceuticals and Medical Devices Safety Information

No. 412 August 2024

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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/safety/infoservices/drugs/medical-safety-information/0002.html) and on the MHLW website (https://www.mhlw.go.jp/, only in Japanese).

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.

This service is available only in Japanese.



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Pharmaceuticals and Medical Devices Safety Information

No. 412 August 2024

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

[Outline of Information]

Na	No Subject Measures Outline of Inf			Page
<u>No.</u>	Subject How to Start and Proceed With Improving Polypharmacy Among the Elderly in Regions	Measures	Outline of Information In association with the growth of aging population, concomitant administration of multiple drugs tends to cause safety problems due to physiological change by age and treatment of multiple comorbidities. The MHLW established the "Study Group on the Appropriate Medication for Elderly Patients (hereinafter referred to as the "Study Group")" in April 2017 and has been working on investigations and considerations of the matters necessary to secure safety of drug therapy in the elderly. Following discussions in the Study Group, the MHLW has recently revised "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Hospitals" and the Attached Table 3/Table 4 of "Guidance on Appropriate Medication for Elderly Patients (general)." In addition, the MHLW has newly compiled "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Regions" (PSB/PSD 0722 No. 1 by the Director of the Pharmaceutical Safety Division, Pharmaceutical Safety Bureau, MHLW, dated July 22, 2024). In this section, the Study Group's efforts until now as well as the written operational procedures for polypharmacy measures in regions are introduced.	5
2	Important Safety Information	P C	Epoprostenol sodium (and 3 others): Regarding the revision of the PRECAUTIONS of drugs in accordance with the Notification dated July 17, 2024, this section will present the details of important revisions as well as the case summary serving as the basis for these revisions.	9
3	Revisions of PRECAUTIONS (No. 352)	Р	Freeze-dried smallpox vaccine prepared in cell culture (and 7 others)	25
4	List of Products Subject to Early Post-marketing Phase Vigilance		List of products subject to Early Post- marketing Phase Vigilance as of June 30, 2024	29

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.

Pharmaceuticals and Medical Devices

Safety Information No. 412

Please utilize the Report Reception Site for reporting. (This service is available only in Japanese.)



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



Abbreviations

ADR	Adverse Drug Reaction		
CI	Confidence Interval		
CNS	Central Nervous System		
EPPV	Early Post-marketing Phase Vigilance		
FY	Fiscal Year		
GAD	General Affairs Division		
HPB	Health Policy Bureau		
MAH Marketing Authorization Holder			
MHLW Ministry of Health, Labour and Welfare			
MSI Microsatellite Instability			
MSPO Office of Medical Safety Promotion			
NYHA	New York Heart Association		
PMDA	Pharmaceuticals and Medical Devices Agency		
PSB	Pharmaceutical Safety Bureau		
PSD	Pharmaceutical Safety Division		
PSEHB Pharmaceutical Safety and Environmental Health Bureau			
TEN	Toxic Epidermal Necrolysis		

How to Start and Proceed With Improving Polypharmacy Among the Elderly in Regions

1. Introduction

In association with the growth of aging population, concomitant administration of multiple drugs tends to cause safety problems due to physiological change by age and treatment of multiple comorbidities. The MHLW established the "Study Group on the Appropriate Medication for Elderly Patients (hereinafter referred to as the "Study Group")" in April 2017 and has been working on investigations and considerations of the matters necessary to secure safety of drug therapy in the elderly.

So far, the Study Group has compiled and disseminated "Guidance on Appropriate Medication for Elderly Patients (general)," "Guidance of Appropriate Medication for Elderly Patients [particular (by recuperation environment)]," and "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Hospitals" (HPB/GAD/MSPO 0331 No. 1 and PSEHB/PSD 0331 No. 1, by the Director of the Office of Medical Safety Promotion, General Affairs Division, Health Policy Bureau, and the Director of the Pharmaceutical Safety Division, Pharmaceutical Safety and Environmental Health Bureau, MHLW, dated March 31, 2021).

Following discussions in the Study Group, the MHLW has recently revised "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Hospitals" (hereinafter referred to as the "hospital version of written operational procedures") including a collection of example forms and the Attached Table 3/Table 4 of "Guidance on Appropriate Medication for Elderly Patients (general)." In addition, the MHLW has newly compiled "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Regions" (hereinafter referred to as the "regional version of written operational procedures") (PSB/PSD 0722 No. 1 by the Director of the Pharmaceutical Safety Division, Pharmaceutical Safety Bureau, MHLW, dated July 22, 2024).

In this section, the Study Group's efforts until now as well as the operational procedures for polypharmacy measures in regions are introduced.

2. Past efforts

The Study Group compiled "Guidance on Appropriate Medication for Elderly Patients (general)" in 2017 as the basic considerations for practicing better drug therapy that takes into account the characteristics of elderly people, and "Guidance of Appropriate Medication for Elderly Patients [particular (by recuperation environment)]" in 2018 as the considerations for the medical treatment environment of each patient. In 2021, the Study Group compiled the hospital version of written operational procedures not only to have hospitals, which were just launching polypharmacy measures, use them as a start-up tool to solve the problems they might face but also to have hospitals, which had already made some progress in their measures, use them as reference materials in preparing their own operational procedures and making their operations more efficient.

In fiscal year (FY) 2023, the Study Group again conducted a survey on the status of polypharmacy measures in hospitals, which had previously been conducted in FY 2019, in order to further promote the polypharmacy measures for the elderly. It also newly conducted a similar survey on a regional basis to understand the actual situation and issues, etc. regarding the polypharmacy measures. Based on the results, it compiled the following recommendations.

(1) Recommendations for polypharmacy measures in hospitals

Recommendation 1: To promote organizational polypharmacy measures through the establishment of multi-occupational teams

Recommendation 2: To promote sharing tasks from pharmacists to other professions

Recommendation 3: To raise awareness among healthcare professionals

Recommendation 4: To utilize tools to share information outside the hospital

(2) Actual situation and issues to be considered regarding polypharmacy measures in regions Recommendation 1: To put polypharmacy measures on the agenda of regional collaborative committees

Recommendation 2: To establish a principal body that takes the initiative

Recommendation 3: To conduct awareness-raising activities in regions Recommendation 4: To utilize tools to share information in regions

3. How to start and proceed with improving polypharmacy among the elderly in regions

The regional version of the written operational procedures has recently been compiled for use in the actual implementation of polypharmacy measures in regions, since polypharmacy measures become more practical when they are taken on a region-wide basis. The operational procedures have two major purposes. The first is to be used from the perspective of how to deal with the patients in front of you in order to solve the problems you face in the early stages of the efforts (Chapter 1). The second is to be used as reference materials for the development of regional manuals, etc. to make operations more efficient in implementing the polypharmacy measures, contributing to the promotion of the measures throughout the region (Chapter 2). The main targets of the operational procedures are physicians, dentists, and pharmacists, but they are also intended for a wider range of people involved in the polypharmacy measures. Please use these materials together with the hospital version of written operational procedures to promote polypharmacy measures throughout the region including hospitals.

* Polypharmacy measures in regions assume situations where clinics and pharmacies work together, or where principal bodies such as administration, medical care institutions, nursing care facilities, and academic experts work together on a municipal basis through collaborative committees, etc. Situations where polypharmacy measures are led by hospitals as described in "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Hospitals" are not assumed here.

The contents of the operational procedures are as follows.

