Pharmaceuticals and Medical Devices Safety Information

No. 407 February 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/) and on the MHLW website (https://www.mhlw.go.jp/, only available in Japanese language).

Available information is listed here

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

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



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

Pharmaceuticals and Medical Devices Safety Information

No. 407 February 2024

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

[Outline of Information]

No.	Subject	Measures	Outline of Information	Page
1	Suspected Adverse Reactions to Influenza Vaccines in the 2022 Season		This section describes the status of instances of suspected adverse reactions to influenza vaccines reported from October 1, 2022 through March 31, 2023. Medical institutions are required to report to the MHLW when they encounter symptoms from influenza vaccines that they decide meet the Suspected Adverse Reaction Reporting Criteria regardless of causality. Reports by medical institutions, together with those by the marketing authorization holders (MAHs), are compiled and evaluated by the PMDA. For serious cases including patient mortalities, the PMDA performs a causality assessment and/or considers the necessity of safety measures in consultation with experts. Joint meetings of the Side Effect Subcommittee of the Immunization and Vaccine Section Meeting in the Health Science Council and the Subcommittee on Drug Safety of the Committee on Drug Safety in the Pharmaceutical Affairs and Food Sanitation Council (hereinafter referred to as the "Joint Meeting") are convened periodically for the purpose of investigating and reviewing these reports of suspected adverse reactions to influenza vaccines and to discuss the necessity of safety measures.	6
2	The Manuals for Management of Individual Serious Adverse Drug Reactions		The MHLW prepared the Manuals for Management of Individual Serious Adverse Drug Reactions from fiscal year (FY) 2005 to 2010 and started to revise the Manuals in FY 2016 based on the latest knowledge. In this issue, the progress of the revisions of the Manuals, further plans, and measures to increase awareness will be introduced.	11
3	Important Safety Information	P C	 [1] Acetazolamide [2] Acetazolamide sodium (and 4 others): Regarding the revision of the PRECAUTIONS of drugs in accordance with the Notification dated January 10, 2024, this section will present the details of important revisions as well as the case summary serving as the basis for these revisions. 	15
4	Revision of PRECAUTIONS (No. 347)	Р	Sertraline hydrochloride (and 11 others)	39
5	List of Products Subject to Early Post-marketing Phase Vigilance		List of products subject to Early Post- marketing Phase Vigilance as of December 31, 2023	44

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.

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



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

Abbreviations

ADEM	Acute Disseminated Encephalomyelitis
ADR	Adverse Drug Reaction
EPPV	Early Post-marketing Phase Vigilance
FY	Fiscal Year
HSB	Health Service Bureau
IVC	Inferior Vena Cava
MAH	Marketing Authorization Holder
MHLW	Ministry of Health, Labour and Welfare
PMDA	Pharmaceuticals and Medical Devices Agency
PSEHB	Pharmaceutical Safety and Environmental Health Bureau
SOC	System Organ Class

Suspected Adverse Reactions to Influenza Vaccines in the 2022 Season

1. Introduction

This section describes the status of instances of suspected adverse reactions to influenza vaccines reported from October 1, 2022 through March 31, 2023 (hereinafter referred to as the "2022 season").

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

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

2. Reports of suspected adverse reactions to influenza vaccines (2022 season)

(1) Numbers and frequencies of suspected adverse reactions reported

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

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

	Reports	by MAHs	Reports	by medical insti	tutions**
	(serious	reports)*			
Estimated	Number of serious cases			Number of s	erious cases
number of	reported (1	frequency)	Number of	reported (frequency)
vaccinated		Number of			Number of
persons		patient	(frequency)		patient
(number of		mortalities	(irequency)		mortalities
vaccinations)		reported			reported
51 451 020	17	0	71	33	5
(as of March	(0.000033%)	(0%)	(0.00014%)	(0.00006%)	(0.0000097%)
31.2023)	· /	. ,	· /	· ,	

* Reports by the MAHs were on cases determined to be "serious" under Article 68-10, Paragraph 1 of the Act on Securing Quality, Efficacy and Safety of Products Including Pharmaceuticals and Medical Devices (PMD Act). Reports by the MAHs may duplicate some cases reported by medical institutions, and such duplicated cases are included in the number for reports by medical institutions.

** Reports by medical institutions were submitted under Article 12, Paragraph 1 of the Preventive Vaccination Law (PV Law) or Article 68-10, Paragraph 2 of the PMD Act.

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

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

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Table 2 Number of reports by sex

Sex	Number of Reports by MAHs (serious cases)	Number of reports by medical institutions	
Male	9	32	
Female	8	39	
Unknown	0	0	
Total	17	71	

Table 3 Number of reports by age group

	Number of Reports by MAHs		Number of re	eports by medic	al institutions
Age group	Number of serious cases reported Number of patient mortalities reported		Number of reports	Number of s repc	erious cases orted Number of patient mortalities reported
0 - 9	3	0	24	12	0
10 - 19	3	0	7	2	0
20 - 29	2	0	2	2	0
30 - 39	1	0	1	0	0
40 - 49	0	0	4	1	0
50 - 59	0	0	4	1	0
60 - 69	2	0	5	5	0
70 - 79	3	0	14	6	3
80 or older	2	0	10	4	2
Unknown	1	0	0	0	0
Total	17	0	71	33	5

(3) Details of reported symptoms

Suspected adverse reactions to influenza vaccines reported during the 2022 season are outlined by System Organ Class (SOC) in the right-hand side columns of Table 4. There were no increases in the numbers and frequencies of adverse reactions reported compared with the 2021 season (October 1, 2021 to September 30, 2022).

A total of 5 cases of post-vaccination deaths were reported for this season. The assessment by experts determined that the causality between the vaccination and death could not be assessed due to lack of information for these cases.

A total of 6 cases Note 1) of possible Guillain-Barré syndrome or acute disseminated encephalomyelitis (ADEM) were reported for this season. The assessment by experts determined that a causal relationship between the respective diseases and vaccination was reasonably possible for 2 cases.

A total of 8 cases Note 2) were reported as possible anaphylaxis. Experts concluded that none of the cases were assessed as Level 3 or higher anaphylaxis using the Brighton Criteria. Regarding the number of reports from the MAHs by manufacturing lot, no distinct increases in the number of cases reported as possible anaphylaxis were attributed to any of the specific lots.

At the Joint Meeting held in July 2023, it was concluded that there were no new concerns regarding the safety of the vaccines, including other reported symptoms than anaphylaxis, with no safety measures such as revision of package inserts required at present, but reporting of

suspected adverse reactions and their details should be carefully monitored.

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

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

	2021 s	eason†	2022 se	eason ^{††}
SOC of symptom	Reports by MAHs (serious cases)	Reports by medical institutions (serious cases)	Reports by MAHs (serious cases)	Reports by medical institutions (serious cases)
Gastrointestinal disorders	1	7	3	7
General disorders and administration site conditions	8	19	8	11
Infections and infestations	1	7	0	7
Haepatobiliary disorders	5	2	0	1
Eye disorders	1	0	2	0
Musculoskeletal and connective tissue disorders	1	5	1	4
Blood and lymphatic system disorders	1	3	0	4
Vascular disorders	1	1	0	5
Respiratory, thoracic and mediastinal disorders	2	6	1	8
Injury, poisoning and procedural complications	0	0	0	1
Cardiac disorders	2	2	0	2
Nervous system disorder	6	16	5	23
Renal and urinary disorders	8	7	2	1
Mental disorder	0	0	0	1
Metabolic and nutritional disorders	1	0	0	3
Endocrine disorders	0	0	0	1
Skin and subcutaneous tissue disorders	5	3	2	3
Immune system disorders	2	8	4	5
Neoplasms benign, malignant and unspecified (incl cysts and polyps)	0	0	0	1
Investigations	5	2	0	3
Total	50	88	28	91

Table 4	Comparison of the number of suspected adverse reaction reports between the 2021 and	d
	2022 seasons (by SOC)	

[†] Reported from October 1, 2021 to September 30, 2022

^{††} Reported from October 1, 2022 to March 31, 2023

3. Future safety measures

As detailed in the "Reporting Suspected Adverse Reactions for Routine Vaccination, etc." notification²⁾, medical institutions are urged to promptly report when they encounter symptoms that they believe meet the Suspected Adverse Reaction Reporting Criteria even if the causality is

unclear.

In addition to the conventional reporting by fax, electronic reporting is available through the website since April 1, 2021.

[Report Reception Site (electronic report system)]

https://www.pmda.go.jp/safety/reports/hcp/0002.html (only in Japanese)

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

[References]

 MHLW: The Side Effect Subcommittee of the Immunization and Vaccine Section Meeting in the Health Science Council (the 94th meeting) and the 2023 Subcommittee on Drug Safety of the Committee on Drug Safety in the Pharmaceutical Affairs and Food Sanitation Council (the 5th meeting) (Joint Meeting)

 Material 2-26 Reports of Suspected Adverse Reactions to Influenza Vaccines <u>https://www.mhlw.go.jp/content/10601000/001126218.pdf</u> (only in Japanese)
 Material 2-31 List of reports of fatal cases after vaccination https://www.mhlw.go.jp/content/10601000/001126224.pdf (only in Japanese)

2) "Partial Amendment of Reporting Suspected Adverse Reactions for Routine Vaccinations, etc." dated March 31, 2023, Joint HSB Notification No. 0331-16 and PSEHB Notification No.0331-5, by the Director-General of Health Service Bureau and by the Director-General of Pharmaceutical Safety and Environmental Health Bureau, Ministry of Health, Labor and Welfare <u>https://www.mhlw.go.jp/bunya/kenkou/kekkaku-</u>

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

Report form <u>https://www.mhlw.go.jp/bunya/kenkou/kekkaku-</u> <u>kansenshou20/hukuhannou houkoku/dl/r04youshiki 02.pdf</u> (only in Japanese)

Entry instructions

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

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

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

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

<Voluntary vaccination>

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

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

The Manuals for Management of Individual Serious Adverse Drug Reactions

1. Introduction

Conventional safety measures implemented in Japan had been drug-oriented and mainly "alert-issue" and "post-event response" types, i.e., information of adverse drug reactions (ADRs) was collected and evaluated for each drug and notified to the clinical settings. However, these types of measures may not be, occasionally, effective enough for early detection of ADRs, leading to serious conditions, for example, for the following reasons:

(1) ADRs may occur in the organs in which clinicians are not specialized.

(2) The incidence of serious ADRs is generally low, and some clinicians may have little experience with such events.

Therefore, the MHLW has implemented the "Project of Comprehensive Measures for Serious ADRs" (hereinafter referred to as the "Project," the Project has been ongoing as the "Development Project of the Manuals for Management of Individual Serious ADRs" since FY 2021.) since 2005 in order to develop safety measures that "predict" and "prevent" ADRs, focusing on diseases caused by the use of drugs, in addition to conventional drug-oriented ADR safety measures, and to promote research to elucidate the mechanism of ADRs, etc.

