# Pharmaceuticals and Medical Devices Safety Information

# No. 422 August 2025

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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



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## **Pharmaceuticals and Medical Devices Safety Information**

#### No. 422 August 2025

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

#### [ Outline of Information ]

No.	Subject	Measures	Outline of Information	Page
1	Utilization of Risk Management Plan (RMP)		In order to ensure the safety of drugs, it is important to always consider measures to properly manage risks from the development stage to the post-marketing stage. The Risk Management Plan (RMP) summarizes consistent risk management from drug development to post-marketing stages in one document in an easy-to-understand manner, to ensure implementation of the evaluations according to the progress of surveys/studies and activities to reduce risks either as needed or on a regular basis. In addition, it is expected that disclosing an RMP and widely sharing the contents of post-marketing risk management with healthcare professionals will lead to further enhancement and strengthening of post-marketing safety measures.  This document is intended to explain what an RMP is and to introduce recent developments related to an RMP.	4
2	Important Safety Information	P C	Semaglutide (genetical recombination) (and 5 others): Regarding the revision of the PRECAUTIONS of drugs in accordance with the Notification dated July 30, 2025, this section will present the details of important revisions as well as the case summary serving as the basis for these revisions.	7
3	Revisions of PRECAUTIONS (No. 362)	Р	[1] Semaglutide (genetical recombination), [2] Tirzepatide, [3] Insulin glargine (genetical recombination)/lixisenatide (and 4 others)	34
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, 2025	36

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.



(This service is available only in Japanese.)





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

#### **Abbreviations**

Appreviations	
ADR	Adverse Drug Reaction
ANCA	Anti-Neutrophil Cytoplasmic Antibody
APTT	Activated partial thromboplastin time
ASO	Anti-Streptolysin-O
BMI	Body Mass Index
CA125	Cancer Antigen 125
CEA	Carcinoembryonic Antigen
CMV	Cytomegalovirus
COVID	Coronavirus disease
CR	Complete Response
СТ	Computed Tomography
DLST	Drug-induced Lymphocyte Stimulation Test
ECOG	Eastern Cooperative Oncology Group
EPPV	Early Post-marketing Phase Vigilance
EGFR	Epidermal Growth Factor Receptor
FDG	Fluorodeoxyglucose
FY	Fiscal Year
HCV/RNA	Hepatitis C Virus-Ribonucleic Acid
HER2	Human Epidermal Growth Factor Receptor 2
HPF	High Power Field
IFN-γ	Interferon gamma
IgG	Immunoglobulin G
IL-6	Interleukin-6
irAE	Immune-related Adverse Events
MAH	
MHLW	Marketing Authorization Holder  Ministry of Health, Labour and Welfare
MPO-ANCA	
NT-proBNP	Myeloperoxidase-anti-neutrophil Cytoplasmic Antibodies
	N-terminal pro-Brain Natriuretic Peptide
PCR	Polymerase Chain Reaction
PD	Progressive Disease
PD-L1	Programmed Death-ligand 1
PIP/MIM	Pharmaceutical Industry Promotion and Medical Information
DMDA	Management Devices Assessed
PMDA	Pharmaceuticals and Medical Devices Agency
PR	Partial Response
PR-3-ANCA	Proteinase 3-ANCA
PSB	Pharmaceutical Safety Bureau
PT	Preferred Terms
PT-INR	Prothrombin Time-International Normalized Ratio
RMP	Risk Management Plan
RPR	Rapid Plasma Reagin
SMQ	Standardised MedDRA Queries
TPLA	Treponema Pallidum Latex Agglutination
VAB	Vacuum Assisted Biopsy
WF	Whole Field
β2-MG	β2-microglobulin
	·

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# **Utilization of Risk Management Plan (RMP)**

#### 1. Introduction

In order to ensure the safety of drugs, it is important to always consider measures to properly manage risks from the development stage to the post-marketing stage. The Risk Management Plan (RMP) summarizes consistent risk management from drug development to post-marketing stages in one document in an easy-to-understand manner, to ensure implementation of the evaluations according to the progress of surveys/studies and activities to reduce risks either as needed or on a regular basis. In addition, it is expected that disclosing an RMP and widely sharing the contents of post-marketing risk management with healthcare professionals will lead to further enhancement and strengthening of post-marketing safety measures.

This document is intended to explain what an RMP is and to introduce recent developments related to an RMP. Please read this document and use RMP materials more effectively in clinical practice.

#### 2. What is an RMP

An RMP is a document that summarizes (1) important adverse reactions that are clearly related or suspected to be related to drugs and missing information (safety specifications), (2) post-marketing information collection activities (pharmacovigilance activities), and (3) efforts to reduce risks of drugs such as provision of information to healthcare professionals and setting of conditions for use (risk minimization activities) for individual drugs.

Activities to reduce/avoid risks, such as examining how to provide information on risks and missing information described in the RMP, are referred to as risk minimization activities. Risk minimization activities are divided into the activities performed for all drugs (routine risk minimization activities) and those performed based on the characteristics of drugs (additional risk minimization activities). Providing information through package inserts and drug guides for patients is included in routine risk minimization activities. On the other hand, setting conditions for use and providing information through materials, etc. are examples of additional risk minimization activities. RMP materials include materials for patients that explain subjective symptoms of adverse reactions in plain language, and materials for healthcare professionals that summarize information necessary for the proper use of drugs.

The contents of these RMP materials were checked by the PMDA during the preparation process and are indicated by the "RMP mark" to distinguish them from other materials prepared by marketing authorization holders. Healthcare professionals are encouraged to identify RMP materials by locating the "RMP mark" and to proactively utilize these materials.

Risk Management Plan (RMP)

This material is positioned as part of RMP



Also, please refer to materials that explain RMP in an easy-to-understand manner on the PMDA website.

✓ "Learn about RMP in 3 Minutes" (only in Japanese)

This is an A4-size double-sided document that explains RMP.

✓ "Simple Enough to Start! How to use RMP" (only in Japanese)

This is e-learning content in which a hospital pharmacist explains RMP and the materials prepared and provided for additional risk minimization activities through videos. The contents consist of two topics: "What's RMP?" and "Let's Try RMP!" and anyone can view them free of charge.

PMDA website: Risk Management Plan (in Japanese)



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

#### 3. Medication instructions and pharmaceutical management based on RMP

At the Central Social Insurance Medical Council for the revision of medical service fees in FY 2024, the following data were presented:

- In pharmacies, materials based on the RMP for patients have been used for explanations to patients in situations where more thorough medication instructions are required.
- Utilization of information materials for patients based on the RMP in medication instruction has led to patients' behavior of securing safety.

In the revision of medical service fees in FY 2024 (dispensing fee), analysis and evaluation using the RMP were added to the requirements for calculation of the dispensing management fee, and an additional fee for providing instructions using RMP materials for patients (additional fee for specified medication instruction 3 a) was established.

Utilizing RMP information to analyze the content of prescriptions and provide instructions and management in medical practice is expected to lead to higher-quality pharmaceutical management and instruction and post-marketing safety measures.

# 4 Review of the RMP system in association with the revision of the Pharmaceuticals and Medical Devices Act in 2025

Since products with limited safety information at the time of approval and drugs manufactured using new technologies have been increasing, it is important to reform the system to focus on collecting information in a planned manner based on the RMP to consider the safety measures instead of widely collecting and reporting adverse reactions, etc. and to establish a system for more effective implementation of risk-based safety measures.

Under the current Act on Securing Quality, Efficacy and Safety of Products Including Pharmaceuticals and Medical Devices (hereinafter referred to as "the Pharmaceuticals and Medical Devices Act"), the preparation of an RMP is specified as a condition for marketing approval of drugs, etc. This condition can be lifted when the contents of activities based on the plan were confirmed at the time of re-examination of the approval. However, there is an inconvenience that safety measures based on RMP will be uniformly completed after the condition for approval has been lifted.

Therefore, in the revision of Pharmaceuticals and Medical Devices Act in 2025, it was decided that preparation, reporting, and implementation of the RMP when necessary, including in the case where it is required in post-marketing settings, would be specified as an obligation in the Pharmaceuticals and Medical Devices Act, rather than specifying implementation of risk management based on the RMP as a condition for approval, so that prompt action can be taken according to the characteristics of drugs or risks when any safety concern occurs.

This revision is supposed to be enforced within 2 years after the promulgation of the revised

Pharmaceuticals and Medical Devices Act (May 21, 2025), and detailed examination of the system is currently underway toward the enforcement.

#### 5. Conclusion

Drugs can be used more effectively and safely through the accumulation of post-marketing experience after approval, which is granted based on limited data, including clinical study results. It is extremely important for healthcare professionals, by utilizing the RMP in medical practice, to understand what important safety concerns (safety specifications) and efficacy specifications exist at this point in time, on what grounds they have been established, and what kinds of activities, and for what purposes, are planned and implemented for them. This is essential to promote the proper use of drugs and ensure patient safety.