Chapter 1 How to start polypharmacy measures

○ Before starting polypharmacy measures

Rather than focusing only on a uniform number of drugs or types of drugs, it is necessary to start polypharmacy measures by understanding that prescriptions must be optimized in terms of ensuring safety, etc.

- To build the relationships among patients, their family members, and multi-occupational professionals
- > To prepare briefing materials for patients and their family members

 \bigcirc How to begin with small issues

- To start small
- > To utilize already existing arrangements and tools
- > To encourage patients to decide a key person to adjust polypharmacy

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.

Table Glossary on how to start and proceed with improving polypharmacy among the elderly in regions

Term	Description
Person who assists drug adjustment (drug adjustment assistant)	A person who has a certain level of knowledge about polypharmacy measures, who understands the status of prescriptions and medications for individual patients in providing medical care and nursing care in the region, and who supports the relevant patients by taking responsibility for the polypharmacy issues they have and by interacting with medical institutions and pharmacies involved with the patients (suggesting changes in prescriptions, etc.) in order to ensure that appropriate prescriptions are given and medications are taken properly according to the patients' conditions. * A term used for convenience in this document * There is no obligation to appoint such personnel in the administrative system, etc.
Regional polypharmacy coordinator	A person who works with those involved in medical and nursing care in the region with their understanding, who plays a central role in reviewing the policy on polypharmacy measures in the entire region, and who leads the regional polypharmacy measures. * A term used for convenience in this document * There is no obligation to appoint such personnel in the administrative system, etc.

O Challenges and countermeasures for starting polypharmacy measures

It provides countermeasures to challenges, such as "insufficient multi-occupational cooperation," "being unable to understand patients' medications in an integrated manner," "necessity to efficiently identify polypharmacy patients," "difficulty determining whether a patient is under polypharmacy or not," "difficulty for a physician to adjust medications prescribed in other departments," "difficulty grasping comprehensive disease conditions," "a system yet to be arranged to feed back the revised prescription details to primary physicians," and "being too understaffed to make time to be actively involved in the regional polypharmacy measures."

Chapter 2 How to proceed with polypharmacy measures

- Setting up a system for polypharmacy measures
 - > To confirm the concept of polypharmacy
 - > To identify the purposes of polypharmacy measures
 - To prepare related materials
 - > To decide who will be in charge of promoting polypharmacy measures
 - > To have local governments and insurers get involved in polypharmacy measures
 - To develop a cooperation structure with medical/nursing care professionals, etc., who are responsible for the comprehensive community care system
 - > To promote polypharmacy measures using information technology
 - > To consider the costs

○ Implementation of polypharmacy measures

- To review the overall policy on polypharmacy measures in the region at collaborative committees
- > To understand the current situation of the region
- > To improve understanding among the regional population
- > To gain understanding of regional medical/nursing care professionals, etc.
- > To conduct awareness-raising activities in regions
- > To monitor results of polypharmacy measures

○ Example of case-specific implementation of polypharmacy measures

It provides examples of how situations such as the following can be handled: Patients receiving outpatient or in-home medical care; patients discharged from medical institutions; patients residing in care and health service facilities for the aged; how to work with local governments and insurers; and how to have cooperation across multiple professions.

○ Collection of example forms

Examples of forms to be used in polypharmacy measures (preparing rules, identifying patients suspected of polypharmacy, providing information on the results of prescription review, and monitoring of patients' conditions after prescription revision) are contained.

4. Closing remark

"How to Start and Proceed With Improving Polypharmacy Among the Elderly in Regions," "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Hospitals," "Guidance on Appropriate Medication for Elderly Patients (general)," and "Guidance of Appropriate Medication for Elderly Patients [particular (by recuperation environment)]" introduced here are available on the website of the MHLW. Healthcare professionals are encouraged to read through the website and to use the information for the polypharmacy measures in hospitals and regions.

[References]

- Guidance on Appropriate Medication for Elderly Patients (general) (HPB/GAD/MSPO 0529 No. 1, PSEHB/PSD 0529 No. 1 dated May 29, 2018) <u>https://www.mhlw.go.jp/stf/shingi2/0000208848.html</u> (in Japanese) <u>https://www.pmda.go.jp/files/000232249.pdf</u> (in English)
- Guidance of Appropriate Medication for Elderly Patients [particular (by recuperation environment)] (HPB/GAD/MSPO 0614 No. 1, PSEHB/PSD 0614 No. 1 dated June 14, 2019) https://www.mhlw.go.jp/stf/newpage 05217.html (only in Japanese)
- Report on the FY 2019 Survey on the Polypharmacy Measures in Clinical Practice (Material 1, the 11th Study Group on the Appropriate Medication for Elderly Patients on April 10, 2020)

https://www.mhlw.go.jp/content/11125000/000622768.pdf (only in Japanese)

- "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Hospitals" (HPB/GAD/MSPO 0331 No. 1, PSEHB/PSD 0331 No. 1 dated March 31, 2021) https://www.mhlw.go.jp/content/11120000/000763323.pdf (only in Japanese)
- "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Hospitals" and "How to Start and Proceed With Improving Polypharmacy Among the Elderly in Regions" (PSB/PSD 0722 No. 1, dated July 22, 2024)
- <u>https://www.mhlw.go.jp/content/11120000/001277264.pdf</u> (only in Japanese)
 Study Group on the Appropriate Medication for Elderly Patients <u>http://www.mhlw.go.jp/stf/shingi/other-iyaku.html?tid=431862</u> (only in Japanese)
- •Report on the Survey on the Project to Promote the Appropriate Medication for Elderly Patients and Report on the Reviews of Guidance and Written Operational Procedures, etc. (Material 1, the 18th Study Group on the Appropriate Medication for Elderly Patients on June 21, 2024)

https://www.mhlw.go.jp/content/11125000/001265396.pdf (only in Japanese)

• Pharmaceuticals and Medical Devices Safety Information No. 389 How to Start and Proceed With Improving Polypharmacy Among the Elderly in Hospitals https://www.mhlw.go.jp/content/11120000/000878166.pdf (in Japanese)

https://www.pmda.go.jp/files/000244514.pdf (in English)

Important Safety Information

Regarding the revision of the PRECAUTIONS of package inserts of drugs in accordance with the Notification dated July 17, 2024 this section will present the details of important revisions as well as the case summary serving as the basis for these revisions.

Epoprostenol sodium

Brand name	Flolan for Injection 0.5 mg, 1.5 mg (GlaxoSmithKline K.K.), and the
(name of company)	others
Therapeutic category	Other cardiovascular agents
Indications	Pulmonary arterial hypertension

RECAUTIONS (Revised language is underlined.)