In this project, "The Manuals for Management of Individual Serious ADRs" (hereinafter referred to as the "Manuals") were compiled from FY 2005 to FY 2010 by the Committee on the Comprehensive Actions for Serious ADRs who reviewed and compiled the drafts prepared by the Manual preparation committees organized in related academic societies through discussion with the Japanese Society of Hospital Pharmacists (JSHP) as entrusted by the MHLW in this project. The drafts were prepared with reference to academic papers, various guidelines, health and labour science research project reports, PMDA health and welfare service reports, etc.

In order to promote further utilization of the Manuals after a certain period of time has elapsed since its compilation, revisions based on the latest knowledge have been made over the five years since FY 2016, with the cooperation of related academic societies and others. In addition, we continue to revise the Manuals and prepare new ones as necessary, and promote them to the general public.

2. Progress of revisions, etc.

In FY 2022, we revised or newly drafted the following Manuals. The revisions were reported and discussed at the meeting of the Committee on the Comprehensive Actions for Serious ADRs held on September 20, 2023 and were published in December 2023.

Author	Manual title	Category: New (newly prepared) or Revision
The Japanese Circulation Society	Severe hypertension	New
The Jonan Dishatas Society	Hyperglycemia	Revision
The Japan Diabeles Society	Hypoglycemia	Revision

The Manuals published this time, following the Manuals published last year, include explanations about relief for sufferers of ADRs at the end of the section "About this Manual" in the beginning of each Manual. The Manuals also provide the number of payments for relief benefits in the past 5 years under the Relief System for ADRs and information concerning the Relief System for ADRs at the end of each Manual.

3. Plans for further revisions, etc.

In FY 2023, draft revisions of the following Manuals are being prepared based on the opinions of the Committee and the academic societies. The Manuals are scheduled to be published after being reported and discussed at the Committee on the Comprehensive Actions for Serious ADRs.

Author	Manual title	Category: New (newly prepared) or Revision
Japanese Society of Oral and Maxillofacial Surgeons	Antiresorptive agents-related osteonecrosis/osteomyelitis of the jaws (ARONJ)	Revision
	Nephrotic syndrome	Revision
Japanese Society of Nephrology	Vasculitis (antineutrophil cytoplasmic antibody associated angiitis)	Revision

4. Increasing awareness of the Manuals

In order to further disseminate the Manuals and to promote early detection and treatment of serious ADRs, we have been working on awareness-raising initiatives of the Manuals since FY 2021.

In December 2023, we prepared a poster introducing the Manual of "severe hypertension" which was newly compiled. The electronic version of the poster can be found on the MHLW and PMDA website.

(<u>https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou_iryou/iyakuhin/topics/tp061122-1.html,</u> <u>https://www.pmda.go.jp/safety/info-services/drugs/adr-info/manuals-for-hc-pro/0001.html</u>) (only in Japanese).

An educational video, etc. for patients and their families about the Manuals prepared and published by FY 2022 is also available via the link above. You are encouraged to watch the video.





重篤副作用疾患別対応マニュアルには、自覚症状な どから重大な副作用を早期に発見できるような患者 及び家族の方向けの情報や、医療関係者向けの診断 方法及び対処方法などが記載されています。





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5. Closing remark

Healthcare professionals are requested to continue to cooperate in the proper use of drugs by utilizing the Manuals and informing patients of them as necessary. The Manuals are available on the MHLW and PMDA websites.

[References]

MHLW website "Manuals for Management of Individual Serious ADRs"

(https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou_iryou/iyakuhin/topics/tp061122-

<u>1.html</u>) (only in Japanese)

PMDA website "Manuals for Management of Individual Serious ADRs" (intended for healthcare professionals)

(<u>https://www.pmda.go.jp/safety/info-services/drugs/adr-info/manuals-for-hc-pro/0001.html</u>) (only in Japanese)

Previous articles introducing the Initiative of Revision of the Manuals for Management of Individual Serious ADRs

- 1. Pharmaceuticals and Medical Devices Safety Information No.348 (<u>https://www.pmda.go.jp/files/000221054.pdf</u>)
- 2. Pharmaceuticals and Medical Devices Safety Information No.357 (https://www.pmda.go.jp/files/000226311.pdf)
- 3. Pharmaceuticals and Medical Devices Safety Information No.368 (https://www.pmda.go.jp/files/000232763.pdf)

The Manuals for Management of Individual Serious ADRs: Pharmaceuticals and Medical Devices Safety Information No.393

(https://www.pmda.go.jp/files/000247416.pdf)

The Manuals for Management of Individual Serious ADRs: Pharmaceuticals and Medical Devices Safety Information No.402

(https://www.pmda.go.jp/files/000263297.pdf)

Important Safety Information

Regarding the revision of the PRECAUTIONS of package inserts of drugs in accordance with the Notification dated January 10, 2024, this section will present the details of important revisions as well as the case summary serving as the basis for these revisions.

[1] Acetazolamide [2] Acetazolamide sodium

1

Brand name (name of company)	 [1] Diamox Powder, Diamox Tablets 250 mg (Sanwa Kagaku Kenkyusho Co., Ltd.) [2] Diamox for Injection 500 mg (Sanwa Kagaku Kenkyusho Co., Ltd.)
Therapeutic category	Diuretics
Indications	 [1] (Powder) Glaucoma, epilepsy (to be added when other antiepileptics are not sufficiently effective), improvement of respiratory acidosis in emphysema, cardiac induced oedema, hepatic induced oedema, premenstrual tension, Meniere's disease and syndrome (Tablets) Glaucoma, epilepsy (to be added when other antiepileptics are not sufficiently effective), improvement of respiratory acidosis in emphysema, cardiac induced oedema, hepatic induced oedema, premenstrual tension, Meniere's disease and syndrome, sleep apnoea syndrome [2] Glaucoma, epilepsy (to be added when other antiepileptics are not sufficiently effective), improvement of respiratory acidosis in emphysema, Meniere's disease and syndrome

PRECAUTIONS (Revised language is underlined.)

[Under new instructions]	
11. ADVERSE	Acute respiratory distress syndrome, pulmonary oedema
REACTIONS	If rapidly progressive dyspnoea, hypoxaemia, or chest X-ray
11.1 Clinically	abnormalities such as diffuse infiltrative shadow in both lungs are
Significant Adverse	observed, administration of this drug should be discontinued, and
Reactions	appropriate measures should be taken.
(newly added)	
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 and retrieved for adverse reactions name (PT) "acute respiratory distress syndrome," "acute pulmonary oedema," "pulmonary oedema," and "non-cardiogenic pulmonary oedema"
	Considering possibilities such as assessment of acute respiratory distress syndrome being difficult due to lack of diagnostic information but assessment of pulmonary oedema being possible in some of the cases, a causality assessment of the retrieved cases was conducted as "acute respiratory distress syndrome" and "pulmonary oedema," respectively.

Cases involving acute respiratory distress syndrome reported in Japan:

[1] 2 (No patient mortalities)

[2] 7 cases, including 6 cases in which the drug was administered outside the approved indications (No patient mortalities) Cases involving acute respiratory distress syndrome reported overseas:

[1] 4 cases, including 1 case which fell under the contraindications (No patient mortalities)

[2] 0

Cases involving pulmonary oedema reported in Japan:

[1] 2 (No patient mortalities)

[2] 7 cases, including 6 cases in which the drug was administered outside the approved indications (No patient mortalities)

Cases involving pulmonary oedema reported overseas:

[1] 4 cases, including 1 case which fell under the contraindications (No patient mortalities)

[2] 0

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

[1] Diamox Powder: Approximately 1 279, Diamox Tablets:

approximately 186 440

[2] Diamox for Injection: approximately 18 724

Japanese market launch:

[1] Diamox Powder: August 1958, Diamox Tablets: March 1955

[2] Diamox for Injection: December 1963

		Patient	Daily dose/	Adverse reaction			
No.	Sex/ age	Reason for use (complication)	Administration duration	Clinical course and treatment			
No.	Sex/ age Male 80s	Patient Reason for use (complication) Normal tension glaucoma (hyperkalaemia)	Daily dose/ Administration duration 250 mg for 1 day	Pulmonary oede 1 day before administration Day 1 of administration (day of discontinuation) 1 day after discontinuation	Adverse reaction Clinical course and treatment Clinical tension glaucoma. After 1 hour, symptoms of pulmonary Coedema (dyspnoea) developed. The patient was transported by ambulance due to respiratory failure. A culture test detected only highly susceptible Staphylococcus aureus from the sputum, and others were negative. In addition, the result of an antigen test of Streptococcus pneumoniae and Legionella, various fungal tests, and auto- antibody tests were negative. At the ICU, the patient underwent tracheal intubation and was kept under artificial respiratory management. ECG (before 2 o'clock): Heart rate 132 bpm, PR interval 178 ms, QRS width 94 ms, QT/QTc (E) interval 326/404 ms, P/QRS/T axis 270/92/64, RV5/SV1 value 0.63/0.69mV, RV5+SV1 value 0.63/0.69mV, RV5+		
				2 days after discontinuation	performed again: Left ventricular hypokinesis was noted; respiratory variation was 80% or more in IVC. Chest X-ray findings: Right-side dominant bilateral infiltrative shadow was noted. Permeability improved compared to the previous day. Chest X-ray findings: Permeability slightly improved. Bilateral pleural effusions were		

					3 days afte discontinua 4 days afte	r Ition r	Che the r Che bilat	st X-ray findin ight lower lun st X-ray findin eral lungs imp	gs: Infiltrative g field remair gs: Infiltrative rroved	shadow of led. shadow in
					5 days afte discontinua	r ntion	Che	st X-ray findin	gs: Bilateral p d, and perme	oleural eability
					6 days afte discontinua	r Ition	decr Res Deca Adm com	eased. biratory condit annulation wa inistration of r pleted. st X-ray findin	tions tended t s considered meropenem h gs: No chang	o improve. Nydrate was
					7 days afte discontinua	r Ition	com Extu Che sligh impr	pared to the p bation was pe st X-ray findin tly improved. oved.	previous day. erformed. gs: Bilateral p Infiltrative sha	permeability adow further
					8 days afte discontinua 9 days afte discontinua	r Ition r Ition	Che lung The mea Che	st X-ray findin s improved. patient left the ls. st X-ray findin	gs: Permeab e ICU and be gs: No chang	ility in bilateral gan to eat le was noted
					12 days aft discontinua 15 days aft	er Ition er	com Che lung The	pared to the p st X-ray findin s improved. patient's resp	previous time. gs: Permeabi iratory condit	ility in bilateral ion stabilized.
					discontinua 17 days aft discontinua	ition er ition	Che lung incre	st X-ray findin s further impre eased.	gs: Permeab oved, and pne	ility in bilateral eumatization
					19 days aft discontinua 20 days aft discontinua	er Ition er Ition	Che com Puln patie	st X-ray findin pared to the p nonary oedem ent was discha	gs: No chang previous time. na was resolv arged from the	e was noted ing. The e hospital.
Laborato	ry test value									
	Day 1 of administration (day of discontinua- tion)	1 day afte discontinu ation	er 2 days a u- discontir tion	after nua-	3 days after discontinua- tion	4 days discont tio	after tinua- n	5 days after discontinua- tion	6 days after discontinua- tion	19 days after discontinua- tion
WBC (cells/µL)	3 160	16 640	10 620)	4 440	6 43	0	4 580	6 150	4 510
CRP (mg/dL)	0.51	18.59	12.17		5.24	1.8	3	0.76	0.46	1.39
Cre (mg/dL)	1.24	2.08	1.72		1.17	_		-	0.65	0.71
NT- proBNP (pg/mL)	189	1 830			393	_		_	_	
Concomitar furosemide hydrochlori	nt drugs: Esom , ethyl icosape de/latanoprost	neprazole r ntate, toco , brimonidi	nagnesium pherol nicol ne tartrate/b	hydr tinato orinz	ate, rebamipio e, cilostazol, k olamide, keto	de, lima ceishika profen	prost ryuko	alfadex, benz tsuboreito, ca	bromarone, a rteolol	allopurinol,