In addition to RMP and RMP materials, various tools, such as drug guides for patients, are available on the PMDA website (only in Japanese). We encourage you to use these tools and cooperate further in safety measures for drugs.

#### 6. Reference

- Risk Management Plan (RMP)
   https://www.pmda.go.jp/safety/info-services/drugs/items-information/rmp/0002.html (in Japanese)
   https://www.pmda.go.jp/english/safety/info-services/drugs/rmp/0001.html (in English)
- General Assembly of the Central Social Insurance Medical Council on November 29, 2023 (the 568th assembly) So-2

https://www.mhlw.go.jp/content/12404000/001172376.pdf (only in Japanese)

- Summary of Revision of Medical Service Fees (Dispensing) in 2024 https://www.mhlw.go.jp/content/12400000/001238903.pdf (only in Japanese)
- Summary on System Reform of Pharmaceuticals and Medical Devices Act, etc. (January 10, 2025, the Subcommittee for Pharmaceuticals and Medical Devices Regulation of the Health Science Council of MHLW)

https://www.mhlw.go.jp/content/11120000/001371285.pdf (only in Japanese)

• Promulgation of the Act Partially Amending the Act on Securing Quality, Efficacy and Safety of Products Including Pharmaceuticals and Medical Devices (PSB Notification No. 0521-1 and PIP/MIM Notification No. 0521-4 dated May 21, 2025)

https://www.mhlw.go.jp/content/11120000/001491554.pdf (only in Japanese)

(2.I.1.(9) Matters related to preparation, etc. of plans for collection, etc. of information on the safety and efficacy of drugs)

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# **Important Safety Information**

Regarding the revision of the PRECAUTIONS of package inserts of drugs in accordance with the Notification dated July 30, 2025, this section will present the details of important revisions as well as the case summary serving as the basis for these revisions.

# 1 Semaglutide (genetical recombination)

Brand name (name of company)	Ozempic Subcutaneous Injection 2 mg (Novo Nordisk Pharma Ltd.)
Therapeutic category	Other hormone preparations (including antihormone preparations), antidiabetic agents
Indications	Wegovy Subcutaneous Injection     Obesity     For use only in patients with any of hypertension, hyperlipidemia or type 2 diabetes mellitus who have not responded sufficiently to diet therapy and exercise therapy, and who 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     •Ozempic Subcutaneous Injection, Rybelsus tablets     Type 2 diabetes mellitus

#### PRECAUTIONS (Revised language is underlined.)

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

<u>Patients with a medical history of abdominal surgery or ileus</u> lleus, including intestinal obstruction, may occur.

(newly added)
11. ADVERSE
REACTIONS
11.1 Clinically
Significant Adverse
Reactions
(newly added)

Reference information

<u>lleus</u>

<u>lleus</u>, including intestinal obstruction, may occur. If any abnormalities <u>such</u> as <u>severe</u> constipation, <u>abdominal</u> distension, <u>persistent</u> abdominal pain, or vomiting are observed, administration of this drug <u>should</u> be discontinued, and appropriate measures should be taken.

Number of cases (for which a causal relationship between the drug and the event is reasonably possible) that fell under SMQ "gastrointestinal obstruction," those falling under the PTs of "impaired gastric emptying," "oesophageal obstruction," "necrotising oesophagitis," or "gastric volvulus," excluding those whose site of onset of the adverse event is not intestinal, among those collected in the PMDA's safety database for drugs

Cases involving ileus reported in Japan:

7 (including 1 case in which the drug was administered outside the approved indications) (No patient mortalities)
Number of patients using the drug as estimated by the MAH during the previous 1-year period: Approximately 112,000
Japanese market launch: May 2022

		Patient	Daily dose/		Adverse reaction
No.	Sex/ age	Reason for use (complication)	Administration duration	(	Clinical course and treatment
1	Male 50s	Type 2 diabetes mellitus	0.5 mg once a week	Ileus	
	000	(hypertension, hepatic steatosis, gallstones)	1.0 mg	Before start of administration	Previous treatment drugs: Dulaglutide (genetical recombination), metformin, dapagliflozin propylene glycolate hydrate
			↓ Discontinuation ↓ 0.5 mg once a week	Day 1 of administration	Administration of semaglutide (genetical recombination) 0.5 mg/week was initiated. Administration of metformin and dapagliflozin propylene glycolate hydrate was continued.
				Day 14 of administration	The dose of semaglutide (genetical recombination) was increased to 1.0 mg/week. Abdominal pain and queasy began to appear after use.
				Day 42 of administration	Abdominal distension was present. The patient had bowel movements, but he complained of constipation at the time of the outpatient visit.
				Day 98 of administration	The patient complained of constipation and abdominal distension at the time of the outpatient visit.
				Day 119 of administration (day of discontinuation)	Aggravation of abdominal distension and vomiting were present. The patient visited the surgery department and was admitted to the hospital with a diagnosis of ileus. A CT scan revealed a niveau in the small intestine (+), gas in the colon, and intraperitoneal free air (-). Volvulus of the bowel was not observed on a CT scan. Administration of semaglutide (genetical recombination) was discontinued. The symptoms improved with fasting and greatic tube insertion.
				4 days after discontinuation	gastric tube insertion.  The patient started eating.
				6 days after discontinuation	Ileus resolved, and the patient was discharged from the hospital.
				35 days after discontinuation	Administration of semaglutide (genetical recombination) 0.5 mg/week was restarted.
	Concomita	ant drugs: Metformin, dap	pagliflozin propyler	ne glycolate hydrate	, nifedipine CR, telmisartan

## 2 Tirzepatide

Brand name (name of company)	Mounjaro Subcutaneous Injection 2.5 mg Ateos, 5 mg Ateos, 7.5 mg Ateos, 10 mg Ateos, 12.5 mg Ateos, 15 mg Ateos (Eli Lilly Japan K.K.)
Therapeutic category	Other hormone preparations (including antihormone preparations), antidiabetic agents
Indications	•Zepbound Subcutaneous Injection Obesity For use only in patients with any of hypertension, hyperlipidemia or type 2 diabetes mellitus who have not responded sufficiently to diet therapy and exercise therapy, and who 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 •Mounjaro Subcutaneous Injection Type 2 diabetes mellitus

#### PRECAUTIONS (Revised language is underlined.)

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

Patients with a medical history of abdominal surgery or ileus lleus, including intestinal obstruction, may occur.

11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions

Reactions
(newly added)
Reference information

lleus

<u>lleus, including intestinal obstruction, may occur. If any abnormalities such as severe constipation, abdominal distension, persistent abdominal pain, or vomiting are observed, administration of this drug should be discontinued, and appropriate measures should be taken.</u>

Number of cases (for which a causal relationship between the drug and the event is reasonably possible) that fell under SMQ "gastrointestinal obstruction," those falling under the PTs of "impaired gastric emptying," "oesophageal obstruction," "necrotising oesophagitis," or "gastric volvulus," excluding those whose site of onset of the adverse event is not intestinal, among those collected in the PMDA's safety database for drugs

Cases involving ileus reported in Japan: 2 (No patient mortalities) Number of patients using the drug as estimated by the MAH during the previous 1-year period: Approximately 581,900 Japanese market launch:

- [1] Subcutaneous Injection 2.5 mg Ateos, 5 mg Ateos: April 2023
- [2] Subcutaneous Injection 7.5 mg Ateos, 10 mg Ateos, 12.5 mg Ateos, 15 mg Ateos: June 2023

		Patient	Daily dose/	Adverse re	eaction
No.	Sex/	Reason for use	Administration	Clinical course a	nd treatment
1	age Female	(complication) Type 2 diabetes	duration 2.5 mg		
·	70s	mellitus	once a week	Intestinal obstruction (paralytic)	A doctor to the state of the same at the
		(hypertension, lipid metabolism disorder,	↓ Discontinuation	Day 1 of administration	Administration of tirzepatide was initiated after switching from dulaglutide.
		hyperuricaemia)		Day 266 of administration	No particular abnormality was present. No pyrexia was present.
				Around Day 284 of administration	Abdominal distension was observed.
				Day 291 of administration	The patient visited the hospital for abdominal distension. An abdominal X-ray showed marked small intestinal gas. Flatus was noted, and no tenderness was present. Vital signs were normal. Administration of tirzepatide was continued. No pyrexia was present.
				Day 293 of administration	Since the small intestinal gas decreased, the patient was advised to undergo endoscopy in consideration of tumorous changes in the large intestine, etc., but she refused the procedure.  An abdominal and pelvic CT scan showed small intestinal gas. No other abnormalities that could cause intestinal obstruction or tumorous changes in the large intestine were noted.  This event was diagnosed as paralytic intestinal obstruction.  Administration of a macrogol/sodium chloride/sodium bicarbonate/potassium chloride combination drug 13.704 g/day was initiated for treatment.
				Day 297 of administration  Day 305 of administration (day of discontinuation)	The patient was admitted to another hospital for aggravation of abdominal symptoms.  She did not undergo endoscopy even during hospitalization. A CT scan was performed under fasting conditions, and her clinical course was observed.  Intestinal obstruction (paralytic) resolved.  Administration of tirzepatide was discontinued. The patient was subsequently discharged from the
				6 days after discontinuation	hospital.  There was no pyrexia, no significant change in blood pressure, or no marked change in heart rate.