(
11. ADVERSE	Ascites
REACTIONS	If ascites is observed, the possibility that it may be due to this drug
11.1 Clinically	<u>or other causes (right heart failure, liver disorder, etc.) should be</u>
Significant Adverse	considered. If this drug is suspected to be the cause after
Reactions	evaluating possible causes for ascites, appropriate measures
(newly added)	should be taken such as dose reduction or discontinuation of this
	drug.
Reference information	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 ascites reported in Japan: 3 (No patient mortalities) Number of patients using the drug as estimated by the MAH during the previous 1-year period: Approximately 140 Japanese market launch: 0.5 mg: April 1999 1.5 mg: July 2001
	C y

		Patient	Daily dose/		Adverse reaction	
lo.	Sex/ age	Reason for use (complication)	Administration duration	C	linical course and treat	ment
1	Female Pulmonary arterial Unknown hypertension	75 ng/kg/min	Ascites, high output cardiac failure, pulmonary congestio			
	UNKNOWN		/n)	Before start of administration	The patient was diagr pulmonary arterial hyp Acute pulmonary vaso negative. Treatment w bosentan hydrate, and initiated.	pertension in her 20s preactivity testing wa vith sildenafil citrate,
				3 years after start of treatment	The patient was diagr the New York Heart A classification.	
				Day 1 of administration of epoprostenol sodium	Administration of epop initiated.	prostenol sodium wa
				2 years after start of administration of epoprostenol sodium	After the start of admi epoprostenol sodium, gradually increased, a classification improve Class III in 2 years.	the dose was nd the NYHA
				Date unknown (day of onset)	Ascites developed. Du over several months, admitted to the hospit transudative. Hypopro- hypertension, lymphoi obstruction were ruled High output cardiac fa congestion developed was administered sim infusion of albumin, ar paracentesis was perf ascites rapidly accum drainage. The measur right cardiac catheteri progression of pulmor hypertension, suggest high output cardiac fa The dose of epoprost reduced from 75 ng/kg in a month. After the of epoprostenol sodium, gradually decreased, congestion improved. The outcome of ascite resolved. Eventually, disappeared with the i NYHA classification to no recurrence of ascit right heart failure was outcome of pulmonary reported as resolved.	the patient was al. The ascites was teinaemia, portal ma, and lymphatic lout. ilure and pulmonary . A high-dose diuret ultaneously with drip nd abdominal formed. However, ulated again after rement results of the zation revealed no nary arterial ting the possibility of ilure. enol sodium was g/min to 66 ng/kg/mi lose reduction of the massive ascites and pulmonary es was reported as ascites completely mprovement of the o Class III. Thereafte es or aggravation of observed. The
		Approximately 2 years after dose reduction	The dose reduction of did not result in aggra underlying pulmonary	vation of the		
	lahar ta t				paintenary	
	Laboratory t	est value (right cardiad	c catheterisation)	Before administration of epoprostenol sodium	Approximately 2 years after start of administration	Approximately 2 years after dose reduction
		vascular resistance (855	217	160
		nonary arterial pressur		64	35	33
	L Gardiac of	tput [Fick method] (L/i	(חוד	-	9.9	-

- 10 -

Mean right atrial pressure (mmHg)	-	8	-		
Pulmonary arterial wedge pressure (mmHg)	-	10	-		
Mixed venous blood saturation (%)	-	81.5	-		
Suspected concomitant drugs: None Concomitant drugs: Sildenafil citrate, bosentan hydrate, diuretic					

2 [1] Nivolumab (genetical recombination) [2] Ipilimumab (genetical recombination)

	(genetical recombination)
Brand name (name of company)	 [1] Opdivo I.V. Infusion 20 mg, 100 mg, 120 mg, 240 mg (Ono Pharmaceutical Co., Ltd.) [2] Yervoy Injection 20 mg, 50 mg (Bristol-Myers Squibb K.K.)
Therapeutic category	Other antitumor agents
Indications	 [1] •Malignant melanoma •Unresectable, advanced or recurrent non-small cell lung cancer •Neoadjuvant therapy for non-small cell lung cancer •Reoadjuvant therapy for non-small cell lung cancer •Radically unresectable or metastatic renal cell carcinoma •Relapsed or refractory classical Hodgkin lymphoma •Recurrent or metastatic head and neck cancer •Unresectable, advanced or recurrent gastric cancer •Unresectable, advanced or recurrent malignant pleural mesothelioma •Malignant mesothelioma (excluding malignant pleural mesothelioma) •Unresectable, advanced or recurrent microsatellite instability-high (MSI-High) colorectal cancer that has progressed after chemotherapy •Radically unresectable, advanced or recurrent oesophageal carcinoma •Postoperative adjuvant therapy for oesophageal carcinoma •Carcinoma of unknown primary Postoperative adjuvant therapy for urothelial carcinoma •Radically unresectable, advanced or recurrent malignant epithelial tumor [2] •Radically unresectable or metastatic renal cell carcinoma •Malignant epithelial cancer that has progressed after chemotherapy •Dostoperative adjuvant therapy for urothelial carcinoma •Carcinoma •Dostoperative adjuvant therapy for urothelial carcinoma •Carcinoma <
	•Radically unresectable advanced or recurrent oesophageal carcinoma

PRECAUTIONS (Revised language is underlined.)

11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions	Encephalitis, meningitis <u>, myelitis</u>
Reference information	Number of cases for which information on cerebrospinal fluid tests, blood cultures, or PCR testing, in addition to information on the results of spinal MRI examinations, is available within the case report form among those collected in the PMDA's database for adverse drug

reactions, etc. report

Cases involving myelitis reported in Japan and overseas:

[1] Cases involving myelitis reported in Japan: 1 (No patient mortalities)

Cases involving myelitis reported in overseas: 16 (No patient mortalities)

[2] Cases involving myelitis reported in Japan: 1 (No patient mortalities)

Cases involving myelitis reported in overseas: 10 (No patient mortalities)

Number of patients using the drug as estimated by the MAH during the previous 1-year period: [1] Approximately 32,700 [2] Approximately 10,937

Japanese market launch:

- [1] Opdivo I.V. Infusion 20 mg, 100 mg: September 2014
 Opdivo I.V. Infusion 240 mg: November 2018
 Opdivo I.V. Infusion 120 mg: November 2020
- [2] Yervoy Injection 50 mg: August 2015

Yervoy Injection 20 mg: November 2021

		Patient	Daily dose/		Adverse reaction
No.	Sex/ age	Reason for use (complication)	Administration duration		Clinical course and treatment
1	Male	lale Recurrent non-small	360 mg	Immune-mediate	
	60s	cell lung cancer	2 courses at 27	The patient had a	history of smoking.
		(metastases to lymph nodes, malignant pleural effusion, hyperuricaemia)	days interval	Day 1 of administration	Administration of nivolumab (genetical recombination) (360 mg), ipilimumab (genetical recombination) (60 mg), cisplatin (128 mg), and pemetrexed sodium hydrate (850 mg) was started as a combination therapy for PS1 unresectable advanced/recurrent non-small cell lung cancer (lung adenocarcinoma, stage IV, PD-L1: less than 1%).
				27 days after administration	Nivolumab, cisplatin, and pemetrexed sodium hydrate were administered.
				41 days after administration	Dysuria appeared.
				45 days after administration	Urinary incontinence and motor paralysis of the right lower limb appeared.
				46 days after administration	The patient complained of motor paralysis of the right lower limb and bladder dysfunction, and he was urgently admitted to the hospital.
				47 days after administration (day of discontinuation)	Motor paralysis and sensory paralysis of both upper and lower limbs appeared. A contrast-enhanced MRI revealed myelitis from the cervical to thoracic spine levels. Metastases to the central nervous system or encephalitis were not observed. He was diagnosed with immune-mediated myelitis. Administration of nivolumab and ipilimuma was discontinued. [MRI examinations] Hyperintensity in the cervical and upper thoracic spinal cords (C3/4-7, Th1, 3)
				1 day after discontinuation	A cerebrospinal fluid test showed increase cell counts, but they were not malignant cells. [Cerebrospinal fluid test] Albumin: 31.1 mg/dL, cell count: 13/μL, chloride: 120 mmol/L, glucose: 59 mg/dL, protein: 57 mg/dL, red blood cell count: 0/μL, mononuclear cell: 13/μL, polymorphonuclear cell: 0/μL, oligoclonal band (-) [Other laboratory tests] Anti-AQP4 antibody (-), sIL-2 receptor: 1277.2 U/mL, herpes simplex test (-)
				2 days after discontinuation	Administration of methylprednisolone sodium succinate (1 g) was started as steroid pulse therapy.
				5 days after discontinuation	Administration of prednisolone (60 mg) wa started. Paralysis of the upper and lower limbs worsened.
				9 days after discontinuation	Administration of methylprednisolone sodium succinate (1 g) was started as steroid pulse therapy.
				12 days after discontinuation	Administration of prednisolone (60 mg) was started. Paralysis of the upper and lower limbs showed a tendency to improve.
				23 days after discontinuation	MRI examinations showed a tendency toward improvement in immune-mediated myelitis.
				26 days after discontinuation	The dose of prednisolone was reduced to 50 mg. The dose of prednisolone was tapered subsequently.