2	•Dexamethasone preparations [1] Dexamethasone (oral dosage form), [2] Dexamethasone palmitate, [3] Dexamethasone sodium phosphate (injections), •Prednisolone preparations
	[1] Prednisolone (oral dosage form), [2] Prednisolone sodium succinate. [3] Prednisolone sodium phosphate
	•Methylprednisolone preparations
	[1] Methylprednisolone, [2] Methylprednisolone sodium
	succinate, [3] Methylprednisolone acetate
	 Cortisone/hydrocortisone preparations
	[1] Cortisone acetate, [2] Hydrocortisone, [3] Hydrocortisone
	sodium succinate (preparations indicated for lymphoid
	tumours), [4] Hydrocortisone sodium succinate (preparations
	not indicated for lymphoid tumours), [5] Hydrocortisone
	sodium phosphate

	Dexamethasone preparations
	[1] Decadron Tablets 0.5 mg. 4 mg (Nichi-Iko Pharmaceutical Co.
	[1] Decadron Elivir 0.01% (Nichi-Iko Pharmaceutical Co., Ltd.), and
	the others
	[1] Long Dov Tablete 2 mg. 4 mg. (Printel Myore Squibb K.K.)
	[1] LenaDex Tablets 2 mg, 4 mg (Distoi-wyers Squibb K.K.)
	[2] Limethason intravenous injection 2.5 mg (Mitsubishi Tanabe
	Pharma Corporation)
	[3] Orgadrone Injection 1.9 mg, 3.8 mg, 19 mg (Sandoz Pharma
	K.K.)
	[3] Decadron Phosphate Injection 1.65 mg, 3.3 mg, and 6.6 mg
	(Sandoz Pharma K.K.), and the others
	Prednisolone preparations
	[1] Predonine Tablets 5 mg (Shionogi Pharma Co. 1 td.) and the
	others
Brand name	[2] Predonine for Injection 10 mg, 20 mg, 50 mg (Shionogi Pharma
(name of company)	
(name of company)	[2] Dredeneme Eneme 20 mg (Kverin Dhermeseuties) Co. 1 td)
	[5] Predonema Enema 20 mg (Kyonin Pharmaceulical Co., Lid.)
	•Methylprednisolone preparations
	[1] Medrol Tablets 2 mg, 4 mg (Pfizer Japan Inc.)
	[2] Solu-Medrol for Intravenous Use 40 mg, 125 mg, 500 mg, 1000
	mg (Pfizer Japan Inc.)
	[3] Depo-Medrol Sterile Aqueous Suspension 20 mg, 40 mg (Pfizer
	Japan Inc.)
	 Cortisone/hydrocortisone preparations
	[1] Cortone Tablets 25 mg (Nichi-Iko Pharmaceutical Co., Ltd.)
	[2] Cortril Tablets 10 mg (Pfizer Japan Inc.)
	[3] Solu-Cortef Injection 100 mg (Pfizer Japan Inc.), and the Others
	[4] Solu-Cortef for Intravenous Use 250 mg, 500 mg, 1000 mg
	(Pfizer Japan Inc.) and the others
	[5] Hydrocortone Injection 100 mg, 500 mg (Nichi-Iko
	Pharmacoutical Co. 1 td.) and the others
	$ $ Γ narmateulitar CO., LIU.), and the others

Therapeutic category	Adrenal hormone preparations
Indications	Descriptions are omitted because there are many relevant drug products.

PRECAUTIONS (Revised language is underlined.)

 Dexamethasone (oral dosage form) (preparations indicated for multiple myeloma) 						
[Under new instructions]						
8. IMPORTANT						
PRECAUTIONS	Tumour lysis syndrome may occur. Patients should be carefully					
(newly added)	monitored by checking serum electrolyte levels, renal function, etc.					
11. ADVERSE	Tumour lysis syndrome					
REACTIONS	If any abnormalities are observed, appropriate measures (e.g.,					
11.1 Clinically	administration of physiological saline solution and/or					
Significant Adverse	hyperuricaemia therapeutic agents, and dialysis) should be taken,					
Reactions	and patients should be carefully monitored until recovery from such					
(newly added)	symptoms.					
 Dexamethasone palmitate 	9					
[Under new instructions]						
8. IMPORTANT	It has been reported that tumour lysis syndrome occurred when					
PRECAUTIONS	dexamethasone preparations (oral dosage form and injections)					
(newly added)	were administered to patients with lymphoid tumours. If rapid					
, <u>,</u>	electrolyte abnormalities, acute kidney injury, etc. are observed					
	after administration of this drug, appropriate measures should be					
	taken with consideration given to the possibility of tumour lysis					
	syndrome.					
•Dexamethasone (oral dos	age form) (preparations indicated for lymphoid tumours (excluding					
preparations indicated only	(for multiple myeloma))					
•Dexamethasone sodium	bhosphate (injections)					
•Prednisolone (oral dosage	e form)					
•Prednisolone sodium suc	cinate					
•Methylprednisolone						
•Methylprednisolone sodiu	m succinate					
•Methylprednisolone aceta	te					
•Hydrocortisone						
•Hydrocortisone sodium si	ccinate (preparations indicated for lymphoid tumours)					
[Under old instructions]						
Important Precautions	Tumour lysis syndrome may occur when this drug is administered					
(newly added)	to patients with lymphoid tumours. Patients should be carefully					
(newly added)	monitored by checking serum electrolyte levels, renal function, etc.					
Advorse Peactions	Tumour lysis syndrome:					
Clinically Significant	Tumour lysis syndrome may occur when this drug is administered to					
Adverse Resetions	national void syndrome may occur when the drug is duministered to					
	appropriate measures (e.g., administration of physiological saline					
(newly added)	solution and/or hyperuricaemia therapeutic agents, and dialysis)					
	should be taken, and natients should be carefully monitored until					
	should be taken, and patients should be carefully monitored until					
[Inder new instructions]						
	<common all="" indications="" to=""></common>					
	Tumpur lugic aundroma may accur when this drug is administered					
r neuau IIUN3	to patients with lymphoid tymours. Datients should be corefully					
(newly added)	to patients with tymphold tumours. Patients should be carefully					
	monitored by checking serum electrolyte levels, renal lunction, etc.					
	Tumour lysis syndrome					

11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added) •Prednisolone sodium pho [Under new instructions]	Tumour lysis syndrome may occur when this drug is administered to patients with lymphoid tumours. If any abnormalities are observed, appropriate measures (e.g., administration of physiological saline solution and/or hyperuricaemia therapeutic agents, and dialysis) should be taken, and patients should be carefully monitored until recovery from such symptoms. sphate
PRECAUTIONS (newly added)	administered to patients with lymphoid tumours. If rapid electrolyte
	abnormalities, acute kidney injury, etc. are observed after administration of this drug, appropriate measures should be taken with consideration given to the possibility of tumour lysis syndrome.
•Cortisone acetate	
[Under new instructions]	
	It has been reported that tumour lysis syndrome occurred when
(newly added)	with lymphoid tumours. Patients should be carefully monitored by
(nonly deded)	checking serum electrolyte levels, renal function, etc.
11. ADVERSE	Tumour lysis syndrome Tumour lysis syndrome may occur when this
REACTIONS	drug is administered to patients with lymphoid tumours. If any
11.1 Clinically	abnormalities are observed, appropriate measures (e.g.,
Significant Adverse	administration of physiological saline solution and/or hyperuricaemia
Reactions	Inerapeutic agents, and dialysis) should be taken, and patients should be carefully monitored until recovery from such symptoms.
(newly added)	be called in the net indicated for tympicity in the symptoms.
•Hydrocortisone sodium pl	nosnhate
[Under old instructions]	lospilate
Important Precautions	It has been reported that tumour lysis syndrome occurred when
(newly added)	hydrocortisone preparations (injections) were administered to patients
	with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney
	injury, etc. are observed after administration of this drug, appropriate
	measures should be taken with consideration given to the possibility
[Under new instructions]	or tamoar lysis synarome.
8. IMPORTANT	It has been reported that tumour lysis syndrome occurred when
PRECAUTIONS	hydrocortisone preparations (injections) were administered to patients
(newly added)	with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney
	injury, etc. are observed after administration of this drug, appropriate
Defense a sinfermation	measures should be taken with consideration.
Reference information	number of cases (for which a causal relationship between the drug
	lysis syndrome" in which no antineoplastics were concomitantly used
	for the treatment of lymphoid tumours among cases collected in the
	PMDA's database for adverse drug reactions, etc. reports
	Cases involving tumour lysis syndrome reported in Japan: Dexamethasone preparations: 1 (No patient mortalities)
	Prednisolone preparations: 3 (No patient mortalities)
	ivietnyiprednisolone preparations: 2 (No patient mortalities)
	Cases involving tumour lysis syndrome reported overseas:

Dexamethasone preparations: 9 (2 patient mortalities) Prednisolone preparations: 3 (No patient mortalities) Methylprednisolone preparations: 7 (No patient mortalities) Cortisone/hydrocortisone preparations: 3 (No patient mortalities)

Number of patients using the drug as estimated by the MAH during the previous 1-year period: Descriptions are omitted because there are many relevant drug products.

Japanese market launch: Descriptions are omitted because there are many relevant drug products.

