Pharmaceuticals and Medical Devices Safety Information

No. 363 June 2019

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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) Medical Product Information web page (<u>http://www.pmda.go.jp/english/index.html</u>) and on the MHLW website (<u>http://www.mhlw.go.jp/</u>, only in Japanese).

Available information is listed here

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

The PMDA Medi-navi is an e-mail mailing list service that serves to provide essential safety information released by 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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Pharmaceuticals and Medical Devices Safety Information

No. 363 June 2019

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

No.	Subject	Measures	Outline of Information	Page
1	Direct Patient Re- porting System for Adverse Drug Reactions		In March 2019, MHLW/PMDA started to receive adverse drug reaction reports from patients and their families. This section will outline the opera- tion.	4
2	Research Project on Development of Educational Programs for Healthcare Pro- fessionals who Engage in Inter- views with Pa- tients about Sen- sitive Matters)		The Japan Agency for Medical Research and Development (AMED) conducted Research Pro- ject on Development of Educational Programs for Healthcare Professionals who Engage in In- terviews with Patients about Sensitive Matters as a project from fiscal year 2016 to 2018. This document introduces the summary of the project.	7
3	Important Safety Information	P C	Dulaglutide (genetical recombination), and 4 oth- ers. Regarding the revision of the Precautions of package inserts of drugs in accordance with the Notification dated May 9, 2019, the contents of im- portant revisions and case summaries that served as the basis for these revisions will be presented in this section.	10
4	Revision of Pre- cautions (No. 303)	Р	Dulaglutide (genetical recombination) (and 11 others)	25
5	List of Products Subject to Early Post-marketing Phase Vigilance		List of products subject to Early Post-marketing Phase Vigilance as of April 30, 2019.	33

[Outline of Information]

E: Distribution of Dear Healthcare Professional Letters of Emergency Communication R: Distribution of Dear Healthcare Professional Letters of Rapid Communications P: Revision of Precautions C: Case Summaries

Reporting of safety information such as adverse reactions to the Minister of Health, Labour and Welfare is a duty of providers of medical care and pharmaceutical products.

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

Abbreviations

ADR	Adverse drug reaction
	Adverse drug reaction
ACTH	Adrenocorticotropic hormone
AMED	Japan Agency for Medical Research and Development
BTC	Behind the counter
BUN	Blood urea nitrogen
CRP	C-reactive protein
СТ	Computed tomography
DHEA-S	Dehydroepiandrosterone sulfate
DLST	Drug lymphocyte stimulation test
DVD	Digital versatile disk
eGFR	estimated glomerular filtration rate
EPPV	Early Post-marketing Phase Vigilance
FY	Fiscal year
GH	Growth hormone
HbA1c	Hemoglobin A1c
KL-6	Sialylated carbohydrate antigen KL-6 (Krebs von den Lunge-6)
LDH	Lactate dehydrogenase
Lym	Lymphocyte
MAH	Marketing authorization holder
MHLW	Ministry of Health, Labour and Welfare
MRI	Magnetic resonance imaging
PMDA	Pharmaceuticals and Medical Devices Agency
PMDSI	Pharmaceuticals and Medical Devices Safety Information
WBC	White blood cell

Direct Patient Reporting System for Adverse Drug Reactions

1. Introduction

PMDA launched a patient reporting system for adverse drug reactions on its website on March 26, 2012 as a pilot program. Since then, PMDA has received "patient adverse drug reaction reporting," which is direct reporting on adverse drug reactions from patients and their families. A system to receive reports on adverse drug reactions directly from patients has been introduced overseas including the US, the UK and the Netherlands. A full-scale operation of the patient adverse reaction reporting system was started on March 26, 2019 in Japan based on the pilot program results.

2. Direct patient reporting system for adverse drug reactions

The Direct Patient Reporting System for Adverse Drug Reactions is a program to collect information on cases of suspected adverse reactions to drugs used directly from patients/consumers who experienced such adverse reactions or their families. Collected information is to be used for the purpose of promoting safety measures for drugs, such as identifying the trends in occurrences of adverse drug reactions.

In addition to the reports via the direct reporting system that underwent a trial by PMDA during the pilot period, PMDA also receives reports by postal mail. Information to be reported is about the reporter, patient, drugs that may have caused the suspected adverse reaction, other medications used concomitantly, symptoms, and medical institutions that can be contacted for details.