		54 days after discontinuation	The patient was discharged from the hospital.	
		Date unknown	A CT scan revealed progression of carcinomatous pleurisy and metastases to lymph nodes. Administration of sotorasib (960 mg) was started in combination with prednisolone (5 mg).	
		186 days after discontinuation	Immune-mediated myelitis resolved with sequelae (impaired urination). Administration of prednisolone was terminated.	
Suspe Conce	Suspected concomitant drugs: Ipilimumab (genetical recombination) Concomitant drugs: Cisplatin, pemetrexed sodium hydrate, sotorasib			

		Patient	Daily dose/		Adverse reaction	
No.	Sex/ age	Reason for use (complication) Recurrent non-small cell lung cancer	Administration duration 60 mg once daily for 1 day	Clinical course and treatment		
2	Male 60s			Immune-mediate The patient had a	e d myelitis a history of smoking.	
		(metastases to lymph nodes, malignant pleural effusion, hyperuricaemia)	Discontinuation	Day 1 of administration (day of termination)	Administration of ipilimumab (60 mg), nivolumab (360 mg), cisplatin (128 mg), and pemetrexed sodium hydrate (850 mg) was started as a combination therapy for PS1 unresectable advanced/recurrent nor small cell lung cancer (lung adenocarcinoma, stage IV, PD-L1: less than 1%).	
				27 days after termination	Nivolumab, cisplatin, and pemetrexed sodium hydrate were administered.	
				41 days after termination	Dysuria appeared.	
				45 days after termination	Urinary incontinence and motor paralysis the right lower limb appeared.	
				46 days after termination	The patient complained of motor paralysis of the right lower limb and bladder dysfunction and he was urgently admitted	
				47 days after termination	to the hospital. Motor paralysis and sensory paralysis of both upper and lower limbs appeared. A contrast-enhanced MRI revealed myelitis from the cervical to thoracic spine levels. Metastases to the central nervous system or encephalitis were not observed. He wa diagnosed with immune-mediated myelitis Administration of ipilimumab and nivoluma was discontinued. [MRI examinations] Hyperintensity in the cervical and upper thoracic spinal cords	
				48 days after termination	 (C3, 4-7, Th1, 3) A cerebrospinal fluid test showed increase cell counts, but they were not malignant cells. [Cerebrospinal fluid test] Albumin: 31.1 mg/dL, cell count: 13/μL, chloride: 120 mmol/L, glucose: 59 mg/dL, protein: 57 mg/dL, red blood cell count: 0/μL, mononuclear cell: 13/μL, polymorphonuclear cell: 0/μL, oligoclonal band (-) [Other laboratory tests] Anti-AQP4 antibod (-), slL-2 receptor: 1277.2 U/mL, herpes simplex test (-) 	
				49 days after termination	Administration of methylprednisolone sodium succinate (1 g) was started as steroid pulse therapy.	
				52 days after termination	Administration of prednisolone (60 mg) wa started. Paralysis of the upper and lower limbs worsened.	
				56 days after termination	Administration of methylprednisolone sodium succinate (1 g) was started as steroid pulse therapy.	
				59 days after termination	Administration of prednisolone (60 mg) wa started. Paralysis of the upper and lower limbs showed a tendency to improve.	
				70 days after termination	MRI examinations showed a tendency toward improvement in immune-mediated myelitis.	
				73 days after termination	The dose of prednisolone was reduced to 50 mg. The dose of prednisolone was tapered subsequently.	
				101 days after termination	The patient was discharged from the hospital.	

	Date unknown	A CT scan revealed progression of carcinomatous pleurisy and metastases to lymph nodes. Administration of sotorasib (960 mg) was started in combination with prednisolone (5 mg).
	233 days after termination	Immune-mediated myelitis resolved with sequelae (impaired urination). Administration of prednisolone was terminated.
ected concomitant drugs: Nivolu omitant drugs: Cisplatin, pemeti	mab (genetical recombination) exed sodium hydrate, sotorasib	

3 Tirabrutinib hydrochloride

Brand name (name of company)	Velexbru Tablets 80 mg (Ono Pharmaceutical Co., Ltd.)
Therapeutic category	Other antitumor agents
Indications	 Recurrent or refractory primary central nervous system lymphoma Waldenström's macroglobulinaemia and lymphoplasmacytic lymphoma

DDECALITIONS (D

PRECAUTIONS (Revised	language is	underlined.)					
7. PRECAUTIONS	If adverse i	reactions occur fo	llowing administration of this drug, this				
CONCERNING DOSAGE	drug should be discontinued temporarily or permanently, or the dose						
AND	should be r	educed by referri	ng to the following criteria.				
ADMINISTRATION	A guide for temporary/permanent drug discontinuation or dose						
	reduction in the event of adverse reactions						
		se reactions*	Treatment				
	Skin disorders	Grade 2	Antihistamines, corticosteroids, etc. should be administered. If the patient recovers from adverse reactions, administration of this drug should be continued. If the patient does not recover from adverse reactions, administration of this drug should be continued by reducing the dose by one level or administration of this drug should be temporarily discontinued.				
		Grade 3 or higher	Antihistamines, corticosteroids, etc. should be administered, and administration of this drug should be temporarily discontinued until adverse reactions recover to grade 2 or lower. After the recovery, administration can be resumed by reducing the dose by one level.				
		Oculomucocu- taneous syndrome (Stevens- Johnson syndrome) or toxic epidermal necrolysis (TEN)	Administration should be permanently discontinued.				
	* Grade sh	ould be in accorda	ance with NCI-CTCAE v4.0.				
11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions	<u>oculomuco</u>	n disorders such a <u>cutaneous syndro</u>	as <u>toxic epidermal necrolysis (TEN),</u> ome (Stevens-Johnson syndrome), c skin eruption may occur.				