Ĩ	Patient Daily			Daily dose/		Advers	Adverse reaction		
	Sex/ Reason for use Adr			Administration					
	age (complicat		lication)	duration		Clinical cours	e and treatmen	t	
	Male Under 10 years old	acute	4 mg for 1 day ↓ 42 mg Unknown	Tumour lysis syndrome 4 hours before administration A blood test revealed a white blood cell count of 80×10 ⁴ /µL, and the patient was transported by ambulance with suspecte acute leukemia. By the presence of large thymus gland, the patient was provisional diagnosed with T-cell type acute leukaem and the treatment was started. Potassiur and phosphorus levels were within the normal range, and urine output was maintained. However, there was a conce about the occurrence of tumour lysis syndrome indicated by the severe hyperuricaemia (16.8mg/dL) and abnormally high WBC levels. Therefore,					
					At the start of initial administration	recombina The blood administra recombina uric acid w Therefore,	tion) was admir test after 4 hou tion of rasburica tion) revealed a vith a value of 3. chemotherapy	nistered. rs of ase (genetical in improvement in 5 mg/dL. was slowly	
					5 hours after initial administration (the time of onset) At the start of re administration 24 hours after	initiated w Suddenly, (with confi cardio-res epinephrin favorable. change re (11.7mg/d (10.5mg/d (7.6mEq/L creatinine output wer purification after resus administra was initiat the WBC of the norma	ith 4 mg of pred ventricular tach rmed hyperkala piratory arrest. T e and cardiac n The blood test avealed hyperunic L) and hyperpho L) in addition to). Also, elevatio (1.14mg/dL) an e noted. Theref n therapy was p scitation. At the scitation. At the ed. tt day of initiatin count was 5 700 level.	nisolone. ycardia occurred emia), resulting in The response to nassage was at the sudden caemia psphataemia hyperkalaemia n in serum d decreased urine ore, acute blood erformed soon same time, prednisolone ng chemotherapy, //µL, returning to y test values and	
					readministration 48 hours after r administration Approximately : weeks after re- administration	 urine outp Withdrawin Although \ tumour lys patient wa intracrania was confir 	ut were observe ng from dialysis VBC count and is syndrome im s judged as bra I haemorrhage, med.	d. became possible the condition of proved, the in-dead due to and his death	
	Laborator	y test valu	9						
			4 hours befo administratic	re Initial on administration	5 hours after initial administration (at the time of onset)	12 hours after initial administration	1 day after re- administration	2 days after re- administration	
	Uric acid (mg/dL) 16.8		16.8	3.5	11.7	6.6	1.6	0.2	
	Potassiu	m (mEq/L)	3.7	4.2	7.6	5.1	3.3	3.5	
	Posphori (ma/dl)	c acid	5.1	—	10.5	—	—	—	
	Calcium	(mg/dL)	9.2			_	l _	_	
	Serum creatinine								

Case	summa	ry					
	Patient		Daily dose/	Adverse reaction			
No.	Sex/ age	Reason for use (complication)	Administration duration	Clinical course and treatment			
2	Male Under	Burkitt's lymphoma	10 mg Unknown	Tumour lysis sy	ndrome		
	Under 10 years old	(none)	Unknown	Approximately 6 months before administration 5 days before administration 1 day before administration Day 1 of administration 1 day after administration (date of onset): 2 days after administration 3 days after administration	Abdominal tumour was pointed out. The patient was admitted to this department. At the time of admission, tumour with a size of 5×8×8cm by a CT and echo was confirmed. A bone marrow test at the time of admission showed 4% blasts. Blasts increased to 90%. The patient was diagnosed with Burkitt's lymphoma stage IV by the cell surface marker test of blasts. Transfusion (3 000 mL/m²/day) was given, and diuretics and allopurinol were administered. 10 mg/day of prednisolone was intravenously administered. Serum phosphorus markedly increased to 13.3 mg/dL. Renal function decreased. Renal failure (BUN 50 mg/dL, creatinine clearance 3 mL/minute) was considered, and peritoneal dialysis was initiated. Serum phosphorus decreased. Chemotherapy was initiated. No abnormalities were noted in serum phosphorus and calcium, and chemotherapy could be performed as previously planned.		
	Laborato	Uric acid (mg/dL)		administration			
				of onset)			
	Uric acid			-			
	Potassium (mEq/L) Serum phosphorus (mg/dL)			-			
			13	3.3			
	Calcium (mg/dL)			-			
	BUN (mg	g/dL)	5	0			
	Suspected	ie ciearance (mL/minute) I concomitant drugs: Non	e	5			
	Concomita	ant drugs: Allopurinol, diu	retics				

3 Atezolizumab (genetical recombination)

Brand name	Tecentriq for Intravenous Infusion 840 mg, 1200 mg (Chugai
(name of company)	Pharmaceutical Co., Ltd.)
Therapeutic category	Other antitumor agents
	<tecentriq 1200="" for="" infusion="" intravenous="" mg=""></tecentriq>
	 Unresectable, advanced or recurrent non-small cell lung cancer
	 Postoperative adjuvant treatment for PD-L1-positive non-small cell
	lung cancer
Indications	 Extensive-stage small cell lung cancer
	 Unresectable hepatocellular carcinoma
	<tecentriq 840="" for="" infusion="" intravenous="" mg=""></tecentriq>
	 PD-L1-positive, hormone receptor-negative and HER2-negative
	inoperable or recurrent breast cancer

PRECAUTIONS (Revised language is underlined.)

[Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions	Encephalitis, meningitis <u>, myelitis</u>
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 myelitis reported in Japan: 2 (No patient mortalities) Cases involving myelitis reported overseas: 3 (No patient mortalities) Number of patients using the drug as estimated by the MAH during the previous 1-year period: Approximately 15 343 Japanese market launch: Tecentriq for Intravenous Infusion 840 mg: November 2019 Tecentriq for Intravenous Infusion 1200 mg: April 2018

Case	summa	ry			
		Patient	Daily dose/		Adverse reaction
No.	Sex/ age	Reason for use (complication)	administration duration	(Clinical course and treatment
No. 1	Sex/ age Male 70s	Reason for use (complication) Hepatocellular carcinoma (hypertension, hepatic cirrhosis)	administration duration 1 200 mg/dose every 3 weeks (2 courses)	Encephalomyeliti [PS at initiation of [Metastases] Lymp [Previous treatment [History of surgery [Other treatment h (TAE), endoscopic Day 1 of administration 1 day after administration 16 days after administration 26 days after administration 26 days after administration (day of completion of administration) 1 day after completion - 37 days after completion 41 days after completion	Clinical course and treatment is administration of atezolizumab] 1 oh nodes: Site (around the abdominal aorta) ht drug] lenvatinib mesilate] partial hepatectomy of S6 listory] Transcatheter arterial embolization o injection sclerotherapy (EIS) Administration of atezolizumab + bevacizumab was initiated. Oedema occurred. Diarrhoea (grade 3 at worst), pyrexia (grade 3 at worst), depressed level of consciousness (grade 3 at worst), and impaired appetite occurred. Therapeutic measures included <i>Clostridium</i> butyricum combination drug and loperamide hydrochloride. The patient experienced disturbed consciousness and pyrexia. Head MRI and cerebrospinal fluid test showed no abnormal findings. The patient was admitted to the hospital (for 8 days). Ceftriaxone sodium hydrate and vitamins were administered for increased CRP, and the pyrexia subsided. The patient received the second dose of atezolizumab + bevacizumab. Diarrhoea, impaired appetite, and encephalomyelitis (grade 3) occurred. The patient received the second dose of atezolizumab + bevacizumab. Diarrhoea, impaired appetite, and encephalomyelitis (grade 3) occurred. The patient was admitted to the hospital. The patient was admitted to the hospital. The revised Hasegawa's Dementia Scale (HDS-R) was 22/30. His understanding decreased, and he repeated the same thing. Muscular weakness of the left lower extremity (level 1 on MMT below the thigh) was noted. Head MRI: Haemorrhagic infarction was positive (+) in the medial left temporal lobe (hippocampus). Small lesions with high FLAIR were scattered in the brain surface. Therapeutic measures included ceftriaxone sodium hydrate (administered for 3 days). There was no improvement in the symptoms. Muscular weakness in the left lower extremity (level 1 on MMT), decrease of temperature and pain sensation below the right chest, and neurogenic bladder were
				43 days after completion	increased (+). A thoracic spinal cord MRI showed a T2- high intensity lesion at Th2-4 mainly on the

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February 2024

l aboratory test value		44 day comple 45 day comple	s after etion s after etion	left sid with n He re- (admi A cere count domir 4 antii negat The p with s A hea shrink R was The p encep from c	de, and the patient hyelitis. ceived steroid puls nistered for 3 days abrospinal fluid tes of 415/3 (mononu- iant), protein of 112 body negative (-) a ive (-). atient's cognitive fut teroid pulse therap d MRI showed a te cage in the hyperin's s 26/30. atient was recover shalomyelitis. He has bedema.	was diagnosed e therapy). t showed a cell clear cell- 2.8, anti-aquapoi nd oligoclonal ba unction normalize y. endency toward tensity area. HDS ing from ad not recovered
Test item (unit)	15 days af administrat	ter ion	41 days administr (day c completio administra	after ation of on of ation)	37 days after completion	43 days after completion
White blood cells (/mm ³)	2 100		2 300		3 900	4 000
Lymphocytes (/mm ³)	390		610		410	580
Neutrophils (/mm ³)	1 510		1 380 160		3 300 0	3 010 220
Eosinophils (/mm ³)	10					
Basophils (/mm ³)	30		20		10	10
Anti-neutrophil myeloperoxidase antibody (MPO-ANCA)	_		-		-	Less than 1.0 U/mL
Antinuclear antibody	-		-		-	Less than 40
CRP (mg/dL)	8.4		0.26		2.35	0.12
BUN (mg/dL)	20.6		10.1		22.2	-
Serum creatinine (mg/dL)	1.09		0.75		1.45	-
AST (GOT) (IU)	40		55		30	-
ALT (GPT) (IU)	24		40		15	-
CK (CPK) (IU/L)	35		59		136	-
Na (mEq/L)	135		140		136	-
K (mEq/L)	3.7		3.3		4.4	-
Ca (mg/dL)	8.4		8.8		9.3	-
CI (mEq/L)	102		103		98	-

Case	summa	ry			
		Patient	Daily dose/		Adverse reaction
No.	Sex/ age	Reason for use (complication)	administration duration	C	Clinical course and treatment
2	Female 50s	Lung adenocarcinoma (myelitis)	1 200 mg/dose for 1 day	Aggravation of m [Underlying diseas small cell lung can Adenocarcinoma, [Metastases] meta metastases to bon [ECOG_PS] 2 [History of previou bevacizumab, osir Day 1 of administration (day of completion of	yelitis se] Unresectable, advanced or recurrent non- icer (NSCLC) (histological type: stage at diagnosis: Stage IV) istases to central nervous system, ie, metastases to lung s treatment] erlotinib hydrochloride, mertinib mesilate Atezolizumab + bevacizumab + carboplatin + paclitaxel were administered.
				administration) 7 days after completion 12 days after completion 14 days after completion 15 days after completion 16 days after completion 19 days after completion 21 days after completion 26 days after completion	Decreased neutrophil count (grade 4 at worst) occurred. The patient could not move due to pyrexia of 39.9 °C and general malaise. She was transferred to the hospital by ambulance. As febrile neutropenia was suspected, she was admitted to the hospital for treatment. She had myelitis even before the initiation of administration of atezolizumab, due to which numbness of lower extremities and difficulty in moving them were noted. Aggravation of the symptoms was observed on the admission for febrile neutropenia. Aggravation of myelitis (grade 4 at worst), increased CK (grade 4 at worst), and febrile neutropenia (grade 3 at worst) occurred. Therapeutic measures included methylprednisolone sodium succinate, prednisolone sodium succinate for injection, and cefepime dihydrochloride hydrate (administered for 7 days). Anaemia (grade 2 at worst) occurred. The patient underwent a cervical and thoracic spinal cord MRI, which revealed findings of myelitis at the C4-Th9 level. The MRI showed expanded lesion compared with the previous MRI. Considering the possibility of both aggravation of preexisting myelitis and irAE, administration of methylprednisolone sodium succinate was initiated. The patient recovered from febrile neutropenia. The patient recovered from decreased neutrophil count. The patient had not recovered from aggravation of myelitis with complete paralysis of the lower extremities
				34 days after completion	The patient recovered from increased CK.