PMDA may conduct a follow-up survey on the medical institution regarding the received information in order to obtain further details for analysis and assessment of adverse reaction information. Medical institutions or other relevant parties are requested to understand and cooperate with follow-up surveys.

Reported information except personal information is submitted by PMDA to MHLW at regular intervals and shared at the Pharmaceutical Affairs and Food Sanitation Council of MHLW. It is also released on the PMDA website after personal information has been processed so that it is unidentifiable. As part of the safety measures, the reported information except personal information of the reporter, the patient, etc. may also be provided to the marketing authorization holder (MAH) of the drug.

3. How to report

(1) Reporting on the website

Patients can search for the page using the phrase "patient adverse drug reaction reporting" on a major Internet search engine, or click the lower-right banner on the PMDA website (see the chart below for its location on the website) to access the "Direct patient reporting of adverse drug reactions" page (<u>https://www.pmda.go.jp/safety/reports/patients/0004.html</u>, only in Japanese). Patients can start reporting by clicking the "Start reporting" button after accessing "Reporting on the website" under the How to Report section and going to "Direct patient reporting of adverse drug reactions on the website."

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(source information provided only in Japanese)

(2) Report by postal mail

Patients can make a request for the reporting form (References 2) Appendix) by telephone at the reception for the request of PMDA's patients adverse reaction reporting form (03-3506-9546) or by downloading the reporting by clicking "Reporting by postal mail" under the How to Report section on the "Direct patient reporting of adverse drug reactions" page (<u>https://www.pmda.go.jp/safety/reports/patients/0004.html</u>, only in Japanese). After agreeing with

the terms of service and filling out the form, patients should send it to the following address. Address: Shin-Kasumigaseki Bldg., 3-3-2 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 To Division for Direct patient reporting of adverse drug reactions, PMDA Safety Information/Planning and Management Department

4. Cases of patient adverse drug reaction reporting in the pilot period

A total of 717 reports were received from the launch of the direct reporting system as a pilot program to March 31, 2018. Of those reports, 676 reports included at least one prescription drug while 43 reports included at least one over-the-counter/behind-the-counter drug (OTC/BTC) drug. The therapeutic categories that were frequently reported were vaccines and psychotropics for

prescription drugs, and analgesics, anti-itchings, astringents, anti-inflammatory agents, and common cold drugs for OTC/BTC drugs.

The reports in the pilot period neither showed any new safety concerns on drugs nor included cases that were considered to require safety measures such as revision of package inserts.

5. Closing comments

Reporting on adverse drug reactions from many patients contributes to information collection from a different perspective from that of healthcare professionals and MAH and is used for safety measures such as identifying the trends in occurrence of adverse drug reaction. Since it is difficult to identify all adverse reactions of a drug before the launch, collection of adverse reaction information from patients will help safety measures to be conducted.

Of note, a different procedure is required to file for the payment of benefits based on the relief system for adverse drug reactions. Please go to a special site for the relief system (<u>https://www.pmda.go.jp/kenkouhigai_camp/index.html</u>, only in Japanese) for the summary of the relief system, contact information, procedures, etc.

In addition, healthcare professionals are required to report suspected adverse drug reactions they encounter in practice via the Drug and Medical Devices Safety Reporting System (https://www.pmda.go.jp/safety/reports/hcp/pmd-act/0003.html, only in Japanese).

References

- Launching Direct Patient Reporting System for Adverse Drug Reactions, Document 4-1 for the third Committee on Drug Safety for fiscal 2018 dated March 22, 2019 <u>https://www.mhlw.go.jp/content/11121000/000491117.pdf</u> (only in Japanese)
- PSEHB/SD Notification No. 0326-1 Direct Patient Reporting of Adverse Drug Reactions dated March 26, 2019 <u>https://www.mhlw.go.jp/content/000493118.pdf</u> (only in Japanese)

Research Project on Educational Programs for Healthcare Professionals who Engage in Interviews with Patients about Sensitive Matters

1. Medication used to treat multiple myeloma and its management

Since thalidomide as well as lenalidomide and pomalidomide with a similar structure (thalidomides) have potent teratogenicity, the marketing has been approved for indications of multiple myeloma, etc. under the approval condition that strict management procedures to prevent fetus exposure to the drugs (Thalidomide Education and Risk Management System (TERMS) and Proper management procedures for Revlimid and Pomalyst (RevMate)) should be properly followed.