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

for adverse drug reactions, etc. reports Cases involving TEN reported in Japan: 4 (No patient mortalities) Cases involving oculomucocutaneous syndrome reported in Japan: 10 (No patient mortalities) Number of patients using the drug as estimated by the MAH during the previous 1-year period: Approximately 1,062

Japanese market launch: May 2020

		Patient	Daily dose/		Adverse reaction		
No.	Sex/ age	Reason for use (complication)	Administration duration	Clinical course and treatment			
1	Male 50s	Lymphoplasmacytoid lymphoma/ immunocytoma (nephrotic syndrome)	480 mg for 31 days ↓ discontinuation	Date unknown	n syndrome history of knee fracture and drinking. Oral prednisolone (12.5 mg/day) had been administered for nephrotic syndrome.		
				Day 1 of administration	Administration of tirabrutinib hydrochloride was initiated for the treatment of Waldenström's macroglobulinaemia and lymphoplasmacytic lymphoma.		
				Day 31 of administration (day of discontinuation)	Administration of tirabrutinib hydrochloride was discontinued.		
				1 day after discontinuation	Skin eruption and bulbar conjunctiva hyperaemia were observed. Administration of epinastine hydrochloride ophthalmic solution was initiated. On the same day, th patient visited the hospital at night. Stevens-Johnson syndrome was observed Macular redness was sporadically noted in the body trunk and the neck, and mild itching was noted. He had no stomatitis. The patient's body temperature was 36.1°C. Administration of olopatadine hydrochloride (dose unknown) was initiated.		
				3 days after discontinuation	Aggravated skin rash and pyrexia (38.2°C) were noted. Bilateral conjunctival hyperemia, pharynx redness, upper and lower lip swelling, and aphtha in the oral cavity were noted. Papules on the front and back of the trunk and extremities with a tendency to fuse in some places, and ruptures of blisters on the anterior surface of the trunk were noted. The dose of oral prednisolone was increased to 30mg/day.		
				4 days after discontinuation	Aggravation of skin eruption was observed Multiple raised erythemas and papules developed over the entire body, and some parts were target lesions with a tendency to fuse. A rupture of the membrane of blisters was noted in the lower limbs. The central body trunk was slightly discolored and planarized. Blisters and erosions were observed in some parts, and Nikolsky's sign was observed in erythemas (10% of the whole body area). Tenderness was noted. The patient had no spontaneous pain. Erosion was noted in the glans and the scrotum. No changes were seen in the conjunctiva and enanthem of the lips. The patient's body temperature was 37.9°C. The patient was urgently admitted to the hospital. Administration of intravenous infusion of prednisolone (60 mg/day) was initiated.		
				5 days after discontinuation	Bilateral ciliary hyperaemia and a slight opacity due to an immune reaction in the limbus were noted in his eyes. No corneal epithelium disorder or anterior chamber inflammation was noted. Neogenesis of blisters and spontaneous pain were noted in the lower extremities. The patient's body temperature was 37.3°C. Administration of intravenous infusion of methylprednisolone sodium succinate (1000 mg/day) was initiated.		

	[Skin biopsy] Skin biopsy was conducted on the target lesion erythema on the left dorsum pedis. Humoral degeneration of epidermal-dermal junction was noted. Lymphocyte infiltration and spongiosis were observed in the epidermis, and multiple individual cell necroses were observed in the surrounding area. Perivascular lymphocytic infiltrates were noted in the superficial dermal layer. Eosinophilic infiltration was not confirmed. Erythema multiforme was suspected. No malignant findings were observed.
6 days after discontinuation	Although the skin eruption of the central body trunk tended to be discolored and fuse, erythema of the face and upper and lower extremities tended to expand, and neogenesis of blisters was observed. The patient's body temperature was 36.8°C.
10 days after discontinuation	Neogenesis of erosion and erythema continued. Therefore, administration of oral prednisolone (60 mg/day) and intravenous infusion of immunoglobulin were initiated.
15 days after discontinuation	Neogenesis of erythema stabilized, and Nikolsky's sign became negative. Therefore, the dose of oral prednisolone was reduced to 50 mg/day.
28 days after discontinuation	No flare-up of skin redness was noted, and the dose of oral prednisolone was reduced to 30 mg/day. Stevens-Johnson syndrome remitted.
	discontinuation 10 days after discontinuation 15 days after discontinuation 28 days after

	19 days before administra- tion	Day 1 of administra -tion	Day 17 of administra -tion	3 days after discontinu- ation	4 days after discontinu- ation	5 days after discontinu- ation	6 days after discontinu- ation	28 days after discontinu- ation
C-reactive protein (mg/dL)	0.01	0.02	0.01	0.77	2.01	1.39	0.85	0.05
Aspartate aminotransferase (U/L)	11	15	12	19	25	23	18	28
Alanine aminotransferase (U/L)	25	16	10	13	19	18	21	49
Haemoglobin (g/dL)	13.6	14.2	13.1	13.7	13.5	13.9	13.3	11.3
Platelet count (10 ^{4/} µL)	30.1	38.4	33.6	28.4	23.2	26.9	26.7	27.3
Blood alkaline phosphatase (U/L)	44	46	40	42	43	38	40	71
Blood creatinine (mg/dL)	0.77	0.74	0.84	0.83	0.76	0.68	0.71	0.61
Blood bilirubin (mg/dL)	0.6	0.8	1.1	0.9	0.5	0.5	0.5	0.8
Blood lactate dehydrogenase (U/L)	106	113	107	186	216	227	155	184
Urea nitrogen (mg/dL)	16	14	17	14	18	17	26	21
WBC count (10 ³ /µL)	7.2	7.5	9.2	10.0	9.0	9.4	10.5	10.2
Neutrophil count (10 ³ /µL)	4.46	6.68	6.53	9.4	8.37	6.86	9.03	8.87
Lymphocyte count (10 ³ /µL)	2.52	0.75	2.21	0.3	0.54	1.79	1.05	1.12
Eosinophil count	0	0	0	0	0	0	0	0

		Patient	Daily dose/		Adverse reaction																			
lo.	Sex/ Reason for use age (complication)	Administration duration	(Clinical course and treatment																				
2	Female	e Primary central	480 mg	Stevens-Johnson	n syndrome																			
	80s	,	for 28 days	Cataract, acute ap																				
		lymphoma (none)	↓ discontinuation	Day 1 of administration	Administration of tirabrutinib hydrochloride was initiated for treatment of relapsed or refractory primary central nervous system (CNS) lymphoma (primary tumor: Cerebrum (right frontal lobe), DLBCL (Nor GCB)).																			
				Day 27 of administration:	Stevens-Johnson syndrome (Grade 3) wa observed. Skin eruption with itching appeared in the body trunk/both lower leg Administration of bilastine was initiated.																			
				Day 28 of administration (day of discontinuation)	Tirabrutinib hydrochloride was discontinued.																			
				3 days after discontinuation	Less than 10% of the body surface area was affected by lesions, including erythem in the body trunk, both thighs, and bilatera forearms. No enanthema was observed. Administration of topical betamethasone butyrate propionate and fexofenadine hydrochloride (120 mg×2/days) was initiated.																			
			7 days after discontinuation	Administration of ceftriaxone sodium hydrate (2000 mg/day) was initiated.																				
																							d	8 days after discontinuation
				11 days of discontinuation	Erythema showed a tendency to fade. The patient's body temperature was 36.4°C. Oral administration of prednisolone (30 mg× 2/day) was initiated.																			
				15 days after discontinuation	Erythema showed a tendency to fade. The patient's body temperature was 36.8°C.																			
				16 days after	The dose of oral prednisolone was reduce																			
															discontinuation 18 days after	to 25 mg × 2/day. Erythema showed a tendency to fade, and								
												discontinuation	epithelialization of the erosion area was noted. The patient's body temperature wa 36.2°C.											
					19 days after discontinuation	The dose of oral prednisolone was reduce to 20 mg × 2/day.																		
				21 days after discontinuation	The dose of oral prednisolone was reduce to 15 mg/day.																			
				22 days after discontinuation	Erythema improved. The patient's body temperature was 36.7°C.																			
				23 days after discontinuation	The dose of oral prednisolone was reduce to 10 mg/day.																			
				25 days after discontinuation	The dose of oral prednisolone was reduce to 5 mg/day.																			
				28 days after discontinuation	Stevens-Johnson syndrome resolved.																			