	12 days after completion
CK (IU/L)	1 196
Body temperature (°C)	39.9
CRP (mg/dL)	3.14
Neutrophil count (/mm ³)	505
PCT (ng/mL)	5.78

4 [1] Encorafenib [2] Binimetinib

Brand name (name of company)	[1] Braftovi Capsules 50 mg, 75 mg (Ono Pharmaceutical Co., Ltd.) [2] Mektovi Tablets 15 mg (Ono Pharmaceutical Co., Ltd.)
Therapeutic category	Other antitumor agents
Indications	 Unresectable malignant melanoma with BRAF mutation Unresectable, advanced or recurrent colorectal cancer with BRAF mutation that has progressed after cancer chemotherapy

PRECAUTIONS (Revised language is underlined.)

[Under new instructions]	
8. IMPORTANT	Tumour lysis syndrome may occur. Patients should be carefully
PRECAUTIONS	monitored by checking serum electrolyte levels, renal function, etc.
(newly added)	
11. ADVERSE	Tumour lysis syndrome
REACTIONS	If any abnormalities are observed, administration of this drug should
11.1 Clinically	be discontinued, appropriate measures (e.g., administration of
Significant Adverse	physiological saline solution and/or hyperuricaemia therapeutic
Reactions	agents, and dialysis) should be taken, and patients should be carefully
(newly added)	monitored until recovery from such symptoms.
Reference information	 Number of cases (for which a causal relationship between the drugs and event is reasonably possible) collected in the PMDA's database for adverse drug reactions, etc. reports Cases involving tumour lysis syndrome reported in Japan: [1][2] 3 cases, including 1 case in which the drugs were administered outside the approved indications (No patient mortalities) Cases involving tumour lysis syndrome reported in overseas: [1][2] 5 (No patient mortalities) Number of patients using the drugs as estimated by the MAHs during the previous 1-year period: [1] Approximately 420 [2] Approximately 265 Japanese market launch: [1] Braftovi Capsules 50 mg: February 2019
	[2] February 2019

Case	summa	ry								
		Patient		Daily dos	e/			Adver	se reaction	
No.	Sex/ age	Reason for us (complication)	Administrat duration	ion			Clinical course and treatment		
1	Female 50s	Malignant melanc (metastases to pl hepatitis B virus carrier, pleural effusion)	oma eura,	Encorafe (450 mg binimetinik mg) for 2 da ↓ Discontinu ↓ Encorafe (200 mg binimetinik mg) for 14 da ↓ Encorafe (300 mg binimetinik mg) for 8 da	enib g), o (90 ys ation enib g), o (30 ays enib g), o (60 ys	Tumour ly Medical his Day 1 of administrat Day 2 of administrat (day of discontinua 1 day after discontinua 3 days after discontinua 5 days after discontinua 6 days after discontinua 1 day after discontinua 3 days after discontinua 6 days after discontinua 7 days after discontinua 8 days after discontinua 8 days after discontinua 1 day after discontinua	sis syn tory: no ion ion ition) ttion r ttion r ttion r r ttion r ttion r ttion r ttion	drome Administr binimetini unresecta <i>BRAF</i> mu Skin (trun Superficia classifical Bilateral c was obse encorafer discontinu The patie morning, hyperkala renal failu tumour ly Fluid load urine volu Administr diuretics v Marked ir values foi noted. Tumour ly resolved. Administr binimetini The dose was chan No tumou	ation of encorafenib and b was initiated to treat able malignant melanoma with tation (recurrence, primary lesion: k(including buttok)), disease type: al spreading, stage IV, M tion: Skin M1b, V600E mutation). central serous chorioretinopathy rved, and administration of hib and binimetinib was red. In thad a fever and nausea in the and blood tests revealed teemia, hyperuricaemia, and acute re. She was diagnosed with sis syndrome. Ing was performed so that the me per hour exceeded 100 mL. ation of oral febuxostat and was initiated. Inprovement in renal function and ruric acid and potassium was vsis syndrome improved and ation of encorafenib and b was resumed.	
	Laborato	ory test value								
			D adm	ay 1 of ninistration	1 disco	day after	3 da discor	nys after		
	Creatinin	e (mg/dL)		0.55		3.12	1	.04		
	Uric acid	(mg/dL)		4.5		12.4	:	3.9		
	Potassiu	m (mmol/L)		5.0		6.1	;	3.2		
	Calcium	(mg/dL)		8.4		7.8		-		
	Phospho	rus (mg/dL)		4.3		9.8		-		
	Concomita	int drugs: None								

Janna	Patient		Daily dose/		Advers	se reaction
Sex/ age	Reason for (complicat	use ion)	Administration duration	Clinical course and treatment		
Female 40s	Malignant mel (metastases to nodes, to perit to liver, and to	anoma) lymph oneum, bone)	Encorafenib (450 mg), binimetinib (90 mg) for 4 days ↓ Discontinuation ↓ Encorafenib (450 mg), binimetinib (90 mg)	Tumour lysis sym The patient had no smoking. Day 1 of administration (day of discontinuation) 4 days after discontinuation 8 days after discontinuation (day 1 of readministration) Day 7 of readministration	drome medical hi binimetini unresecta <i>BRAF</i> mu melanoma stage clas T4aN3M1 Hyperkala observed, with tumo was initiat and binim Oral admi initiated. Administra binimetini	story, and she had a history of ation of encorafenib and b was initiated to treat ible malignant melanoma with tation (histological type: Malign a, primary lesion: Left third toe, ssification: IV, TMN classificatio). aemia and hyperuricaemia were , and the patient was diagnosed ur lysis syndrome. Fluid loading ted. Administration of encorafer retinib was discontinued. inistration of febuxostat was ation of encorafenib and b was resumed.
Laborato	ory test value			Day 4 of admir	histration	
		1 day b	efore administratio	n (day of discont	inuation)	Day 7 of readministration
Creatinin	e (mg/dL)		0.63	4.2		0.56
Uric acid	(mg/dL)		5.4	14.3		0.5
Potassium (mmol/L)			4.4	5.0		3.9
Calcium	(mg/dL)		9.1	8.1		7.9
Phospho	rus (ma/dL)		_	-		2.6

5 Pembrolizumab (genetical recombination)

Brand name (name of company)	Keytruda Injection 100 mg (MSD K.K.)
Therapeutic category	Other antitumor agents
Indications	 Malignant melanoma Unresectable, advanced or recurrent non-small cell lung cancer Relapsed or refractory classical Hodgkin lymphoma Radically unresectable urothelial carcinoma that has progressed after cancer chemotherapy 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 adjuvant therapy for hormone receptor- negative and HER2- negative breast cancer at high risk of recurrence Unresectable, advanced or recurrent endometrial carcinoma that has progressed after cancer chemotherapy Advanced or recurrent, tumour mutational burden-high (TMB-High) solid tumours that have progressed after cancer chemotherapy (Imited to patients who are refractory or intolerant to standard treatments) Advanced or recurrent cervical cancer Recurrent or refractory primary mediastinal large B-cell lymphoma

PRECAUTIONS (Revised language is underlined.)

[Under new instructions]	
11. ADVERSE REACTIONS	Encephalitis, meningitis <u>, myelitis</u>
11.1 Clinically Significant Adverse	
Reactions	
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 myelitis reported in Japan: 2 (No patient mortalities) Cases involving myelitis reported overseas: 10 (No patient mortalities) Number of patients using the drug as estimated by the MAH during the previous 1-year period: Approximately 48 000 Japanese market launch: February 2017

Case summary

		Patient	Daily dose/		Adverse reaction
No.	Sex/ age	Reason for use (complication)	administration duration	(Clinical course and treatment
1	Female 40s	Lung squamous cell carcinoma stage IV (metastatic brain tumour, multiple metastases, Basedow's disease)	200 mg, 1 course every 3 weeks (3 courses in total) ↓ 200 mg, 1 course every 3 weeks (7 courses in total at approximately 160 days after re- administration, number of doses unknown at 594 days after re- administration)	Myelitis83 days before administration55 days before administration12 days before administrationDay 1 of administration42 days after administration (day of discontinuation) 3 days after discontinuation (day of onset)8 days after discontinuation	The patient was found to have metastatic brain tumour. The patient was found to have metastases of squamous cell carcinoma, and she was diagnosed with primary lung cancer. Palliative radiotherapy was performed for pain from the buttock to thigh due to sacral metastases and bladder and rectal disorder (total dose: 40 Gy, site: Sacrum, until the 9 days after administration). Thereafter, numbness continued to expand and spread to the feet, and feelings of weakness of both legs additionally occurred. Administration of pembrolizumab was initiated for non-small cell lung cancer (squamous cell carcinoma of lung, cT1cN0M1c, stage IVB) which was diagnosed as a result of metastatic brain tumour, and for multiple metastases. The third course of pembrolizumab was administered. Dysaesthesia in both upper extremities and below the precordial region appeared. The patient also noticed numbness of both hands and dysaesthesia (feeling cold) in the precordial region in addition to aggravation of numbness of both lower extremities and feelings of weakness which had occurred before the initiation of administration. Difficulty moving the hands newly appeared. She made an unscheduled visit to the hospital. Superficial hypoesthesia in the whole area below the lower cervical spinal cord and deep sensory ataxic movement disorder were noted. Administration of pembrolizumab was discontinued after the day of onset. The patient visited the neurology department. She had very mild muscular weakness in the left fingers, increased tendon reflexes in the upper extremities, and intense subjective numbness in the distal extremities with left dominance (no hypoaesthesia). A cervical spinal cord at the C2-3 level, and a lesion mainly in the costerior funiculus of the cervical spina RI revealed an extensive abnormal signal mainly in the center of the cervical spina RI revealed a small lesion similar to that in the cervical spinal cord at the Th3-4 level. A thoracic spine MRI revealed a small lesion similar to that in the cervical spinal cord at the T