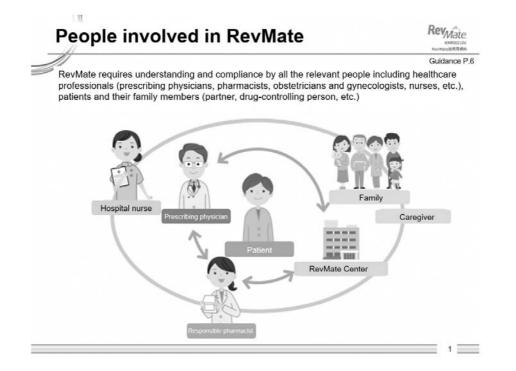
Approximately 50 years have passed since the thalidomide scandal, its background event. We are concerned that this tragic history will fade into obscurity. While a generational shift continues among physicians and pharmacists, it is considered necessary to have a program to teach why both the drug and its derivatives have been managed under the TERMS and RevMate system and why management must be continued in the future, considering the history of the thalidomide scandal and the victims again. The education only makes it possible for us to understand the importance of strict proper management procedures for (teratogenic or possibly teratogenic) thalidomide.

2. Communication regarding sensitive matters

The report complied in the Review Meeting on Safety Management of Thalidomide and Lenalidomide says that it is necessary to maintain the quality and the quantity of communication between patients and healthcare professionals if clinical setting is responsible for checking compliance and explanation to patients, and that it is also important not only to monitor the implementation status of safety management procedures by companies but also to enrich and enhance education for healthcare professionals for that purpose. It requires education for patients/healthcare professionals on sensitive matters including sexual intercourse and contraception as well as compliance with strict proper management procedures of thalidomide. It is essential to train the communication skills of healthcare professionals in order to appropriately obtain informed consent and to improve the quality of communication between healthcare professionals and patients by establishing the educational program for that purpose.

If patients fail to understand a message delivered by healthcare professionals, it is the senders or the healthcare professionals who are to blame for it, not the recipients (of the message) or the patients. Success in communication can be claimed only when it makes differences in the behavior of the other party of communication. Successful communication will enhance the trust of society in drugs and then the realization of safer and more satisfactory medicine can be expected. In the actual clinical practice, thorough communication taking into account scientific uncertainty is indispensable for allowing patients to make a sound "medical decision."

The one-way communication in which healthcare professionals take initiatives and unilaterally instruct patients does not help patients remove their anxiety or doubts. Two-way communication is essential to establish a good relation between healthcare professionals and patients and will be more beneficial. Such communication also contributes to proper information provision by healthcare professionals because it allows accurate understanding of patient's information and conditions, confirms the level of their understanding on treatment, and identifies the episodes (narratives) including each patient's psychological aspects and social backgrounds as well as thoughts and desires (interpretation model) that the patients have in mind regarding their disease and treatment. Medical communication aims at the best treatment given to patients, safety-information delivery (risk communication), opinion exchange among stakeholders, promotion of mutual understanding, and shared responsibility, all of which will be possible only when reliability has been established.



Provided by Celgene Corporation

3. DVD and brochures for healthcare professionals

Entrusted by the Safety Division, MHLW, the Japan Agency for Medical Research and Development (AMED) proceeded with Research Project on Development of Educational Programs for the Medical Practitioners who Engage in Interviews with Patients about Sensitive Matters as a research item from fiscal year 2016 to 2018.

AMED prepared educational materials that can be widely used in clinical settings for the purpose of enhancing medical communication skills of physicians and pharmacists involved in prescribing thalidomide. Such educational programs have rarely been developed in Japan. Specifically, the education program for the prescription of thalidomide is something that has not been established overseas either.

This time, a DVD was created as a drama with modeled interview scenes by physicians or pharmacists in medical consultations from the standpoint of medical psychology. It is strongly desired that the wide use of this educational material will contribute to thorough communication between healthcare professionals and patients and thereby result in prevention of effects on fetuses and best practices.



(source information provided only in Japanese)

Research Project on Development of Educational Programs for Healthcare Professionals who Engage in Interviews with Patients about Sensitive Matters (such as sexual intercourse or contraception)

Japan Agency for Medical Research and Development

Research on Regulatory Science of Pharmaceuticals and Medical Devices for fiscal year 2016-2018

Head of research and development **Kenshi Suzuki** (Myeloma and Amyloidosis Center, Japanese Red Cross Medical Center)

3

Important Safety Information

Regarding the revision of the Precautions of package inserts of drugs in accordance with the Notification dated May 9, 2019, this section will present the details of important revisions as well as the case summaries serving as the basis for these revisions.