4 Gadobutrol

Brand name (name of company)	Gadovist iv injection 1.0 mol/L syringes 5 mL, 7.5 mL, 10 mL, Gadovist iv injection 1.0 mol/L 2 mL (Bayer Yakuhin, Ltd.)
Therapeutic category	Other diagnostic agents (except extracorporeal diagnostic medicines)
Indications	Magnetic resonance imaging of the following parts •Brain and spinal cord •Trunk and extremities

PRECAUTIONS (Revised language is underlined.)

11. ADVERSE	Shock, anaphylaxis
REACTIONS	Shock or anaphylaxis (decreased blood pressure, dyspnoea, loss of
11.1 Clinically	consciousness, pharyngeal/laryngeal oedema, face oedema,
Significant Adverse	respiratory arrest, cardiac arrest, etc.) may occur.
Reactions	Acute respiratory distress syndrome, pulmonary oedema
(newly added)	If rapidly progressive dyspnoea, hypoxaemia, or chest X-ray
· · · ·	abnormalities such as diffuse infiltrative shadow in both lungs are
	observed, appropriate measures should be taken as necessary.
Reference information	Number of cases (for which a causal relationship between the drug
	and event is reasonably possible) that were reported as adverse drug
	reaction names (PT) "acute respiratory distress syndrome," "acute
	pulmonary oedema," "pulmonary oedema," and "non-cardiogenic
	pulmonary oedema" and that included a description concerning chest
	imaging findings within the report among cases collected in the
	PMDA's database for adverse drug reactions, etc. reports is shown
	below.
	Of note, cases of pulmonary oedema associated with shock or
	anaphylaxis were excluded from those retrieved cases for which a
	causal relationship between the drug and event was reasonably
	possible, since it is a known event for which precautions have already been included in the package insert.
	Cases involving acute respiratory distress syndrome reported in
	Japan: 6 (No patient mortalities)
	Cases involving pulmonary oedema reported in Japan: 11 (No patient
	mortalities)
	,
	Number of patients using the drug as estimated by the MAH during
	the previous 1-year period: Approximately 809,548
	Japanese market launch:
	iv injection 1.0 mol/L syringes 5 mL, 7.5 mL, 10 mL: June 2015
	iv injection 1.0 mol/L 2 mL: August 2018

	Patient		Daily dose/	Adverse reaction		
No.	Sex/ age	Reason for use (complication)	Administration duration		Clinical course and treatment	
1	Female 70's	Lipoma (unknown)	6 mL Single	Non-cardiogenic	c pulmonary oedema	
			administration	Day of administration	Gadobutrol 6 mL per dose was administered intravenously for diagnostic imaging (suspected neck lipoma).	
				(End day of administration)	After completion of the examination, dyspnoea was noted. The oxygen saturation decreased (70 to 80%). One halt of an ampoule of adrenaline (0.5 mg) was administered. A CT scan revealed a finding of pulmonary oedema. An echocardiography showed no problems in cardiac function. The patient was admitted to the hospital, and she was treated with high-flow oxygen therapy (nasal high flow) and steroids.	
				6 days after administration	Non-cardiogenic pulmonary oedema was resolving. The patient was discharged from the hospital.	

Revisions of PRECAUTIONS (No. 352)

3

This section presents details of revisions to the PRECAUTIONS and brand names of drugs that have been revised in accordance with the Notifications dated July 4, July 17, 2024.

1 Vaccines Freeze-dried s	mallpox vaccine prepared in cell culture
Brand name	Freeze-dried Smallpox Vaccine Prepared in Cell Culture LC16 "KMB"
Brana name	(KM Biologics Co., Ltd.)
(newly added)	5. PRECAUTIONS CONCERNING INDICATIONS
(nomy dated)	Prior to vaccination to patients with human immunodeficiency virus
	infection, it should be confirmed that CD4-positive cell count is 200
	cells/µL or more. There is no experience of administering this vaccine
	to patients with human immunodeficiency virus infection whose CD4-
	positive cell count is less than 200 cells/µL.
14. PRECAUTIONS	Storage of Vaccine before Reconstitution
CONCERNING USE	Refrigerated Storage
(newly added)	(1)This vaccine can be stored at 2 to 8°C for 2 years.
	(2)Once the vaccine is moved to refrigerated storage, it should be
	used without being returned to frozen storage within the
	expiration period and within 2 years after being moved to
	refrigerated storage.
	Storage at Room Temperature
	(1)This vaccine can be stored for 4 weeks at room temperature
	(<u>37°C or below).</u>
	(2)Once this vaccine is moved to room temperature storage, it
	should be used without being returned to frozen or refrigerated
	storage within the expiration period and within 4 weeks after
	being moved to room temperature storage. Storage of Vaccine after Reconstitution
	After reconstitution with the provided diluent, the vaccine should be
	used within 24 hours when it is stored at room temperature (37°C or
	below). When the vaccine is stored refrigerated (2 to 6°C), it should
	be used within one month.
	This vaccine does not contain preservatives. Therefore, caution
	should be exercised to prevent bacterial contamination properly
	when it is reconstituted and stored in polypropylene cryotubes, etc.
	after being dispensed. The vaccine solution in a vial whose stopper
	has been removed in a non-sterile environment should be used
	immediately. The solution remaining in the vial must always be
	disposed of without being stored again and used for the next
	vaccination.
Precautions Concerning	Before reconstituting the vaccine, the container stopper and its
Administration of the	surroundings should be disinfected using alcohol. After that, the
Vaccine	vaccine should be homogeneously reconstituted with 0.5 ml of
Administration of	provided diluent. After reconstitution, the rubber stopper should be
Vaccine	removed by cutting the metal cap. The tip of the bifurcated needle

(newly added)	should be soaked in the solution, and vaccine solution appropriate for one recipient should be sucked out. In cases such as mass vaccination where a large number of persons need to be inoculated consecutively, approximately more than 250 recipients can be vaccinated if the 0.5 mL of vaccine solution is prepared by reconstituting this vaccine with 0.5 mL of provided diluent and bifurcated needles for smallpox vaccination with a single collection
	<u>volume of 1 ± 0.5 μL (specified value) are used.</u>
2 Other cardiovascul Epoprosteno	5
Brand name	Flolan for Injection 0.5 mg, 1.5 mg (GlaxoSmithKline K.K.), and the
	others
11. ADVERSE	Ascites
REACTIONS	If ascites is observed, the possibility that it may be due to this drug or
11.1 Clinically	other causes (right heart failure, liver disorder, etc.) should be
Significant Adverse	considered. If this drug is suspected to be the cause after evaluating
Reactions	possible causes for ascites, appropriate measures should be taken
(newly added)	such as dose reduction or discontinuation of this drug.