			protein negative, oligoclonal band negati and no specific abnormalities were
			observed.
			Adenosine deaminase (cerebrospinal flu
			Less than 2.0 U/L, albumin (cerebrospin
			fluid): 188 mg/L, IgA (cerebrospinal fluid)
			0.5 mg/dL, IgG (cerebrospinal fluid): 9
			mg/dL, IgM (cerebrospinal fluid): 1 mg/d
			(less than 1), color: Colorless, opacity:
			Absent, glucose (cerebrospinal fluid): 56
			mg/dL, total protein (cerebrospinal fluid):
			mg/dL, LDH (cerebrospinal fluid): 13 U/L
			Na (cerebrospinal fluid): 145 mmol/L, K
			(cerebrospinal liuid): 3.0 mmol/L, Ci
			Blood test: Anti-aquanorin-4 antibody wa
			negative (less than 1.5) negative and ar
			MOG antibody was negative.
			IaA (serum): 142 ma/dL. IaG (serum): 2
			mg/dL, IgM (serum): 134 mg/dL.
			Peripheral nerve conduction test: (Right
			midline, tibial-sural nerve) approximately
			within normal limits.
			As no specific abnormalities were observed
			in cerebrospinal fluid and blood tests, the
			condition was judged to be drug-induced
			autoimmune myelitis. She returned hom
			temporarily at her request.
		10 days after	The patient was admitted to the hospital
		discontinuation	queasy and aggravation of numbress of
		11 days offer	Ine IIMDS.
		discontinuation	mutavenous unp infusion of
		discontinuation	ma once daily was administered for 3 da
		17 days after	Intravenous drip infusion of
		discontinuation	methylprednisolone sodium succinate 5
		discontinuation	ma once daily was administered again for
			days and the symptoms gradually
			improved. The lesions also disappeared
			There was no relapse thereafter.
			Administration of immunoglobulins/plasn
			exchange and antibiotics/antivirals was i
			performed.
		20 days after	Numbness of the limbs and feelings of
		discontinuation	weakness gradually improved.
		21 days after	Abnormal signals on a cervical spine MF
		discontinuation	decreased in intensity and diminished in
			range.
		38 days after	Myelitis was recovering.
		discontinuation	
		Approximately	Administration of pembrolizumab was
		65 days after	resumed at the patient's request.
		discontinuation	
		(Start date of re-	
		504 days after	Administration of nembrolizymap was
		re-administration	continued and there was no recurrence
			myelitis or other notable adverse reaction
Concomi	tant drugs: Pregabalin, le	acetam oxycodone hydrochloride	bydrate clanzanine naldemedine tosilate
magnesi	im oxide precipitated cal	carbonate/cholecalciferol/magne	esium carbonate lansoprazole loxoprofen
sodium h	vdrate, denosumab (gene	I recombination)	
Sources:	<u>, </u>		
Kenji Oh	(ita, Sayaka Yamamoto, I	Maeno, Masahiro Omura, Takana	ari Toyoda, Shoji Kawashima, Masayuki
IVIIZUNO, 60 A cas	epper rujioka, Noriyuki N of myelitis caused by pe	ukawa rolizumah	
The 153	d Tokai-Hokuriku Region	eeting of the Japanese Societv of	Neurology; 40
Ai Fujii, k	en Maeno, Tomohiro On	Hirono Nishiyama, Sayaka Yama	moto, Yoshitsugu Inoue, Norihisa Takeda,
Konsiiko	Fukumitsu, Satoshi Fuku	Yoshihiro Kanemitsu, Takehiro Ue	emura, Tomoko Tajiri, Hirotsugu Okubo,
Vetel	J, AKIO NIIMI, KENJI Ühkita	brolizumab	
Yutaka It	ase of myeline calleed au		
Yutaka It A-19 A c The 134t	h Tokai Regional Society	he Japanese Society for Tubercul	osis, the 116th Tokai Regional Society of th
Yutaka It A-19 A c The 134t Japanes	h Tokai Regional Society Respiratory Society, the	ne Japanese Society for Tubercul h Chubu Branch Meeting of the Ja	osis, the 116th Tokai Regional Society of th apan Society of Sarcoidosis and other

uase	Case summary					
		Patient	Daily dose/	Adverse reaction		
No.	Sex/ age	Reason for use (complication)	administration duration	Clinical course and treatment		
2	Male 60s	Bladder cancer (atrial fibrillation)	200 mg, 1 course every 3 weeks (total number of doses: unknown)	Myelitis, limbic e <past his<br="" medical="">Cardiogenic trans Day 1 of administration (day of completion) 548 days after completion (day of onset) 554 days after completion 634 days after completion 645 days after completion 645 days after completion 653 days after completion 653 days after completion</past>	 Arcephalitis Administration of pembrolizumab was initiated for bladder cancer. Administration of pembrolizumab was completed (total number of doses: Unknown). Memory impairment (amnesia), numbness of the left lower extremity and transient weakness of the lower extremites appeared. An MRI was performed. An MRI was performed. An MRI was performed. An MRI was performed. An MRI performed at another hospital showed a T2 hyperintensity in the bilateral medial temporal lobes and abnormal signals in the grey matter area from Th7 to lumbar enlargement. The patient was transferred to this hospital. Flaccid paralysis of both lower extremities, sensory disturbance of both lower extremities, and short-term memory impairment were present. Anti-AQP4 antibody was legative, thyroglobulin antibody was las and peroxidase antibody was las and peroxidase on DWI was suspected, but no decrease in diffusion was observed. A slight signal increase on DWI was suspected, but no decrease in diffusion was observed. A slight signal increase on FLAIR was also suspected in the left amygdala. Age-related ischaemic changes were seen in the bilateral cerebral white matter, but there was no significant change. No abnormality was observed in the cerebral vessels. A hyperintensity area was observed in the thoracic spinal cord grey matter below Th6 on T2WI. The lesion was and clear on the sagital plane, but it may have existed in the same area even on an MRI performed 634 days after the completion of administration of pembrolizumab. A blood test revealed the following: CRP: 4.67, immunoglobulin IgA: 339, immunoglobulin IgA: 250, i	

ĺ		I	I	RPR R.U.: 0.0. vitamin B12: 1 800. folic
				acid: 5.5.free triiodothyronine: 1.45. free
				thyroxine: 0.98, thyroid stimulating
				hormone: 0.495, TSH IFCC: 0.540, WBC:
				8.4×10^{3} /µL, anti-aquaporin 4 antibody:
				Less than 1.5, IGE (nonspecific): 849.0,
				vitamin B1: 27, ACE: 7.4, PR3-ANCA: Less
				than 1.0, MPO-ANCA: Less than 1.0,
				antinuclear antibody (fluorescence): 40,
				homogeneous: Undetected, speckled: 40,
				Indetected, discrete Sp. (contromoro):
				Undetected
				A cerebrospinal fluid test revealed the
				following: Cerebrospinal fluid-color: Clear
				and colorless, total cerebrospinal fluid cell
				count: 17, cerebrospinal fluid WBC: 17,
				monocytes: 16, polymorphonuclear cell: 1,
				other cells: 0, cerebrospinal fluid red blood
				cell count: 300, cerebrospinal fluid occult
				blood reaction: (2+), cerebrospinal fluid-
				cerebrospinal fluid-glucose, 51
				cerebrospinal fluid IgG: 35 cerebrospinal
				fluid IaA: 3. cerebrospinal fluid IaM: 1
			Approximatelv	Administration of aciclovir 675 mg was
			653 davs after	initiated (end date: Unknown).
			completion	
			655 days after	Intravenous drip infusion of
			completion	methylprednisolone sodium succinate 1000
			-	mg once daily was administered for 3 days
				(the first steroid pulse).
			662 days after	Intravenous drip infusion of
			completion	me once daily was administered for 3 days
				(the second steroid pulse). Findings on
				images showed improvement.
			663 days after	Hoarseness and bulbar symptoms
			completion	appeared.
			667 days after	Decreased blood pressure, hypoventilation
			completion	and respiratory failure occurred before
				dawn, and the patient was admitted to the
				mechanical ventilation was initiated. The
				bulbar lesions expanded Intravenous drip
				infusion of polyethylene glycol-treated
				normal human immunoglobulin (IVIg) 25 g
				was administered for 5 days.
			680 days after	Intravenous drip infusion of
			completion	methylprednisolone sodium succinate 1000
				mg once daily was administered for 3 days
			605 days after	(life liftid steroid puise). After plasma exchange therapy was
			completion	performed 9 times, disturbed
			compiction	consciousness, higher brain dysfunction,
				sensory disturbance of the lower
				extremities, and limbic encephalitis
				improved. Severe bulbar palsy and flaccid
				paraplegia remained. As various antibodies
				the patient was diagnosed with control
				nervous system immune-related adverse
				event (irAE).
			735 days after	The patient's condition stabilized, and he
			completion	was transferred to another hospital for
				rehabilitation.
				I hereatter, flaccid paraplegia remained
				bis sickbed. Pressure sore infection was
				present
			778 davs after	The patient complained of numbness of the
			completion	lower extremities and pain. Relapse was
	-	•		-

	829 days after completion	suspected at the rehabilitation hospital, and he was transferred to this hospital. Based on an MRI, relapse was unlikely, but pressure sore infection and respiratory tract infection repeated, with a tendency of CO ₂ retention. His consciousness level also decreased. Palliation was selected after discussion on the treatment policy, and he was not placed under ventilator management. Severe paraplegia, bladder and rectal disorder, and severe sensory disturbance were present as sequelae of myelitis and limbic encephalitis. The patient died of respiratory failure.		
Concomitant drugs: Unknown				
Sources: Satoki Ito, Hazuki Watanabe, Teruyasu Kato, Tatsuru Okochi, Takahito Fukuno, Takafumi Misawa, Yuka Tanimoto, Hayato Kondo, Daiyu Honda, Yoji Goto, Kazuo Mano "B-25 A case of limbic encephalitis and myelitis developing more than one year after administration of an immune checkpoint inhibitor." The 164th Tokai-Hokuriku Regional Meeting of the Japanese Society of Neurology; 24				

4 Revision of PRECAUTIONS (No.347) This section presents details of revisions to the PRECAUTIONS and brand names of drugs that are been revised in accordance with the Netifications dated, January 10, 2024

have been revised in accordance with the Notifications dated January 10, 2024.