Laboratory test value			
Test item (unit)	Day 266 of administration	Day 291 of administration	6 days after discontinuation
Blood pressure (mmHg)	130/80	130/80	-
Heart rate (beats/min)	78	78	-
Red blood cell count (×10 <sup>4</sup> /mm <sup>3</sup> )	392	435	358
Haemoglobin (g/dL)	12.7	13.3	11.6
Haematocrit (%)	35.8	41.1	32.8
Platelet count (×10 <sup>4</sup> /mm <sup>3</sup> )	26.9	32.1	26.4
White blood cell count (/mm³)	10,900	11,100	7,700
Ca19-9	-	38.3	-
CEA	-	3.4	-

Concomitant drugs: Valsartan, pitavastatin calcium, febuxostat, amlodipine besilate, famotidine, adenosine triphosphate disodium hydrate, betahistine mesilate, shakuyakukanzoto

Ţ		Patient	Daily dose/	Adverse	reaction
No.	Sex/	Reason for use	Administration	Clinical course	and treatment
2	age Male	(complication) Type 2 diabetes	duration 2.5 mg	Paralytic ileus	
	50s	mellitus (no complication)	once a week	Day of administration	Administration of tirzepatide was initiated.
			Discontinuation	Day 1 of administration	The patient started to have a churning of the stomach. He vomited. Right flank pain was gradually aggravated.
				Around Day 2 of administration (day of discontinuation)	The patient was transported by ambulance and admitted to the hospital. At the time of transportation, abdominal distension was prominent. An abdominal X-ray showed expansion of small intestinal gas. Niveau formation was observed. CT and abdominal X-ray findings: Ileus. He was diagnosed with paralytic ileus. A nasogastric tube was inserted, and administration of cefmetazole 1 g twice a day was initiated. Administration of tirzepatide, luseogliflozin hydrate, and metformin hydrochloride was discontinued, and only sitagliptin phosphate hydrate was continued. Blood sugar and blood pressure remained between 110 and 180 mg/dL and around 120/80 mmHg, respectively.
				1 day after discontinuation	The patient felt better the day after admission.
				2 days after discontinuation	The tube was replaced with an ileus tube, and drainage was continued.
				9 days after discontinuation	Resolution of ileus was confirmed, and an ileus tube was removed.
				11 days after discontinuation	The patient started eating (low-residue diet: 1,400 Kcal).
				Date unknown	Administration of daikenchuto and mosapride citrate hydrate was initiated for bowel movement control.
	Canaani	topt druge: Luccedi	florin hydrata, m	13 days after discontinuation 16 days after discontinuation	Paralytic ileus resolved.  The symptoms did not relapse, and the patient was discharged from the hospital.  Daikenchuto and mosapride citrate hydrate were continuously administered.  After the discharge from the hospital, luseogliflozin hydrate, metformin hydrochloride, and sitagliptin phosphate hydrate were prescribed for the treatment of diabetes mellitus.

### 3 Afatinib maleate

Brand name (name of company)	Giotrif Tablets 20 mg, 30 mg, 40 mg (Nippon Boehringer Ingelheim Co., Ltd.)
Therapeutic category	Other antitumor agents
Indications	Unresectable or recurrent <i>EGFR</i> mutation-positive non-small-cell lung cancer

PRECAUTIONS (Revised language is underlined.)

11. ADVERSE
REACTIONS
11.1 Clinically
Significant Adverse
Reactions
(newly added)
Reference information

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

database for drugs

Anaphylaxis

Cases involving anaphylaxis 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 1,650

Japanese market launch: May 2014

		Patient	Daily dose/		Adverse reaction
lo.	Sex/ age	Reason for use (complication)	Administration duration		Clinical course and treatment
1	Female 50s	Non-small cell lung cancer	30 mg for 3 days	Anaphylactic sh	ock
	505	(none)	ioi 3 days	6 days before administration	The patient started receiving whole brain irradiation for brain metastases of lung cancer. Concentrated glycerin for injection 200 mg and dexamethasone 3.3 mg were initiated for prevention of brain oedema.
				Day 1 of administration	The patient was admitted to the hospital fo the introduction of afatinib maleate as the treatment of lung cancer (7th line) and started receiving it.  Administration of hangeshashinto 7.5 g was initiated for prevention of diarrhoea.
				Day 2 of administration	Wheals appeared on the face, upper extremities, etc. The skin eruption disappeared approximately 1 hour after administration of 1 tablet of chlorpheniramine 2 mg.
				Day 3 of administration (day of discontinuation)	Two tablets of chlorpheniramine 2 mg divided into 2 doses were administered. Around 3 hours after administration of afatinib maleate, redness and wheals appeared around the face and nose, on th thighs, and on the abdomen, which were aggravated to generalized erythema in several minutes. SpO <sub>2</sub> was 95% (no dyspnoea), body temperature was 36.8 degrees C, and systolic blood pressure decreased to the 50-69 mmHg range. Intramuscular injection of adrenaline 0.3 mg, and drip infusion of hydrocortisone 20 mg, famotidine 20 mg, and chlorpheniramine 5 mg were administered Approximately 1 and a half hours after the onset of the symptoms, blood pressure recovered to the 100 mmHg range. The rash/skin eruption tended to disappear. Administration of afatinib maleate, hangeshashinto, and chlorpheniramine tablets was discontinued.
				2 days after discontinuation	Drip infusion of chlorpheniramine injection famotidine injection, and hydrocortisone injection was terminated.  The skin eruption was improving to the extent that it was seen only around the lips
	Suspected Concomita	t t	Concentrated glycer lydrochloride, esor	neprazole magnesi te, mecobalamin, d	ethasone sodium phosphate, chlorpheniramin ium hydrate, rebamipide, dextromethorpha iquafosol sodium, loxoprofen sodium hydrate

Test item (unit)  Lay 2 or administration (day of discontinuation)  Creatinine (mg/dL)  C-reactive protein (mg/dL)  0.98  8.80  1 aday after discontinuation or readministration discontinuation or readministration or readminist	L		Patient	Daily dose/			Adverse rea	action	
for 7 days   30 mg for 8 days   Discontinuation   20 mg for 4 days   Discontinuation   20 mg for 1 day   Discontinuation   20 mg for 3 day   Discontinuation   20 mg for 4 day   Discontinuation   20 mg for 6 day   Discontinuation   20 mg for 1 day after discontinuation   20 mg for 1 day   Discontinuation   20 mg for 1 day   Discontinuation   20 mg for 1 day   Discontinuation   20 mg for 1 day after discontinuation   20 mg for 1 day	lo.				n	Cli	nical course an	d treatment	
Continuation   Cont		age Male	(complication) Lung adenocarcinoma	duration  40 mg for 7 days  30 mg for 6 days  Discontinuati  20 mg for 4 days  Discontinuati  20 mg for 1 day	6 year start of admirent on Day 1 admirent Day 2 admirent Day 4	of of histration	Administration was initiated. The dose was skin eruption of administration enanthema on administration. It improved aft prednisolone 3 Since the previous to PD (proadministration was initiated. The patient vis and queasy. Since the same hous determined to received meto.	of afatinib mal decreased to a on the 7th day of was discontine the 13th day of er a short-term 30 mg. ious discontine gressive disea of afatinib mal sited the hospit ince his family sehold had pyr have an infect clopramide and	30 mg due to of ued due to of use of uation was no use), eate 20 mg all for pyrexia member in exia, he was ion and difamotidine.
Test item (unit)  Day 2 of administration  Day 4 of administration  Day 2 of administration  Creatinine (mg/dL)  C-reactive protein (mg/dL)  0.98  8.80  Day 4 of administration  1 day after discontinuation of readministration  readministration  Day 1 of readministration  To administration  The symptoms improved.  1 day after discontinuation of readministration of readministration of readministration readministration  1 day after discontinuation of readministration of readministration readministration readministration readministration of readministration readministration readministration readministration of readministration read					9 day discool (day readin day o discool	of ntinuation) s after ntinuation I of ninistration, f ntinuation of	vomiting, and afatinib malear clinical course replacement a general antibic and the sympt Since the sym maleate 20 mg inpatient settin vomiting, and approximately administration creatinine level patient was de	diarrhoea. Adnite was discontite was observed administratiotic (sulbactamoms gradually ptoms improved was administing. Remarkable diarrhoea relap 30 minutes affi. Pyrexia and itels also occurrectermined to has	ninistration of inued. His with fluid ion of a /ampicillin), improved.  Individual ion and e queasy, osed iver increased ed, and the ive allergies.
Test item (unit)  Day 2 of administration (day of discontinuation)  Creatinine (mg/dL)  1 day after discontinuation readministration  1 day after discontinuation or readministration  1 day after discontinuation or readministration  1 day after discontinuation or readministration  2 2.45  1.67  3.64  1.67	-	Laborato	ry test value	Day 4 of	disco	ntinuation of	prednisolone s metoclopramic The symptoms	50 mg, acetam de were admini s improved.	inophen, and stered.
C-reactive protein (mg/dL)         0.98         8.80         13.42         1.14         7.29         0.52         -		,	administration	administration (day of discontinuation)	iscontinuation	readministration	discontinuation of readministration	discontinuation of readministration	44 days after discontinuation or readministration
(mg/dL) 0.98 8.80 13.42 1.14 7.29 0.52 -				3.49	2.45	1.67	3.64	1.67	-
			rotein 0.98	8.80	13.42	1.14	7.29	0.52	-
DLST Positive	J	(ma/dl )							