3 Enzyme preparations Pabinafusp alf	a (genetical recombination)
Brand name	Izcargo for I.V. infusion 10 mg (JCR Pharmaceuticals Co., Ltd.)
9. PRECAUTIONS	(deleted)
CONCERNING	
PATIENTS WITH	
SPECIFIC	
BACKGROUNDS	
9.5 Pregnant women	

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

Daprodustat

Brand name 9. PRECAUTIONS CONCERNING PATIENTS WITH SPECIFIC BACKGROUNDS 9.1 Patients with Complication or History of Diseases, etc. (newly added) Duvroq Tablets 1 mg, 2 mg, 4 mg, 6 mg (GlaxoSmithKline K.K.) Patients with cardiac failure or a history of the disease Exacerbation or relapse of cardiac failure may occur. The results of subgroup analyses for patients with cardiac failure or a history of the disease, which were conducted as post-hoc analyses of overseas clinical studies, were as follows: In the clinical study in patients with chronic kidney disease on dialysis, the incidence ratio of the first hospitalization for cardiac failure was 17.6% (47/267 cases) for the daprodustat group and 12.6% (32/254 cases) for the erythropoietin stimulating agents group with a hazard ratio of 1.52 (95% CI: 0.97-2.38); in the clinical study in patients with chronic kidney disease not on dialysis, the incidence ratio was 20.4% (54/265 cases) for the daprodustat group and 13.4% (34/254 cases) for the erythropoietin stimulating agents group with a hazard ratio of 1.37 (95%) CI: .89-2.11). Thus, the ratios for the daprodustat group tended to be higher in both clinical studies.

	^{ts} (genetical recombination) (genetical recombination)
Brand name	[1]Yervoy Injection 20 mg, 50 mg (Bristol-Myers Squibb K.K.) [2] Opdivo I.V. Infusion 20 mg, 100 mg, 120 mg, 240 mg (Ono Pharmaceutical Co., Ltd.)
11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions	Encephalitis, meningitis <u>, myelitis</u>

6 Other antitumor agents

Tirabrutinib hydrochloride

Brand name 7. PRECAUTIONS CONCERNING DOSAGE AND ADMINISTRATION

Velexbru Tablets 80 mg (Ono Pharmaceutical Co., Ltd.) If adverse reactions occur following administration of this drug, this drug should be discontinued temporarily or permanently, or the dose should be reduced by referring to the following criteria.

A guide for temporary/permanent drug discontinuation or dose reduction in the event of adverse reactions

Advers	se reactions*	Treatment
Skin disorders	Grade 2 Grade 3 or higher	Antihistamines, corticosteroids, etc. should be administered. If the patient recovers from adverse reactions, administration of this drug should be continued. If the patient does not recover from adverse reactions, administration of this drug should be continued by reducing the dose by one level or administration of this drug should be temporarily discontinued. Antihistamines, corticosteroids, etc. should be administered, and administration of this drug should be temporarily discontinued until adverse reactions recover to grade 2 or lower. After the recovery, administration can be resumed by reducing the dose by one level.
	Oculomucocu- taneous syndrome (Stevens- Johnson syndrome) or toxic epidermal necrolysis (TEN)	Administration should be permanently discontinued.

11. ADVERSE REACTIONS

* Grade should be in accordance with NCI-CTCAE v4.0. Severe skin disorders Severe skin disorders such as <u>toxic epidermal necrolysis (TEN)</u>,

11.1 Clinically Significant Adverse Reactions oculomucocutaneous syndrome (Stevens-Johnson syndrome), erythema multiforme, or toxic skin eruption may occur.

7 Other antitumor ac Regorafenib	
Brand name	Stivarga tablets 40 mg (Bayer Yakuhin, Ltd.)
8. IMPORTANT	Thrombocytopenia <u>, neutropenia, or leukopenia</u> may occur. Patients
PRECAUTIONS	should be carefully monitored through periodic blood tests, etc. during
	treatment with this drug.
11. ADVERSE	Thrombocytopenia <u>, neutropenia, leukopenia</u>
REACTIONS	
11.1 Clinically	
Significant Adverse	
Reactions	

8 Other diagnostic age	ents (except extracorporeal diagnostic medicines)
Gadobutrol	
Brand name	Gadovist iv injection 1.0 mol/L syringes 5 mL, 7.5 mL, 10 mL, Gadovist iv injection 1.0 mol/L 2 mL (Bayer Yakuhin, Ltd.)
11. ADVERSE	Shock, anaphylaxis
REACTIONS	Shock or anaphylaxis (decreased blood pressure, dyspnoea, loss of
11.1 Clinically	consciousness, pharyngeal/laryngeal oedema, face oedema,
Significant Adverse	respiratory arrest, cardiac arrest, etc.) may occur.
Reactions	
(newly added)	Acute respiratory distress syndrome, pulmonary oedema
	<u>If rapidly progressive dyspnoea, hypoxaemia, or chest X-ray</u>
	abnormalities such as diffuse infiltrative shadow in both lungs are
	observed, appropriate measures should be taken as necessary.

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.

Nonproprietary name Name of the MAH Date of EPPV initiate Brand name Concizumab (genetical recombination)^{*1} Novo Nordisk Pharma June 24, 0 Alhemo Subcutaneous Injection 15 mg, 60 2024 Ltd. mg, 150 mg, 300 mg Fluticasone furoate/vilanterol trifenatate June 24, 0 GlaxoSmithKline K.K. Relvar 100 Ellipta 14 doses, 30 doses 2024 Baricitinib*2 June 17. 0 Eli Lilly Japan K.K. Olumiant tablets 1 mg 2024 Zolbetuximab (genetical recombination) June 12. 0 Astellas Pharma Inc. Vyloy for I.V. infusion 100 mg 2024 Nemolizumab (genetical recombination)*3 June 11. 0 Maruho Co., Ltd. 2024 Mitchga Vials 30 mg Susoctocog alfa (genetical recombination) Takeda Pharmaceutical June 10, 0 **Obizur Intravenous Injection 500** Company Limited 2024 Benralizumab (genetical recombination) June 3. Fasenra Subcutaneous Injection 10 mg AstraZeneca K.K. 0 2024 Syringe Recombinant respiratory syncytial virus May 31, vaccine*4 Pfizer Japan Inc. 2024 Abrysvo intramuscular injection Lebrikizumab (genetical recombination) May 31, **Ebglyss Subcutaneous Injection Syringes** Eli Lilly Japan K.K. 2024 250 mg, Ebglyss Subcutaneous Injection Autoinjectors 250 mg Apadamtase alfa (genetical recombination)/ Takeda Pharmaceutical May 30, cinaxadamtase alfa (genetical recombination) Company Limited 2024 Adzynma Intravenous 1500 Cysteamine hydrochloride Viatris Pharmaceuticals May 30, Japan Inc. 2024 Cystadrops Ophthalmic Solution 0.38% Lonafarnib AnGes, Inc. May 27,

(As of June 30, 2024) ◎: Products for which EPPV was initiated after June 1, 2024