1 Psychotropic agents	rachlarida
Brand name	Jzoloft Tablets 25 mg, 50 mg, 100 mg, Jzoloft OD Tablets 25 mg, 50 mg, 100 mg (Viatris Pharmaceuticals Japan Inc.), and the others
Important Precautions (newly added)	Thrombocytopenia may occur. Blood tests should be performed during the period that this drug is administered.
Adverse Reactions Clinically Significant Adverse Reactions (newly added) [Under new instructions]	Thrombocytopenia
8. IMPORTANT PRECAUTIONS (newly added)	<common all="" indications="" to=""> Thrombocytopenia may occur. Blood tests should be performed during the period that this drug is administered.</common>
11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added)	<u>Thrombocytopenia</u>
2 Diuretics [1] Acetazolam [2] Acetazolam	ide ide sodium
Brand name	[1] Diamox Powder, Diamox Tablets 250 mg (Sanwa Kagaku Kenkyusho Co., Ltd.) [2] Diamox for Injection 500 mg (Sanwa Kagaku Kenkyusho Co., Ltd.)
[Under new instructions] 11. ADVERSE REACTIONS 11.1 Clinically Significant Adverse Reactions (newly added)	Acute respiratory distress syndrome, pulmonary oedema If rapidly progressive dyspnoea, hypoxaemia, or chest X-ray abnormalities such as diffuse infiltrative shadow in both lungs are observed, administration of this drug should be discontinued, and appropriate measures should be taken.
3 Adrenal hormone pre	parations ate
Brand name	Cortone Tablets 25 mg (Nichi-Iko Pharmaceutical Co., Ltd.)
8. IMPORTANT PRECAUTIONS	It has been reported that tumour lysis syndrome occurred when hydrocortisone preparations (injections) were administered to patients
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(newly added)	with lymphoid tumours. Patients should be carefully monitored by	
(nomy added)	checking serum electrolyte levels, renal function, etc.	
11. ADVERSE	<u>Iumour lysis syndrome</u>	
11.1 Clinically	patients with lymphoid tumours. If any abnormalities are observed	
Significant Adverse	appropriate measures (e.g., administration of physiological saline	
Reactions	solution and/or hyperuricaemia therapeutic agents, and dialysis)	
(newly added)	should be taken, and patients should be carefully monitored until	
	recovery from such symptoms.	
4 Adrenal hormone pr	eparations	
Dexamethaso	ne (oral dosage form)	
(preparations	indicated for multiple myeloma)	
Brand name	LenaDex Tablets 2 mg, 4 mg (Bristol-Myers Squibb K.K.)	
[Under new instructions]		
	I umour lysis syndrome may occur. Patients should be carefully monitored by checking serum electrolyte levels, renal function, etc.	
(newly added)		
11. ADVERSE	Tumour lycic syndromo	
REACTIONS	If any abnormalities are observed, appropriate measures (e.g.	
11.1 Clinically	administration of physiological saline solution and/or hyperuricaemia	
Significant Adverse Reactions	therapeutic agents, and dialysis) should be taken, and patients should	
(newly added)	be carefully monitored until recovery from such symptoms.	
 [1] Dexametha lymphoid ta [2] Dexametha [3] Hydrocortia [4] Hydrocortia [4] Hydrocortia [5] Prednisolo [6] Prednisolo [6] Prednisolo [7] Methylpred [8] Methylpred [9] Methylpred Brand name 	 sone (oral dosage form) (preparations indicated for umours) sone sodium phosphate (injections) sone sone sodium succinate (preparations indicated for umours) ne (oral dosage form) ne sodium succinate nisolone nisolone sodium succinate nisolone acetate [1] Decadron Elixir 0.01% (Nichi-Iko Pharmaceutical Co., Ltd.), and the others Decadron Tablets 0.5 mg, 4 mg (Nichi-Iko Pharmaceutical Co., Ltd.) LenaDex Tablets 2 mg, 4 mg (Bristol-Myers Squibb K.K.) [2] Orgadrone Injection 1.9 mg, 3.8 mg, 19 mg, Decadron Phosphate Injection 1.65 mg, 3.3 mg, and 6.6 mg (Sandoz Pharma K.K.), and the others [3] Cortril Tablets 10 mg (Pfizer Japan Inc.) [4] Solu-Cortef Injection 100 mg (Pfizer Japan Inc.), and the others [5] Predonine Tablets 5 mg (Shionogi Pharma Co., Ltd.), and the others [6] Predonine for Injection 10 mg, 20 mg, 50 mg (Shionogi Pharma 	

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	Co., Ltd.) [7] Medrol Tablets 2 mg, 4 mg (Pfizer Japan Inc.)
	[8] Solu-Medrol for Intravenous Use 40 mg, 125 mg, 500 mg, 1000 mg
	[9] Depo-Medrol Sterile Aqueous Suspension 20 mg, 40 mg (Pfizer
[Under old instructions]	Japan Inc.)
Important Precautions	Tumour lysis syndrome may occur when this drug is administered to
(newly added)	patients with lymphoid tumours. Patients should be carefully monitored by checking serum electrolyte levels, repai function, etc.
Adverse Reactions	Tumour lysis syndrome:
Adverse Reactions	<u>I umour lysis syndrome may occur when this drug is administered to</u> patients with lymphoid tumours. If any abnormalities are observed,
(newly added)	appropriate measures (e.g., administration of physiological saline
	should be taken, and patients should be carefully monitored until
[Inder new instructions]	recovery from such symptoms.
8. IMPORTANT	<common all="" indications="" to=""></common>
PRECAUTIONS (newly added)	Tumour lysis syndrome may occur when this drug is administered to patients with lymphoid tumours. Patients should be carefully monitored
	by checking serum electrolyte levels, renal function, etc.
11. ADVERSE REACTIONS	<u>Iumour lysis syndrome</u> Tumour lysis syndrome may occur when this drug is administered to
11.1 Clinically	patients with lymphoid tumours. If any abnormalities are observed,
Reactions	solution and/or hyperuricaemia therapeutic agents, and dialysis)
(newly added)	should be taken, and patients should be carefully monitored until
Adrenal hormone pre	anarations
6 Adrenal hormone pre	eparations le palmitate
6 Adrenal hormone pre Dexamethasor Brand name	eparations Te palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation)
6 Adrenal hormone pre Dexamethason Brand name [Under new instructions]	eparations IE palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation)
6 Adrenal hormone pre Dexamethason Brand name [Under new instructions] 8. IMPORTANT PRECAUTIONS	eparations Te palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) <u>It has been reported that tumour lysis syndrome occurred when</u> dexamethasone preparations (oral dosage form and injections) were
6 Adrenal hormone pre Dexamethason Brand name [Under new instructions] 8. IMPORTANT PRECAUTIONS (newly added)	eparations De palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) <u>It has been reported that tumour lysis syndrome occurred when</u> <u>dexamethasone preparations (oral dosage form and injections) were</u> <u>administered to patients with lymphoid tumours. If rapid electrolyte</u>
6 Adrenal hormone pre Dexamethason Brand name [Under new instructions] 8. IMPORTANT PRECAUTIONS (newly added)	Peparations Deparations Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) <u>It has been reported that tumour lysis syndrome occurred when</u> <u>dexamethasone preparations (oral dosage form and injections) were</u> <u>administered to patients with lymphoid tumours. If rapid electrolyte</u> <u>abnormalities, acute kidney injury, etc. are observed after</u> administration of this drug, appropriate measures should be taken with
6 Adrenal hormone pre Dexamethason Brand name [Under new instructions] 8. IMPORTANT PRECAUTIONS (newly added)	eparations e palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) <u>It has been reported that tumour lysis syndrome occurred when</u> <u>dexamethasone preparations (oral dosage form and injections) were</u> <u>administered to patients with lymphoid tumours. If rapid electrolyte</u> <u>abnormalities, acute kidney injury, etc. are observed after</u> <u>administration of this drug, appropriate measures should be taken with</u> <u>consideration given to the possibility of tumour lysis syndrome.</u>
6 Adrenal hormone pre Dexamethason Brand name [Under new instructions] 8. IMPORTANT PRECAUTIONS (newly added) 7 Adrenal hormone pre	eparations Department Department Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) <u>It has been reported that tumour lysis syndrome occurred when</u> <u>dexamethasone preparations (oral dosage form and injections) were</u> <u>administered to patients with lymphoid tumours. If rapid electrolyte</u> <u>abnormalities, acute kidney injury, etc. are observed after</u> <u>administration of this drug, appropriate measures should be taken with</u> <u>consideration given to the possibility of tumour lysis syndrome.</u>
6 Adrenal hormone pre Dexamethasor Brand name [Under new instructions] 8. IMPORTANT PRECAUTIONS (newly added) 7 Adrenal hormone pre [1] Hydrocortis	eparations Example 2 Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) <u>It has been reported that tumour lysis syndrome occurred when</u> dexamethasone preparations (oral dosage form and injections) were administered to patients with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney injury, etc. are observed after administration of this drug, appropriate measures should be taken with consideration given to the possibility of tumour lysis syndrome. Exparations Sone sodium succinate (preparations not indicated
 Adrenal hormone pre Dexamethasor Brand name [Under new instructions] IMPORTANT PRECAUTIONS (newly added) 7 Adrenal hormone pre [1] Hydrocortis for lymphoi [2] Hydrocortis 	eparations E palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) <u>It has been reported that tumour lysis syndrome occurred when</u> <u>dexamethasone preparations (oral dosage form and injections) were</u> <u>administered to patients with lymphoid tumours. If rapid electrolyte</u> <u>abnormalities, acute kidney injury, etc. are observed after</u> <u>administration of this drug, appropriate measures should be taken with</u> <u>consideration given to the possibility of tumour lysis syndrome.</u> Exparations Sone sodium succinate (preparations not indicated d tumours) sone sodium phosphate
 Adrenal hormone pre Dexamethasor Brand name [Under new instructions] IMPORTANT PRECAUTIONS (newly added) 7 Adrenal hormone pre [1] Hydrocortis for lymphoi [2] Hydrocortis Brand name 	eparations e palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) <u>It has been reported that tumour lysis syndrome occurred when dexamethasone preparations (oral dosage form and injections) were administered to patients with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney injury, etc. are observed after administration of this drug, appropriate measures should be taken with consideration given to the possibility of tumour lysis syndrome. eparations cone sodium succinate (preparations not indicated tumours) cone sodium phosphate [1] Solu-Cortef for Intravenous Use 250 mg, 500 mg, 1000 mg (Pfizer </u>
 Adrenal hormone pre Dexamethasor Brand name [Under new instructions] IMPORTANT PRECAUTIONS (newly added) 7 Adrenal hormone pre [1] Hydrocortis for lymphoi [2] Hydrocortis Brand name 	 A parations A palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) It has been reported that tumour lysis syndrome occurred when dexamethasone preparations (oral dosage form and injections) were administered to patients with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney injury, etc. are observed after administration of this drug, appropriate measures should be taken with consideration given to the possibility of tumour lysis syndrome. A parations A properties and the properties of tumour lysis syndrome. A parations A paration of the properties of the parations of the para
 Adrenal hormone pre Dexamethason Brand name [Under new instructions] IMPORTANT PRECAUTIONS (newly added) Adrenal hormone pre [1] Hydrocortis for lymphoi [2] Hydrocortis Brand name 	 A parations A palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) It has been reported that tumour lysis syndrome occurred when dexamethasone preparations (oral dosage form and injections) were administered to patients with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney injury, etc. are observed after administration of this drug, appropriate measures should be taken with consideration given to the possibility of tumour lysis syndrome. A parations A paration of the possibility of tumour lysis syndrome. A parations A parations A parations A paration of the possibility of tumour lysis syndrome.
 Adrenal hormone pre Dexamethasor Brand name [Under new instructions] IMPORTANT PRECAUTIONS (newly added) Adrenal hormone pre [1] Hydrocortis for lymphoi [2] Hydrocortis Brand name [Under old instructions] Important Precautions 	 A parations A palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) It has been reported that tumour lysis syndrome occurred when dexamethasone preparations (oral dosage form and injections) were administered to patients with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney injury, etc. are observed after administration of this drug, appropriate measures should be taken with consideration given to the possibility of tumour lysis syndrome. A parations A properties and the possibility of tumour lysis syndrome. A parations A properties and the possibility of tumour lysis syndrome. A paparations A properties and the possibility of tumour lysis syndrome. A paparations A properties and the possibility of tumour lysis syndrome. A paparations A paparations A properties and the possibility of tumour lysis syndrome. A paparations A properties and the possibility of tumour lysis syndrome or line and the possibility of tumour lysis syndrome or line and the others A paparation of the possibility of tumour lysis syndrome occurred when and the others A paparation of the possibility of tumour lysis syndrome occurred when and the others A paparation of the post of the
 Adrenal hormone pre Dexamethasor Brand name [Under new instructions] IMPORTANT PRECAUTIONS (newly added) Adrenal hormone pre [1] Hydrocortis for lymphoi [2] Hydrocortis Brand name [Under old instructions] Important Precautions (newly added) 	 apparations be palmitate Limethason Intravenous Injection 2.5 mg (Mitsubishi Tanabe Pharma Corporation) <u>It has been reported that tumour lysis syndrome occurred when dexamethasone preparations (oral dosage form and injections) were administered to patients with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney injury, etc. are observed after administration of this drug, appropriate measures should be taken with consideration given to the possibility of tumour lysis syndrome.</u> apparations bone sodium succinate (preparations not indicated d tumours) cone sodium phosphate [1] Solu-Cortef for Intravenous Use 250 mg, 500 mg, 1000 mg (Pfizer Japan Inc.), and the others [2] Hydrocortone Injection 100 mg, 500 mg (Nichi-Iko Pharmaceutical Co., Ltd.), and the others <u>It has been reported that tumour lysis syndrome occurred when hydrocortisone preparations (injections) were administered to patients with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney</u>