		Patient	Daily dose/		Adverse reaction		
No.	Sex/ Reason for use age (complication)		Administration duration	Clinical course and treatment			
3	Female 50s	Right middle lobe lung cancer	40 mg for 1 day	Anaphylaxis			
	305	(multiple brain metastases, bronchial asthma)	IOI I day	Day 1 of administration (day of discontinuation)	Administration of afatinib maleate was initiated.  Two hours and 15 minutes after administration, abdominal pain developed. Two hours and 30 minutes after administration, a map-like skin eruption developed on the forearms, and skin eruption developed on the face. Dyspnoea (SatO₂ 97%→92%), palpitations (+), decreased blood pressure (136/78 mmHg before administration), conjunctival swelling (+), hyperaemia (+), oral redness (+), increased pulse rate (78 bpm before administration).  The patient started receiving 2 L of oxyger and received betamethasone sodium phosphate 4 mg (1A). D-chlorpheniramine maleate (1A) and famotidine (1A) were administered by drip infusion.  Two hours and 40 minutes after administration, blood pressure was 111/75 mmHg, and pulse rate was 104 bpm.  Two hours and 50 minutes after administration, she had symptoms of diarrhoea. The skin eruption slightly abate after excretion. A bifidobacterial preparation was administered.  Three hours and 40 minutes after administration, SatO₂ was 93%-94% (unde 2 L of oxygen). The skin eruption on the face and erythema on the upper extremitied disappeared. Blood pressure was 126/84 mmHg.  Seven hours after administration, blood pressure was 130/84 mmHg, and pulse rate was 82 bpm. She was off oxygen after confirmation of SatO₂ of 97% (room air). Administration of afatinib maleate was discontinued. Anaphylaxis and diarrhoea resolved.  Blood pressure was 126/80 mmHg.		
	Ī			discontinuation	1		

### 4 Fulvestrant

Brand name (name of company)	Faslodex Intramuscular Injection 250 mg (AstraZeneca K.K.)
Therapeutic category	Other antitumor agents
Indications	Breast cancer

PRECAUTIONS (Revised language is underlined.)

11. ADVERSE

**Anaphylaxis** 

REACTIONS 11.1 Clinically Significant Adverse

Reactions (newly added)

Reference information

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

database for drugs

Cases involving anaphylaxis reported in Japan:6(No patient mortalities) Number of patients using the drug as estimated by the MAH during the

previous 1-year period: Approximately 15,600 Japanese market launch: November 2011

		Patient	Daily dose/	Adverse reaction			
No.	Sex/ age	Reason for use (complication)	Administration duration	Clini	ical course and treatment		
1	Female 70s	Female breast cancer (hypertension, osteoporosis, osteoarthritis, constipation, depression)	500 mg once every 4 weeks 1,178 days ↓ Discontinuation		The patient was diagnosed with female breast cancer. She underwent a right mastectomy.  The patient underwent chest wall lymph		
				administration 13 days before administration	node metastasis resection.  The patient received 60 Gy of radiotherapy to the right parasternal lymph nodes. (until 12 days after administration of fulvestrant).		
				Day 1 of administration  3 years and 3 months after administration (day of discontinuation)	Administration of fulvestrant was initiated.		
				47 minutes before administration	BP was 111/82 mmHg, and pulse rate was 75 (beats/min). The patient showed no change in her physical condition, and there were no noteworthy findings at the time of medical examination.		
				At the time of administration	With the patient in a prone position, fulvestrant (2 syringes) was administered in the bilateral buttocks.  During the administration, she said that she was "going to cough," and mild cough was observed.  After the completion of administration, she stood up and began to complain of feeling mildly poorly while wearing shoes. Although she took a sitting position on the bed, she kept her eyes closed. She responded, but her consciousness was slightly hazy. The patient gradually became unable to maintain an upright posture and tilted backward. Therefore, bed rest and leg elevation were performed. Her vital signs immediately after that showed BP of 72/45 mmHg, pulse rate of 62 (beats/minute), and SpO <sub>2</sub> of 95%. Anaphylactic shock, decreased blood pressure, staggering, and facial pallor were observed. No mucocutaneous symptoms were observed.  After bed rest, her consciousness rapidly became clear.  Intravenous drip infusion of physiological saline 500 mL was initiated.		
				10 minutes after administration 23 minutes after administration	BP was 81/44 mmHg.  BP was 97/55 mmHg, and pulse rate was 65 (beats/min).  Intravenous drip infusion of Sol-Melcort 125 mg and physiological saline 500 mL		
				Unknown	was initiated.  BP was 115/70 mmHg, and feeling poorly disappeared.		

		Patient		Daily dose/	Adverse reaction					
No.	Sex/ age	1 (0000011101 000		Administration duration	Clinical course and treatment					
					1 hour and 45 minutes after administration		ic shock, decreas taggering, feeling lved.			
					2 hours and 35 minutes after administration	35 minutes after hospital, the				
					Fulvestrant was no readministered.	ot				
	Laborato	Laboratory test value								
		Test item (unit)  3 years and 2 months after administration				,	ninistration (day of discontinuation)			
	Test ite			er 4/ minutes	At the time of	10 minutes after administration	23 minutes after administration	Unknown		
	Pulse rat (beats/m	-	86	75	62	-	65	-		
		Systolic blood pressure (mmHg)		'   126   111		111	72	81	97	115
	Diastolic blood pressure (mmHg)		86	82	45	44	55	70		
	SpO2 (%)		-	-	95	-	-	-		

		Patient	Daily dose/			
No.	Sex/ age	Reason for use (complication)	Administration duration	Clinical course and treatment		
2	Female 50s	Female breast cancer (none)	500 mg once every 4 weeks ongoing	Anaphylaxis Past history, allergy history, concomitan 3 years and 3 months before administration	history, adverse drug reaction history, family t drugs: None  The patient made the first visit to the hospital for right breast cancer (T3, N+, M0).  VAB: 1DC, NG2, ER/PgR/HER2: 8/0/0, Ki67: 77%.	
				3 years and 2 months before administration 3 years before	The patient received 4 cycles of EC as preoperative chemotherapy (for 2 months).  Paclitaxel was administered as	
				administration	preoperative chemotherapy (weekly) (for 10 weeks).	
				2 years and 8 months before administration	The patient underwent a right mastectomy and axillary clearance. The pathological findings were scirrhous carcinoma. ypT: 9.8 cm, NG1, S+, ly1, V0, ypN+	
				2 years and 7 months before administration	Radiotherapy was initiated. The patient received irradiation to the right chest wall with 50 Gy/25 Fr.	
				1 month before administration	Recurrence in the right chest wall and left axillary lymph nodes was noted.	
				Day 1 of administration	Administration of fulvestrant was initiated.	
				Date unknown	The response rate was PR to SD.	
				2 years after administration	At the time of administration of fulvestrant, consecutive sneezing, flushed face, and redness from the upper extremities to the precordial region were observed, and allergic rhinitis and allergic dermatitis developed. No dyspnoea was present. Itching improved within 15 minutes. All symptoms resolved within 20 minutes after the onset, and the patient went home without any problem.  There was no problem with fulvestrant thereafter.	
				2 years and 8 months after administration		
				Approximately 1 minute after administration	Approximately 1 minute after administration of fulvestrant, anaphylaxis developed with queasy, abdominal pain, dyspnoea, mild pharyngeal wheezing, flushed face, palpebral conjunctival hyperaemia, and extensive erythema on the lower body. HR: 110, BP: 87/53 mmHg, SpO <sub>2</sub> : 99%, RR: 16.	
				4 minutes after	Adrenaline 0.3 mg was intramuscularly	
				administration 15 minutes after administration	injected.  HR: 108, BP: 83/53 mmHg, SpO <sub>2</sub> : 99%, RR: 12.	
				30 minutes after administration	The symptoms almost completely disappeared. HR: 68, BP: 109/56 mmHg, SpO <sub>2</sub> : 99%, RR: 12.	
				40 minutes after administration 42 minutes after	Anaphylaxis resolved.  The patient went home with a prescription	
				administration	of Polaramine 2 mg 1 tablet 3 times a day.	
				Date unknown	Despite readministration of fulvestrant, no recurrence was noted.	