1 Dulaglutide (genetical recombination)

Branded name (name of company)	Trulicity Subcutaneous Injection 0.75 mg Ateos (Eli Lilly Japan K.K.)
Therapeutic category	Hormones-miscellaneous
Indications	Type 2 diabetes mellitus

PRECAUTIONS (revised language is underlined)

· · · · · · · · · · · · · · · · · · ·	
[Under Old instructions]	
Adverse Reactions	<u>Severe diarrhea, vomiting:</u>
(Clinically Significant	Cases of severe diarrhea and vomiting have also been reported that
Adverse Reactions)	subsequently caused dehydration, leading to acute kidney injury.
[Under New instructions]	
11. ADVERSE REAC-	Severe diarrhea, vomiting
TIONS	Cases of severe diarrhea and vomiting have also been reported that
11.1 Clinically Significant	subsequently caused dehydration, leading to acute kidney injury.
Adverse Reactions	
Reference information	Number of adverse reactions (for which a causal relationship with the product could not be ruled out) reported during the previous ap- proximately 32-month period (April 2016 to November 2018). Cases involving severe gastrointestinal disorder: 3 (no patient mor- talities)
	Number of patients using the drug as estimated by the MAH during the previous 1-year period: approximately 180 000

Japanese market launch: September 2015

Case summary

		Patient			Adverse reactions
	Sex/	Reason for use	Daily dose		
No.	Age	(complications)	Treatment duration	Clinical co	ourse and therapeutic measures
1	Male 60s	Type 2 diabetes mellitus (Decreased kidney function [creatinine 2.6], hypertension, hy- perlipidemia, hype- ruricemia, rheuma- tism)	0.75 mg/week For 50 days	known Past adverse reac Renal disease, re	ily history/prior medical intervention: un-

	12 days after discontinua- tion	13 days after discontinua- tion	14 days after discontinua- tion	17 days a discontin tion
Norovirus antigen	(-)	-	-	-
Total protein (g/dL)	7.3	-	-	-
BUN (mg/dL)	65	-	65	42
Creatinine (mg/dL)	3.44	-	3.88	2.44
eGFR (mL/min/1.73 m ²)	15	-	13	22
Specific gravity urine	-	1.019	1.012	1.012
Urine protein (mg/day)	-	100	30	100
Urinary sugar	-	(-)	(-)	(-)
Urine ketone bodies	-	(-)	(-)	(-)
Urinary occult blood	-	(-)	(-)	(-)
Potassium (mEq/L)	4.2	-	3.9	4.3
Sodium (mEq/L)	134	-	135	137
Chlorine (mEq/L)	97	-	101	105
Calcium (mg/dL)	9.2	-	8.2	7.8
White blood cells (/µL)	10 500	8 900	10 100	9 000
CRP (mg/dL)	0.077	-	0.031	-
Concomitant therapies: diet the Concomitant medications: sal losartan potassium/hydrochlord	erapy, exercise thera azosulfapyridine, p	ednisolone insuli	n lispro, glimepir	ide, pioglit

2 Empagliflozin

Branded name (name of company)	Jardiance Tablets 10 mg, 25 mg (Boehringer Ingelheim Japan, Inc.)
Therapeutic category	Antidiabetic agents
Indications	Type 2 diabetes mellitus

PRECAUTIONS (revised language us underlined)