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[Under new instructions] 8. IMPORTANT PRECAUTIONS (newly added)	injury, etc. are observed after administration of this drug, appropriate measures should be taken with consideration given to the possibility of tumour lysis syndrome. It has been reported that tumour lysis syndrome occurred when hydrocortisone preparations (injections) were administered to patients with lymphoid tumours. If rapid electrolyte abnormalities, acute kidney injury, etc. are observed after administration of this drug, appropriate measures should be taken with consideration
8 Adrenal hormone pro	eparations
Prednisolone :	sodium phosphate
Brand name	Predonema Enema 20 mg (Kyorin Pharmaceutical Co., Ltd.)
[Under new instructions]	
8. IMPORTANT	It has been reported that tumour lysis syndrome occurred when
PRECAUTIONS	prednisolone preparations (oral dosage form and injections) were
(newly added)	administered to patients with tymphoid tumours. It rapid electrolyte abnormalities, acute kidney injury, etc. are observed after
	administration of this drug, appropriate measures should be taken with
	consideration given to the possibility of tumour lysis syndrome.
O Other antitumor age	nts
Atezolizumab	(genetical recombination)
Brand name	Tecentrig for Intravenous Infusion 840 mg, 1200 mg (Chugai
	Pharmaceutical Co., Ltd.)
[Under new instructions]	
11. ADVERSE	
	Enconholitia maningitia mualitia
Significant Adverse	Encephanus, meninglus <u>, myenus</u>
Reactions	
	-1-
10 Other antitumor age	nts
[1] Encorateni	D
[2] Binimetinib	
Brand name	[1] Braftovi Capsules 50 mg, 75 mg (Ono Pharmaceutical Co., Ltd.)
[Inder new instructions]	[2] Mektovi Tablets 15 mg (Ono Pharmaceutical Co., Ltd.)
	Tumour lycis syndrome may occur. Patients should be carefully
PRECAUTIONS	monitored by checking serum electrolyte levels renal function etc
(newly added)	
11. ADVERSE	Tumour lysis syndrome
REACTIONS	If any abnormalities are observed, administration of this drug should
11.1 Clinically	be discontinued, appropriate measures (e.g., administration of
Significant Adverse	physiological saline solution and/or hyperuncaemia inerapeutic agents, and dialysis) should be taken, and patients should be carefully
(newly added)	monitored until recovery from such symptoms.
11 Other antitumor age	nts
Pembrolizuma	b (genetical recombination)
Brand name	Keytruda Injection 100 mg (MSD K.K.)
[Under new instructions]	
Pharmaceuticals and Medical	Devices

Encephalitis, meningitis, myelitis

Ciltacabtagene	e autoleucel
Brand name	Carvykti Suspension for Intravenous Infusion (Janssen Pharmaceutical K.K.)
Important Precautions (newly added)	Occurrence of lymphoid neoplasm of CAR-positive T-cell origin has been reported in patients treated with ciltacabtagene autoleucel. Although the causal relationship with ciltacabtagene autoleucel is not clear, caution should be exercised for the onset of lymphoid neoplasms.

List of Products Subject to Early Post-marketing Phase Vigilance

5

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		
	Brand name	Name of the MAH	Date of EPPV initiate
0	Bimekizumab (genetical recombination) ^{*1} Bimzelx Syringe for S.C. injection 160 mg, Bimzelx Autoinjector for S.C. injection 160 mg	UCB Japan Co. Ltd.	December 22, 2023
0	Eltrombopag olamine Revolade Tablets 12.5 mg, 25 mg	Novartis Pharma K.K.	December 22, 2023
0	Brexpiprazole ^{*2} Rexulti tablets 1 mg, 2 mg, Rexulti OD tablets 0.5 mg, 1 mg, 2 mg	Otsuka Pharmaceutical Co., Ltd.	December 22, 2023
0	Cefiderocol tosilate sulfate hydrate Fetroja for Intravenous Drip Infusion 1 g	Shionogi & Co., Ltd.	December 20, 2023
0	Lecanemab (genetical recombination) Leqembi for Intravenous Infusion 200 mg, 500 mg	Eisai Co., Ltd.	December 20, 2023
0	Difelikefalin acetate Korsuva IV Injection Syringe for Dialysis 17.5 µg, 25.0 µg, 35.0 µg	Maruishi Pharmaceutical Co., Ltd.	December 13, 2023
0	Coronavirus (SARS-CoV-2) RNA vaccine ^{*3} Daichirona for Intramuscular Injection	Daiichi Sankyo Co., Ltd.	December 1, 2023
0	Rozanolixizumab (genetical recombination) Rystiggo for S.C. Injection 280 mg	UCB Japan Co. Ltd.	November 28, 2023
0	Rivaroxaban ^{*4} [1] Xarelto tablets 10 mg, [2] Xarelto fine granules 10 mg, [3] Xarelto OD tablets 10 mg, [4] Xarelto dry syrup for pediatric 51.7 mg, [5] Xarelto dry syrup for pediatric 103.4 mg, [6] Xarelto tablets 2.5 mg	Bayer Yakuhin, Ltd.	November 24, 2023
0	Epcoritamab (genetical recombination) Epkinly Subcutaneous Injection 4 mg, 48 mg	Genmab K.K.	November 22, 2023
0	Efanesoctocog alfa (genetical recombination) Altuviiio Intravenous 250, 500, 1000, 2000,	Sanofi K.K.	November 22, 2023

(As of December 31, 2023) ⊚: Products for which EPPV was initiated after November 1, 2023

Nonproprietary name		Name of the MAH	Data of EDD\/ initiato
Brand name			
	3000, 4000		
0	Inclisiran sodium Leqvio for s.c. injection syringe 300 mg	Novartis Pharma K.K.	November 22, 2023
0	Pertuzumab (genetical recombination)/ trastuzumab (genetical recombination)/ vorhyaluronidase alfa (genetical recombination) Phesgo Combination for Subcutaneous Injection MA, Phesgo Combination for Subcutaneous Injection IN	Chugai Pharmaceutical Co., Ltd.	November 22, 2023
0	Coronavirus (SARS-CoV-2) RNA vaccine	Moderna Japan Co.,	November 1,
	Spikevax Intramuscular Injection		2023
	Pegaspargase Oncaspar I.V. Infusion 3750	Nihon Servier Co. Ltd.	October 2, 2023
	Ritlecitinib tosilate Litfulo Capsules 50 mg	Pfizer Japan Inc.	September 27, 2023
	Coronavirus Modified Uridine RNA Vaccine (SARS-CoV-2) Comirnaty intramuscular injection for 6 months to 4 years old	Pfizer Japan Inc.	September 26, 2023
	Tralokinumab (genetical recombination) Adtralza S.C. Injection 150 mg Syringe	LEO Pharma K.K.	September 26, 2023
	Dupilumab (genetical recombination) [1] Dupixent S.C. Injection 200 mg Syringe, [2] Dupixent S.C. Injection 300 mg Syringe, [3] Dupixent S.C. Injection 300 mg Pen	Sanofi K.K.	September 25, 2023
	Lenacapavir sodium Sunlenca Subcutaneous Injection 463.5 mg, Sunlenca Tablets 300 mg	Gilead Sciences K.K.	September 13, 2023
	Futibatinib Lytgobi tablets 4 mg	TAIHO Pharmaceutical Co., Ltd.	September 7, 2023
	Pegcetacoplan Empaveli for Subcutaneous Injection 1080 mg	Swedish Orphan Biovitrum Japan Co., Ltd.	September 4, 2023
	Eculizumab (genetical recombination) Soliris for Intravenous Infusion 300 mg	Alexion Pharma Godo Kaisha	August 23, 2023
	Ruxolitinib phosphate ^{*5} Jakavi Tablets 5 mg, 10 mg	Novartis Pharma K.K.	August 23, 2023
	Coronavirus modified uridine RNA vaccine (SARS-CoV-2) Spikevax Intramuscular Injection	Moderna Japan Co., Ltd.	August 2, 2023
	Purified pineapple stem juice NexoBrid gel 5 g	Kaken Pharmaceutical Co., Ltd.	August 1, 2023

Nonproprietary name Brand name	Name of the MAH	Date of EPPV initiate
Foslevodopa/foscarbidopa hydrate Vyalev combination subcutaneous infusion	AbbVie GK	July 26, 2023
Anti-human thymocyte immunoglobulin, equine Atgam Intravenous Infusion 250 mg	Pfizer Japan Inc.	July 24, 2023

*1 Psoriatic arthritis (PsA), ankylosing spondylitis (AS), and non-radiographic axial spondyloarthritis (nr-axSpA) in patients who have not sufficiently responded to conventional therapies

*2 Depression/depressed state (for use only in patients who have not sufficiently responded to conventional antidepressant therapies)

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

*4 Prevention of thrombus/embolization formation in patients who have undergone the Fontan procedure

*5 Graft-versus-host disease after haematopoietic stem cell transplant (when steroids are not sufficiently effective)