		Patient	Daily dose/	Adverse reaction				
No.	Sex/ Reason for use age (complication)		Administration duration	Clinic	cal course and treatme	ent		
				A	dministration of fulves	trant was ongoing.		
	Laborato	ory test value						
				2 years and 8 months after administration				
		Test item (unit)		Approximately 1 minute after administration	15 minutes after administration	30 minutes after administration		
	Heart rat	te (HR) (bpm)		110	108	68		
	Blood pr	essure [systolic/diastolic	] (BP) (mmHg)	87/53	83/53	109/56		
	Respirat	ory rate (RR) (breaths/m	in)	16	12	12		
	SpO <sub>2</sub> (%)			99	99	99		
	Concomitant drugs: None							

## 5 Sunitinib malate

Brand name (name of company)	Sutent Capsule 12.5 mg (Pfizer Japan Inc.) and the others			
Therapeutic category	Other antitumor agents			
	·Imatinib-resistant gastrointestinal stromal tumour			
Indications	·Radically unresectable or metastatic renal cell carcinoma			
	·Pancreatic neuroendocrine tumour			

#### PRECAUTIONS (Revised language is underlined.) Hyperammonaemia

11. ADVERSE **REACTIONS** 11.1 Clinically

Hyperammonaemia may occur even in the absence of abnormal

**Significant Adverse** 

hepatic function. If disturbed consciousness is observed, measurement

Reactions (newly added) of blood ammonia levels should be considered.

Reference information

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

database for drugs

Cases involving hyperammonaemia reported in Japan: 1 (No patient

mortalities)

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

previous 1-year period: Approximately 1,563

Japanese market launch: June 2008

-	Patient		Daily dose/	Adverse reaction			
No.	Sex/ age	Reason for use (complication)	Administration duration	Clinical course and treatment			
1	Male 70s	Gastrointestinal stromal tumour, pancreatic neuroendocrine tumour	37.5 mg for 8 days  Jiscontinuation  25 mg for 5 days  Discontinuation  25 mg for 1 day  Discontinuation	Hyperammonaemia Past history: Chronic Height: 170-179 cm r Day 1 of administration  Day 6 of administration  Day 8 of administration (day of discontinuation)	hepatitis C ange, Weight: 50-59 kg range  Administration of sunitinib malate 37.5 mg once daily was initiated for gastrointestinal stromal tumour and pancreatic neuroendocrine tumour.  Inconsistent speech and behavior were noted. Hyperammonaemia developed.  Disturbed consciousness was observed and administration of sunitinib malate was discontinued.  Administration for an amino acid preparation for hepatic failure was initiated.  Although the patient had a history of		
				7 days after discontinuation (Day 1 of readministration)	hepatitis, no HCV/RNA was detected, and reactivation was ruled out.  Since disturbed consciousness improved, administration of an amino acid preparation for hepatic failure was discontinued. The dose of sunitinib malate was reduced to 25 mg, and once daily administration was resumed.		
				Day 5 of readministration (day of discontinuation of readministration)  11 days after discontinuation of	Administration of sunitinib malate was discontinued. Administration of an elemental diet for hepatic failure was initiated.  Administration of the elemental diet for hepatic failure was discontinued.		
				readministration 21 days after discontinuation of readministration (Day 1 of re- readministration)	Administration of sunitinib malate 25 mg once every other day was resumed.		
				Day 2 of re- readministration (day of discontinuation of re-readministration)	Disturbed consciousness was observed and administration of sunitinib malate was discontinued. Administration of an amino acid preparation for hepatic failure was resumed.		
				5 days after discontinuation of re-readministration 9 days after	A CT scan was performed, showing no findings that could cause hepatic function disorder.  Administration of an amino acid		
				discontinuation of re-readministration  12 days after discontinuation of re-readministration	preparation for hepatic failure was terminated.  Disorientation was observed, and administration of an amino acid preparation for hepatic failure was resumed.		
				16 days after discontinuation of re-readministration 31 days after discontinuation of	Disturbed consciousness improved.  Administration of regorafenib hydrate was initiated.		
				re-readministration 36 days after discontinuation of re-readministration	On Day 6 of regorafenib hydrate administration, disturbed consciousness was noted.		

		Pati	ent	Daily dose/				Adv	erse reaction	
No.	Sex/ age		ason for use omplication)	Administration duration	n	Clinical course and treatment				
								ALT Adm was amin	13 IU/L) inistration of regodiscontinued. Ad	µg/dL, AST 22 IU/L, orafenib hydrate ministration of an on for hepatic failure
					dis re-	days afte continua readmini	tion of stration	hydra Elect findir Adm prep term L-glu	ate. troencephalograj ngs such as epile inistration of an a aration for hepat inated. Administr utamate hydrate v	ation of regorafenib ohy showed no epsy. amino acid ic failure was ation of L-arginine was started.
					dis	days afte continua readmini	tion of	hydra disco (bloc	ate was discontir ontinuation of reg	ginine L-glutamate nued 9 days after porafenib hydrate. g/dL, AST 24 IU/L,
					dis re-	days afte continua readmini	tion of stration	No d obse rego (AST	isturbed conscio erved 19 days aft rafenib hydrate. 「19 IU/L, ALT 8	er discontinuation of IU/L)
					dis	days afte continua readmini	tion of	after hydra funct	erammonaemia r discontinuation ate. There was n tion disorder, and narged from the l	of regorafenib o relapse of hepatic If the patient was
	Laborato	ry tes	st value		•					•
	Test item		Before administration (Day 1 of administration)	Day 7 of administration	admini (da	8 of stration by of inuation)	2 days at discontinua		7 days after discontinuation (Day 1 of readministration)	Day 5 of readministration (day of discontinuation of readministration)
	Blood am (µg/dL)		-	-	2	01	209		99	175
	AST(IU/L) ALT(IU/L)	1	49 65	88 121		<u>-</u> -	72 94		87 99	54 79
	Test item	(unit)	11 days after discontinuation readministration	Day 2 c	stration Intinuation	discontin	ays after nuation of re- ninistration		16 days after continuation of re-eadministration	24 days after discontinuation of re- readministration
	Blood am (µg/dL)	monia	65	160			218		103	74
	AST(IU/L)	)	19 24	135			219		53	24
	ALT(IU/L)			128	<u> </u>	1	215		56	22
	Concomita	ant drug		zole/trimethopri	prepara m, zolp		ansoprazol rtrate, alp			agnesium oxide, zine hydrochloride,
	Consonina	uru		zole/trimethopri						

# 6 Pembrolizumab (genetical recombination)

Brand name (name of company)	Keytruda Injection 100 mg (MSD K.K.)
Therapeutic category	Other antitumor agent
Indications	Malignant melanoma Unresectable, advanced or recurrent non-small cell lung cancer Pre- and postoperative adjuvant therapy for non-small cell lung cancer Relapsed or refractory classical Hodgkin lymphoma Radically unresectable urothelial carcinoma Advanced or recurrent microsatellite instability-high (MSI-High) solid tumours that have progressed after cancer chemotherapy (limited to patients who are refractory or intolerant to standard treatments) Radically unresectable or metastatic renal cell carcinoma Postoperative adjuvant therapy for renal cell carcinoma Recurrent or metastatic head and neck cancer Radically unresectable advanced or recurrent oesophageal carcinoma Unresectable, advanced or recurrent microsatellite instability-high (MSI-High) colorectal cancer PD-L1-positive, hormone receptor-negative and HER2-negative inoperable or recurrent breast cancer Pre- and postoperative drug therapy for hormone receptor-negative and HER2-negative breast cancer at high risk of recurrence Advanced or recurrent endometrial carcinoma Advanced or recurrent, tumour mutational burden-high (TMB-High) solid tumours that have progressed after cancer chemotherapy (limited to patients who are refractory or intolerant to standard treatments) Advanced or recurrent cervical cancer Locally advanced cervical cancer Recurrent or refractory primary mediastinal large B-cell lymphoma Unresectable, advanced or recurrent malignant pleural mesothelioma

PRECAUTIONS (Revised language is underlined.)