Nonproprietary name	Name of the MAH	Date of EPPV initiate
Brand name		
Zokinvy capsules 50 mg, 75 mg		2024
Elranatamab (genetical recombination) Elrexfio S.C. Injection 44 mg, 76 mg	Pfizer Japan Inc.	May 22, 2024
Capivasertib Truqap tablets 160 mg, 200 mg	AstraZeneca K.K.	May 22, 2024
Nirsevimab (genetical recombination) Beyfortus 50 mg solution for intramuscular injection in syringe, Beyfortus 100 mg solution for intramuscular injection in syringe	AstraZeneca K.K.	May 22, 2024
Belumosudil mesilate Rezurock Tablets 200 mg	Meiji Seika Pharma Co., Ltd.	May 22, 2024
Crovalimab (genetical recombination) Piasky for Injection 340 mg	Chugai Pharmaceutical Co., Ltd.	May 22, 2024
Sacubitril valsartan sodium hydrate ^{*5} Entresto Granules for Pediatric 12.5 mg, 31.25 mg	Novartis Pharma K.K.	May 22, 2024
Luspatercept (genetical recombination) Reblozyl for S.C. injection 25 mg, 75 mg	Bristol-Myers Squibb K.K.	May 20, 2024
Letermovir ^{*6} Prevymis Tablets 240 mg, Prevymis Intravenous Infusion 240 mg	MSD K.K.	May 17, 2024
Talazoparib tosilate Talzenna capsules 0.1 mg, 0.25 mg, 1 mg	Pfizer Japan Inc.	April 23, 2024
Evinacumab (genetical recombination) Evkeeza for Intravenous Infusion 345 mg	Ultragenyx Japan K.K.	April 17, 2024
Danicopan Voydeya tablets 50 mg	Alexion Pharma Godo Kaisha	April 17, 2024
Aflibercept (genetical recombination) Eylea 8mg solution for IVT inj. 114.3 mg/mL	Bayer Yakuhin, Ltd.	April 17, 2024
Efgartigimod alfa (genetical recombination)/ vorhyaluronidase alfa (genetical recombination) Vyvdura Combination Subcutaneous Injection	argenx Japan K.K.	April 17, 2024
Perampanel hydrate Fycompa for intravenous infusion 2 mg	Eisai Co., Ltd.	April 17, 2024
Benralizumab (genetical recombination) Fasenra Subcutaneous Injection 30 mg Syringe	AstraZeneca K.K.	March 26, 2024
Rifaximin Rifxima Tablets 200 mg	Aska Pharmaceutical Co., Ltd.	March 26, 2024

Brand nameFenduramine hydrochloride'7UCB Japan Co. Ltd.March 26, 2024Finelpia oral solution 2.2 mg/mLUCB Japan Co. Ltd.March 26, 2024Efgartigimod alfa (genetical recombination)16argenx Japan K.K.March 26, 2024Baricitinib'9Eli Lilly Japan K.K.March 26, 2024Olumiant tablets 2 mg, 4 mgEli Lilly Japan K.K.March 26, 2024Adsorbed diphtheria-purified pertussis- tetanus-inactivated polio-Haemophilus type b conjugate combined vaccineThe Research Foundation for Microbial Diseases of Osaka UniversityMarch 14, 2024Adsorbed diphtheria-purified pertussis- tetanus-inactivated polio-Haemophilus type b conjugate combined vaccineNovo Nordisk Pharma Ltd.February 22, 2024March 14, 2024Wagovy Subcutaneous Injection 0.25 mg SD, 0.5 mg SD, 1.0 mg SD, 1.7 mg SD, 2.4 mg SDNovo Nordisk Pharma Ltd.February 20, 2024Zillucoplan sodium Zillucoplan sodiumUCB Japan Co. Ltd.February 20, 2024Zillucoplan sodium Sa ong, 32.4 mgUCB Japan Co. Ltd.February 16, 2024Zillucoplan sodium Zillur alsartan sodium hydrate ¹¹¹ Novartis Pharma K.K.February 16, 2024Sacubitril valsartan sodium hydrate ¹¹² Nipon Boehringer Ingelheim Co., Ltd.February 9, 2024Emtresto Tablets 50 mg, 100 mg, 200 mgNovartis Pharma K.K.February 9, 2024Empagliflozin ¹¹² Nipon Boehringer Ingelheim Co., Ltd.February 9, 2024Empagliflozin ¹¹² Nipon Boehringer Ingelheim Co., Ltd.January 24, 2024Concizumab (genetical recombination) Cuvit	Nonproprietary name	Name of the MAH	Date of EPPV initiate	
Fintepla oral solution 2.2 mg/mLUCB Japan Co. Ltd.2024Efgartigimod alfa (genetical recombination)** Vyvgart for Intravenous Infusion 400 mgargenx Japan K.K.March 26, 2024Baricitinib**Clumiant tablets 2 mg, 4 mgEli Lilly Japan K.K.March 26, 2024Adsorbed diphtheria-purified pertussis- tetanus-inactivated polio-Haemophilus type b conjugate combined vaccineThe Research Foundation for Microbial Diseases of Osaka UniversityMarch 15, 2024Adsorbed diphtheria-purified pertussis- tetanus-inactivated polio-Haemophilus type b conjugate combined vaccineKM Biologics Co., Ltd.March 14, 2024Quintovac Aqueous Suspension InjectionSemaglutide (genetical recombination)*0 Wegovy Subcutaneous Injection 0.25 mg SD, 0.5 mg SD, 1.0 mg SD, 1.7 mg SD, 2.4 mg SDNovo Nordisk Pharma Ltd.February 22, 2024Zilucoplan sodium Zilbrysq Syringe for S.C. Injections 16.6 mg, 1.5 mg, 300 mgUCB Japan Co. Ltd.February 16, 2024Sacubitril valsartan sodium hydrate*** Jardiance Tablets 50 mg, 100 mg, 200 mgNovo Nordisk Pharma Ltd.February 16, 2024Sacubitril valsartan sodium hydrate*** Jardiance Tablets 10 mgNippon Boehringer Ingelheim Co., Ltd.February 9, 2024Sacubitril valsartan sodium hydrate*** Jardiance Tablets 10 mgTakeda Pharmaceutical Company LimitedJanuary 24, 2024Breading Concistore Quiviru 20% S.C. Injection 2 g/10 mL, 4 g/20 ML, 8 g/40 mLGlaxoSmithKline K.K.January 15, 2024Recombinant respiratory syncytial virus vaccine Acrevy Intramuscular InjectionGlaxoSmithKline K.K.Jan				
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Megludase for Intravenous Use 1000	Megludase for Intravenous Use 1000	00., EW.		

*1 Prevention of bleeding tendency in patients with congenital haemophilia who don't have inhibitors against blood coagulation factor VIII or IX.

*2 Polyarticular-course juvenile idiopathic arthritis in patients who have not responded sufficiently to conventional

treatments

- *3 Addition of a pediatric dosage indicated for the following diseases in patients who have not responded sufficiently to conventional treatments.
 - Pruritus associated with atopic dermatitis Prurigo nodularis
- *4 Prevention of infections caused by RS virus in individuals aged 60 years and older
- *5 Addition of a pediatric dosage indicated for chronic heart failure
- *6 Prophylaxis of cytomegalovirus infections in organ transplant recipients
- *7 Concomitant therapy with antiepileptic drugs for epileptic seizures in patients with Lennox-Gastaut syndrome who are not sufficiently responsive to other antiepileptic drugs
- *8 Chronic idiopathic thrombocytopenic purpura
- *9 Polyarticular-course juvenile idiopathic arthritis in patients who have not responded sufficiently to conventional treatments
- *10 Treatment of obesity

The use is limited to patients with either hypertension, dyslipidaemia, or type 2 diabetes mellitus who have not adequately responded to treatment with diet and exercise therapy and meet the following conditions: •BMI of 27 kg/m² or greater in the presence of at least two obesity-related comorbidities •BMI of 35 kg/m² or greater

- *11 Addition of a pediatric dosage indicated for chronic heart failure
- *12 Chronic kidney disease