11. ADVERSE
REACTIONS
11.1 Clinically
Significant Adverse
Reactions
(newly added)
Reference information

<u>Vasculitis</u>

<u>Large-vessel vasculitis, medium-vessel vasculitis, or small-vessel vasculitis [including anti-neutrophil cytoplasmic antibody (ANCA)-associated vasculitis and IgA vasculitis] may occur.</u>

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

Cases involving vasculitis 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 61,000 Japanese market launch: February 2017

		Patient Da		Adverse reaction			
No.	Sex/ age	Reason for use (complication)	Administration duration	Clinical course and treatment			
1	Female 70s		200 mg 1 course every	Large vessel vas	culitis		
		(peritoneal dissemination)	3 weeks (8 courses in total)	Approximately 3 years before administration	The patient was diagnosed with corpus uteri carcinoma. Histological type: endometrioid carcinoma (G1). TNM classification: T1aN0M0. Staging: Stage IA. Surgical intervention: Total abdominal hysterectomy, bilateral adnexectomy and partial omentectomy were performed.		
				101 days before administration	Since peritoneal dissemination appeared, TC (paclitaxel + carboplatin) therapy was initiated.		
				56 days before administration	Four courses of TC therapy were completed, but it was discontinued due to progressive disease (PD).		
				Day 1 of administration	A combination therapy of pembrolizumab (genetical recombination) and lenvatinib mesilate was initiated.		
				Day 67 of administration	The fourth course of pembrolizumab (genetical recombination) was administered. A contrast-enhanced CT was performed to assess the therapeutic effect. The peritoneal dissemination had decreased in size, and the patient was determined to have a partial response (PR). There were no other particular findings. Around the same time, malaise, in addition to myalgia of the lower extremities and claudication of the lower extremities possibly caused by vascular stenosis, appeared. A blood test showed a high CRP level of 3.54 mg/dL. Treatment was continued due to PR, but symptoms such as myalgia of the lower the extremities persisted although they differed in severity. Malaise, myalgia of the lower extremities, and claudication of the lower extremities were symptoms suggestive of large vessel vasculitis. However, a contrast-enhanced CT revealed no vascular wall hypertrophy, and it was not clear whether large vessel vasculitis had developed at this point or not.		
				Day 151 of administration: (day of discontinuation)	The eighth course of pembrolizumab (genetical recombination) was administered. Although the symptoms persisted, the clinical course was carefully monitored because CRP did not worsen. CRP was 5.39 mg/dL at the start of the eighth course, showing an increasing tendency of CRP. A contrast-enhanced CT was performed to assess the therapeutic effect. The peritoneal dissemination had disappeared, and no enlarged lymph nodes were observed. Arterial wall thickening from the abdominal aorta to the bilateral		

	Patient	Dai	ly dose/	Adverse reaction		
No.	Sex/ Reason f (complic	for use Admi	inistration uration	Clinical course and treatment		
				40 days after discontinuation  40 days after discontinuation 41 days after discontinuation 42 days after discontinuation	The patient was admitted to the rheumatology department for further examination and treatment. CRP and CA125 were high at 8.41 mg/dL and 71.6 U/mL, respectively. Myalgia was noted, but CK was within the normal range. An immunoserological test was also negative for various items including antinuclear antibody and IgG4. Periarterial dissemination around the artery, IgG4-related periaortic inflammation, and giant cell arteritis were considered as a differential diagnosis that could show aortic wall hypertrophy. No enlarged lymph nodes adjacent to the artery were observed, and there were no findings strongly suggestive of disseminated lesions. There was no increase in IgG or IgG4 levels, and IgG4-related periaortic inflammation was also unlikely. On PET-CT, FDG uptake in the area with arterial wall thickening was also observed, leading to a diagnosis of large vessel vasculitis as an irAE. Pembrolizumab (genetical recombination) was discontinued, and it was switched to monotherapy with lenvatinib mesilate. Since vascular wall thickening was observed in the region extending from the abdominal aorta to the bilateral common iliac arteries, there was a risk of complications such as intestinal ischaemia. Therefore, this was managed according to the management of Grade 4 as a condition requiring emergency treatment.  [Blood test results on admission]  Serum: WBC 6,500/µL.  Biochemistry: CRP 8.41 mg/dL, CK 28 U/L, creatinine 0.67 mg/dL.  Ilmunoserology: Antinuclear antibody 40 folds, MPO-ANCA <1.0, PR3-ANCA <1.0, IgG 1,406 mg/dL, IgG4 76.5 mg/dL, syphilis RPR negative, syphilis TPLA negative, NT-proBNP 174 pg/mL, troponin T 0.0008 ng/dL, CA125 71.6 U/mL.  [PET-CT findings]  A contrast-enhanced CT showed FDG uptake corresponding to the wall thickening of the vessel wall.  [Temporal artery biopsy findings]  There were no pathological findings suggestive of giant cell arteritis.  Administration of prednisolone 50 mg/day was initiated for large vessel vasculitis.  CRP decreased to 5.09 mg/dL on Day 1 after the start of treatme	

	Patient		Daily dose/	Adverse reaction		
No.	Sex/ age	Reason for use (complication)	Administration duration	Clinical course and treatment		
				45 days after discontinuation	CRP was 0.64 mg/dL.	
				47 days after discontinuation	CRP was 0.42 mg/dL.	
				61 days after discontinuation	The dose of prednisolone was reduced to 40 mg/day.	
				71 days after discontinuation  A contrast-enhanced CT performed 2 months later showed improvement of wall thickening of the large vessel.		
				83 days after discontinuation	The dose of prednisolone was reduced to 30 mg/day.	
				104 days after discontinuation	The dose of prednisolone was reduced to 25 mg/day.	
				184 days after discontinuation	The dose of prednisolone was reduced to 10 mg/day.	
				213 days after discontinuation	Peritoneal dissemination relapsed, and administration of lenvatinib mesilate was discontinued due to disease progression.  Treatment was terminated. After that, methotrexate 6 mg/week was concomitantly used, and prednisolone was continued after tapering to 0.2 mg/kg/day.	
				214 days after discontinuation	Large vessel vasculitis was resolving. Large vessel vasculitis subsequently remitted.	
	Concomitant drugs: Lenvatinib mesilate					

L	1	Patient	Daily dose/	Adverse reaction	
No.	Sex/ age	Reason for use (complication)	Administration duration	Clinical course and treatment	
2	Male 70s	Squamous cell carcinoma of lung (hypertension, diabetes mellitus, metastases to left adrenal gland/ischium, obstructive	200 mg 1 course every 3 weeks (3 courses in total)	Immune-related a 44 days before administration	Adverse event (irAE) IgA vasculitis  Prior to the start of chemotherapy, the patient was hospitalized for obstructive pneumonia, and his Eastern Cooperative Oncology Group Performance Status (ECOG-PS) score was 2. Antimicrobial therapy was administered for obstructive pneumonia.
		pneumonia)		30 days before administration	Obstructive pneumonia was resolving.
				29 days before administration	The first course of carboplatin plus paclitaxel (albumin-bound type) was initiated as the first-line therapy for squamous cell carcinoma of the lung (cT4N2M1c stage IVB, PD-L1 expression 10%-24%).
				Day 1 of administration	Since ECOG-PS improved, administration of pembrolizumab (genetical recombination) was also initiated from the second course.
				Day 55 of administration (day of discontinuation)	The fourth course was administered. (Pembrolizumab [genetical recombination] was administered for the third course).
				1 day after discontinuation	CRP was 3.78 mg/dL.
				5 days after discontinuation	Pyrexia persisted, and the patient was admitted to the hospital for further examination. Recurrence of obstructive pneumonia was suspected, and amoxicillin hydrate/clavulanate potassium (AMPC/CVA) was initiated.  [Physical conditions on admission] Consciousness alert, ECOG-PS 1, body temperature 37.7°C, blood pressure 123/75 mmHg, pulse rate 92 beats/min, respiratory rate 16 breaths/min, SpO <sub>2</sub> 97% (room air), no decrease in oxygenation. Chest: Breath sounds decreased over the dorsal aspect of the left lung. A chest CT scan showed no increase in the mass shadow in the left hilar region, but the findings were suggestive of peripheral obstructive pneumonia. CRP was 4.44 mg/dL.
				8 days after discontinuation	CRP was 8.91 mg/dL. Administration of ampicillin sodium/sulbactam sodium (ABPC/SBT) was initiated. [Blood/urine test findings] (Blood counts) WBC: 7,900/µL, Neut: 71.2%, Lym: 15.8%, Eos: 4.3%, Baso: 0.6%, Mono: 8.1%, RBC: 232 X 10,000/µL, Hb: 7.3 g/dL, Plt: 37.9 X 10,000/µL; (Biochemical) ALB: 2.8 g/dL, LDH: 157 U/L, BUN: 19.9 mg/dL, Cre: 1.12 mg/dL, Na: 143 mmol/L, K: 4.8 mmol/L, CRP: 8.91 mg/dL; (coagulation) PT-INR: 1.04, APTT: 38.6 seconds, D-dimer: 2.4 µg/mL; (Urine analysis) opacity: (-), occult blood: (-), protein qualitative: (-), sediment white blood cells: <1 HPF, sediment red blood cells: <1 HPF.

Patient Daily dose/	Adverse reaction	
No. Sex/ Reason for use Administration duration	Clinical course and treatment	
	Approximately 13 days after discontinuation  Multiple purpura on the extremities (Grade 3) and joint swelling of the fingers developed. Purpura was observed not only on the lower extremities but also on the thighs and abdomen. Therefore, an irAE was suspected, and a skin biopsy of the lower extremities was performed. Administration of ceftriaxone sodium hydrate (CTRX) was initiated.	
	14 days after CRP was 8.83 mg/dL. discontinuation	
	17 days after discontinuation Symptoms of diarrhoea and abdominal pain (Grade 3) also developed. CRP was 9.02 mg/dL.	
	Laboratory tests showed increased WBC (11,300/µL), CRP (17.66 mg/dL), BUN (30.3 mg/dL), and Cre (3.35 mg/dL), and proteinuria and haematuria were observed. In addition, serum IgA was elevated (396 mg/dL). A CT scan showed intestinal oedema and ascites.  The skin biopsy specimen showed neutrophil-dominated inflammatory cell infiltration from the small vessel wall to the surrounding tissues, suggesting leukocytoclastic vasculitis. Immunofluorescence staining showed granular IgA and C3 deposition in the vessel wall. Therefore, the patient was diagnosed with irAE IgA vasculitis. The symptoms such as purpura, joint swelling, acute kidney injury, and ascites were considered to be due to irAE IgA vasculitis. Steroid pulse therapy with intravenous methylprednisolone (1,000 mg/day) was initiated.  The symptoms promptly disappeared, and the Cre level improved.  [Blood/urine test findings] (Blood counts) WBC: 11,300/µL, Neut: 74.4%, Lym: 17.6%, Eos: 1.3%, Baso: 0.4%, Mono: 6.3%, RBC: 333 X 10,000/µL, Hb: 9.9 g/dL, Plt: 36.3 X 10,000/µL, (Biochemical) ALB: 1.9 g/dL, BUN: 30.3 mg/dL, Cre: 3.35 mg/dL, eGFR: 15 mL/min/1.73 m², Na: 137 mmol/L, K: 4.3 mmol/L, CRP: 17.66 mg/dL, IL-6: 980 pg/mL, blood sugar: 130 mg/dL; (Autoantibodies) antinuclear antibody: <40 times, PR3-ANCA: Negative, MPO-ANCA: Negative, IgA: 396 mg/dL; (Urinalysis) opacity: (-), occult blood: 3+, protein qualitative: 4+, sediment white blood cell: 10-19 HPF, sediment red blood cell: 50-99 HPF, granular cast: 20-29 WF, urine β2-MG: <25 μg/L.  [Microbiology test findings] (Bacteriological examination) Sputum culture: Negative, urinary Legionella: Negative, parvovirus IgM: Negative, ASO: 45 IU/mL (Virological test) COVID-19 PCR: Negative, DAV antigenemia: Negative, parvovirus IgM: Negative (Fungi-associated) β-D glucan:	
	Negative.  23 days after CRP was 14.4 mg/dL. discontinuation	

	Patient		Daily dose/	Adverse reaction		
No.	Sex/ age	Reason for use (complication)	Administration duration	Clinical course and treatment		
				24 days after discontinuation	The dose of prednisolone was changed to 60 mg/day (1 mg/kg/day).	
				25 days after discontinuation	CRP was 4.83 mg/dL.	
				28 days after discontinuation	CRP was 1.77 mg/dL.	
				30 days after CRP was 1.14 mg/dL.		
				31 days after discontinuation	The dose of prednisolone was reduced to 50 mg/day.	
				32 days after discontinuation	CRP: 0.86 mg/dL.	
				35 days after discontinuation	CRP: 0.54 mg/dL.	
				38 days after discontinuation	The dose of prednisolone was reduced to 40 mg/day.	
				45 days after discontinuation	The dose of prednisolone was reduced to 30 mg/day.	
				52 days after discontinuation	The dose of prednisolone was reduced to 25 mg/day.	
				61 days after discontinuation	The dose of prednisolone was reduced to 20 mg/day.	
				75 days after discontinuation	The dose of prednisolone was reduced to 15 mg/day.	
				89 days after discontinuation	The dose of prednisolone was reduced to 10 mg/day.	
				124 days after discontinuation	The dose of prednisolone was reduced to 7.5 mg/day.	
				145 days after discontinuation	The dose of prednisolone was reduced to 5 mg/day. The dose of prednisolone was maintained at 5 mg/day, and no aggravation of symptoms was observed.	
	Concomitant drugs: Carboplatin, paclitaxel (albumin-bound type), amoxicillin hydrate/potassium clavulanate, ampicillin sodium/sulbactam sodium, febuxostat, candesartan cilexetil, voglibose, mirogabalin besilate, clostridium butyricum preparation, loxoprofen sodium hydrate, esomeprazole magnesium hydrate					

3

# Revisions of PRECAUTIONS (No. 362)

This section presents details of revisions to the PRECAUTIONS and brand names of drugs that have been revised in accordance with the Notification dated July 30, 2025.

1

Other hormone preparations (including antihormone preparations), antidiabetic agents

- [1] Semaglutide (genetical recombination)
- [2] Tirzepatide
- [3] Insulin glargine (genetical recombination)/lixisenatide

**Brand name** 

[1] Wegovy Subcutaneous Injection 0.25 mg SD, 0.5 mg SD, 1.0 mg SD, 1.7 mg SD, 2.4 mg SD, 0.25 mg pen 1.0 MD, 0.5 mg pen 2.0 MD, 1.0 mg pen 4.0 MD, 1.7 mg pen 6.8 MD, 2.4 mg pen 9.6 MD, Ozempic Subcutaneous Injection 2 mg, Rybelsus tablets 3 mg, 7 mg, 14 mg (Novo Nordisk Pharma Ltd.)

[2] Zepbound Subcutaneous Injection 2.5 mg Ateos, 5 mg Ateos, 7.5 mg Ateos, 10 mg Ateos, 12.5 mg Ateos, 15 mg Ateos, Mounjaro Subcutaneous Injection 2.5 mg Ateos, 5 mg Ateos, 7.5 mg Ateos, 10 mg Ateos, 12.5 mg Ateos, 15 mg Ateos (Eli Lilly Japan K.K.)

Patients with a medical history of abdominal surgery or ileus

[3] Soliqua Injection SoloStar (Sanofi K.K.)

lleus, including intestinal obstruction, may occur.

9. PRECAUTIONS CONCERNING

PATIENTS WITH

SPECIFIC BACKGROUNDS

9.1 Patients with

**Complication or History** 

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

REACTIONS
11.1 Clinically

Significant Adverse

Reactions (newly added)

<u>lleus</u>

<u>lleus, including intestinal obstruction, may occur. If any abnormalities such as severe constipation, abdominal distension, persistent abdominal pain, or vomiting are observed, administration of this drug should be discontinued, and appropriate measures should be taken.</u>

2

Other antitumor agents

[1] Afatinib maleate

[2] Fulvestrant

Brand name

[1] Giotrif Tablets 20 mg, 30 mg, 40 mg (Nippon Boehringer Ingelheim

Co ., Ltd.)

[2] Faslodex Intramuscular Injection 250 mg (AstraZeneca K.K.)

11. ADVERSE REACTIONS

Anaphylaxis

11.1 Clinically Significant Adverse Reactions (newly added)

3

Other antitumor agents

#### Avelumab (genetical recombination)

**Brand name**Bavencio intravenous infusion 200 mg (Merck Biopharma Co., Ltd) **8. IMPORTANT**Hepatic failure, hepatic impairment, hepatitis, and sclerosing

PRECAUTIONS cholangitis may occur. Patients should be carefully monitored through

periodic liver function tests.

11. ADVERSE
 REACTIONS
 11.1 Clinically
 Hepatic failure, hepatic impairment, hepatitis, sclerosing cholangitis
 Hepatic failure, hepatic impairment accompanied by increased levels
 of AST, ALT, γ-GTP, bilirubin, etc., hepatitis, and sclerosing cholangitis

Significant Adverse may occur.

Reactions

4

Other antitumor agents

#### Sunitinib malate

**Brand name** Sutent Capsule 12.5 mg (Pfizer Japan Inc.) and the others

11. ADVERSE <u>Hyperammonaemia</u>

REACTIONS
Hyperammonaemia may occur even in the absence of abnormal hepatic function. If disturbed consciousness is observed, measurement of blood

Significant Adverse <u>ammonia levels should be considered.</u>

Reactions (newly added)

5

Other antitumor agents

### Pembrolizumab (genetical recombination)

Brand name Keytruda Injection 100 mg (MSD K.K.)

11. ADVERSE <u>Vasculitis</u>

REACTIONS

Large-vessel vasculitis, medium-vessel vasculitis, or small-vessel

11.1 Clinically

vasculitis [including anti-neutrophil cytoplasmic antibody (ANCA)-

Significant Adverse <u>associated vasculitis and IgA vasculitis may occur.</u>

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 June 30, 2025) ©: Products for which EPPV was initiated after June 1, 2025

	Nonproprietary name		railer Julie 1, 2023	
	Brand name	Name of the MAH	Date of EPPV initiation	
0	Drospirenone <sup>*1</sup> Slinda 28 Tablets	Aska Pharmaceutical Co., Ltd.	June 30, 2025	
0	Purified Vi polysaccharide typhoid vaccine Typhim Vi Syringe for Injection	Sanofi K.K.	June 30, 2025	
<b>©</b>	Guselkumab (genetical recombination)*2 Tremfya Intravenous Infusion 200 mg, Tremfya Subcutaneous Injection Syringe 100 mg, 200 mg, Tremfya Subcutaneous Injection 200 mg Pen	Janssen Pharmaceutical K.K.	June 24, 2025	
<b>©</b>	Vutrisiran sodium <sup>*3</sup> Amvuttra Subcutaneous Injection 25 mg Syringe	Alnylam Japan K.K.	June 24, 2025	
0	pH4-Treated acidic normal human immunoglobulin (subcutaneous injection), vorhyaluronidase alfa (genetical recombination)*4  HyQvia 10% S.C. Injection Set 5 g/50 mL, 10 g/100 mL, 20 g/200 mL	Takeda Pharmaceutical Company Limited	June 24, 2025	
0	IncobotulinumtoxinA Xeomin 50 units, 100 units, 200 units for Intramuscular injection	Teijin Pharma Limited	June 24, 2025	
0	Remimazolam besilate*5 Anerem 50 mg for I.V. Injection	Mundipharma K.K.	June 24, 2025	
0	Maralixibat chloride Livmarli Oral Solution 10 mg/mL	Takeda Pharmaceutical Company Limited	June 12, 2025	
0	pH4-Treated acidic normal human immunoglobulin (subcutaneous injection), vorhyaluronidase alfa (genetical	Takeda Pharmaceutical Company Limited	June 12, 2025	

Nonproprietary name		Name of the MAH	Date of EPPV initiation
	Brand name		
	recombination) HyQvia 10% S.C. Injection Set 5 g/50 mL, 10 g/100 mL, 20 g/200 mL		
0	Ivosidenib Tibsovo Tablets 250 mg	Nihon Servier Co., Ltd.	June 2, 2025
	Amivantamab (genetical recombination)*6 Rybrevant Intravenous Infusion 350 mg	Janssen Pharmaceutical K.K.	May 21, 2025
	Tisotumab vedotin (genetical recombination) Tivdak for Intravenous Infusion 40 mg	Genmab K.K.	May 21, 2025
	Lazertinib mesilate hydrate Lazcluze Tablets 80 mg, 240 mg	Janssen Pharmaceutical K.K.	May 21, 2025
	Guselkumab (genetical recombination)*7 Tremfya Intravenous Infusion 200 mg, Tremfya Subcutaneous Injection 200 mg Syringe, 200 mg Pen, 100 mg Syringe	Janssen Pharmaceutical K.K.	May 21, 2025
	Mavacamten Camzyos capsules 5 mg, 2.5 mg, 1 mg	Bristol-Myers Squibb K.K.	May 21, 2025
	Acoramidis hydrochloride Beyonttra tablets 400 mg	Alexion Pharma Godo Kaisha	May 21, 2025
	Amivantamab (genetical recombination)*8  Rybrevant Intravenous Infusion 350 mg	Janssen Pharmaceutical K.K.	May 19, 2025
	Iptacopan hydrochloride hydrate <sup>∗9</sup> Fabhalta capsules 200 mg	Novartis Pharma K.K.	May 19, 2025
	Atropine sulfate hydrate*10 Ryjusea Mini ophthalmic solution 0.025%	Santen Pharmaceutical Co., Ltd.	April 21, 2025
	Garadacimab (genetical recombination) Andembry S.C. Injection 200 mg Pens	CSL Behring K.K.	April 18, 2025
	Brivaracetam  Briviact for I.V. injection 25 mg	UCB Japan Co. Ltd.	April 17, 2025
	Tarlatamab (genetical recombination) Imdelltra For I.V. Infusion 1 mg, 10 mg	Amgen K.K.	April 16, 2025
	Tirzepatide <sup>*11</sup> Zepbound Subcutaneous Injection Ateos 2.5 mg, 5 mg, 7.5 mg, 10 mg, 12.5 mg, 15 mg	Eli Lilly Japan K.K.	April 11,2025
	Letermovir <sup>*12</sup> Prevymis Tablets 240 mg, Prevymis Intravenous Infusion 240 mg	MSD K.K.	March 27, 2025
	Marstacimab (genetical recombination) Hympavzi S.C. Injection 150 mg Pen	Pfizer Japan Inc.	March 24, 2025
	Teclistamab (genetical recombination) Tecvayli Subcutaneous Injection 153 mg, 30 mg	Janssen Pharmaceutical K.K.	March 19, 2025
	Mosunetuzumab (genetical recombination) Lunsumio for Intravenous Infusion 1 mg, 30 mg	Chugai Pharmaceutical Co., Ltd.	March19, 2025

Nonproprietary name Brand name	Name of the MAH	Date of EPPV initiation
Datopotamab deruxtecan (genetical recombination)  Datroway for Intravenous Drip Infusion 100 mg	Daiichi Sankyo Co., Ltd.	March 19, 2025
Selexipag Uptravi Tablets for Pediatric 0.05 mg	Nippon Shinyaku Co., Ltd.	March 19, 2025
Ozanimod hydrochloride Zeposia capsules 0.92 mg, Zeposia capsules starter pack	Bristol-Myers Squibb K.K.	March 19, 2025
Tofersen  Qalsody Intrathecal injection 100 mg	Biogen Japan Ltd	March 19, 2025
Zanubrutinib Brukinsa capsules 80 mg	BeiGene Japan GK	March 19, 2025
Patiromer sorbitex calcium  Veltassa 8.4 g powder for suspension (single-dose package)	Zeria Pharmaceutical Co., Ltd.	March 17, 2025
Flortaucipir ( <sup>18</sup> F) Tauvid Injection	PDRadiopharma Inc.	March 3, 2025
Insulin Icodec (genetical recombination)  Awiqli injection FlexTouch 300 units, 700 units	Novo Nordisk Pharma Ltd.	January 30, 2025
Articaine hydrochloride/adrenaline bitartrate Septocaine Combination Injection Cartridge	GC SHOWAYAKUHIN CORPORATION	January 21, 2025
Amifampridine phosphate Firdapse Tablets 10 mg	DyDo Pharma, Inc.	January 15, 2025

<sup>\*1</sup> Contraception

- \*2 Treatment of moderate to severe active Crohn's disease (only in patients who have had an inadequate response to conventional treatments)
- \*3 Transthyretin cardiac amyloidosis (wild type and mutant type)
- \*4 Slowing the progression of motor function decline in chronic inflammatory demyelinating polyradiculoneuritis and multifocal motor neuropathy (when improvement in muscle weakness is observed)
- \*5 Sedation during gastrointestinal endoscopy
- \*6 Coadministration with lazertinib mesilate hydrate for unresectable, advanced or recurrent *EGFR* mutation-positive non-small cell lung cancer
- \*7 Maintenance therapy for moderate to severe ulcerative colitis (only in patients who have had an inadequate response to conventional treatments)
- \*8 Coadministration with carboplatin and pemetrexed sodium hydrate for unresectable, advanced or recurrent *EGFR* mutation-positive non-small cell lung cancer
- \*9 C3 nephropathy
- \*10 Slowing the progression of myopia
- \*11 Treatment of obesity

The use is limited to patients with either hypertension, dyslipidaemia, or type 2 diabetes mellitus who have not sufficiently responded to treatment with dietary and exercise therapy and who fall under 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
- \*12 Addition of a pediatric dosage for the indication below:

Prophylaxis of cytomegalovirus disease for the following:

- \* Allogeneic haematopoietic stem cell transplantation
- \* Organ transplantation