[Under Old instructions]	nguage us undernned)
Important Precautions	Urinary tract infection <u>and genital infection</u> may occur, which may lead to serious infections such as pyelonephritis, <u>necrotizing fasciitis</u> (Fournier's gangrene) of the external genitalia and perineum, and sepsis. Patients should be carefully monitored for urinary tract infec- tion and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary dis- continuation of this drug should be considered based on the pa- tient's condition. Symptoms and management of urinary tract infec- tion and genital infection should be explained to patients.
Adverse Reactions	Pyelonephritis <u>, necrotizing fasciitis of the external genitalia</u>
(Clinically Significant Ad-	<u>and perineum (Fournier's gangrene)</u> , sepsis:
verse Reactions)	Pyelonephritis, necrotizing fasciitis (Fournier's gangrene) of the ex- ternal genitalia and perineum may occur, which may lead to sepsis (including septic shock). Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should be discontinued, and appropriate measures should be taken.
[Under New instructions]	
8. IMPORTANT PRECAU- TIONS	Urinary tract infection <u>and genital infection</u> may occur, which may lead to serious infections such as pyelonephritis <u>, necrotising fasciitis</u> of the external genitalia and perineum (Fournier's gangrene), and sepsis. Patients should be carefully monitored for urinary tract infec- tion and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary dis- continuation of this drug should be considered based on the pa- tient's condition. Symptoms and management of urinary tract infec- tion and genital infection should be explained to patients.
11. ADVERSE REAC-	Pyelonephritis <u>, necrotising fasciitis of the external genitalia</u>
TIONS	and perineum (Fournier's gangrene), sepsis
11.1 Clinically Significant Adverse Reactions	Pyelonephritis, <u>necrotising fasciitis of the external genitalia and</u> <u>perineum (Fournier's gangrene)</u> , may occur, which may lead to sepsis (including septic shock).
Reference information	Number of adverse reactions (for which a causal relationship with the product could not be ruled out) reported during the previous ap- proximately 35-month period (April 2016 to February 2019). Cases involving necrotizing fasciitis (Fournier's gangrene) of the ex- ternal genitalia and perineum : 1 (no patient mortalities) Number of patients using the drug as estimated by the MAH during
	the previous 1-year period: approximately 220 000.

Japanese market launch: February 2015

Ļ	Patient _ Daily dose		Adverse reactions						
).	Sex/ Age	Reason for use (complications)	Treatment du- ration		Clinical o	course	and therapeut	ic measures	
	Male 30s	Type 2 dia- betes melli- tus	10 mg For 143 days	Past adverse Drinking alco Smoking: ye Allergy: yes	approxim e reaction ohol: none s (alcohol)	nately 1 history e	/: none	t: approximately	
				ropathy, no i Medical con	neurogeni	c blado	der	liabetes mellitus ce, hygiene cor	
				vorable Day 1 of adr tion:	ninistra-	mg, si		rted on empagli bhate hydrate 5	
				Day 20 of ac tion	dministra-	•		lamide was incr	eased to
				Day 142 of a istration		•	eal pain develo	ped.	
				(Day of occu Day 143 of a istration	,		atient saw a no this hospital.	earby doctor, w	ho refer
				(The day of uation)	discontin-	Inflam	mation was of	oserved from th ody temperatur	
						CT sc The p be the	rimary infectio	Fournier's gang n foci were cons he left perineum scrotum.	sidered
						Emerg forme The p	gency operatio d. atient was star	n and drainage rted on meropei	nem hy-
						mg. Empa	gliflozin, sitagl	mycin phospha iptin phosphate vere discontinue	hydrate
				3 days after uation	discontin-	A cult the wo	ure test detect	ed MRSA from ad been collecte	the pus
						chloric	de 2 g.	rted on vancom	
				uation		subjec	ctive symptom	red from tender s improved. d receiving sitag	
				uation 13 days afte		phosp The p	hate hydrate 5 atient was star		
				tinuation 33 days afte tinuation	r discon-		de 500 mg. ier's gangrene	was recovering	g.
	Labora	tory Examinati		1 day after dis-	6 days at	fter	12 days after	19 days after	
	CDD/	a/dL)	ministration	continuation	discontinua		discontinuation	discontinuation	
	CRP(m WBC		4.05 21.7	13.15 17.0	0.13		0.13	0.04 9.5	
	(10 ³ /µL HbA1c		6.5	-	-		-	-	

3 Nivolumab (genetical recombination)

Branded name (name of company)	Opdivo Intravenous Infusion 20 mg, 100 mg, 240 mg (Ono Pharma- ceutical Co., Ltd.)
Therapeutic category	Antineoplastics-miscellaneous
Indications	Malignant melanomaUnresectable advanced or recurrent non-small cell lung cancerUnresectable or metastatic renal cell carcinomaRelapsed or refractory classical Hodgkin lymphomaRelapsed or metastatic head and neck cancerUnresectable, advanced or recurrent gastric cancer that has pro-gressed after cancer chemotherapyUnresectable, advanced or recurrent malignant pleural mesotheliomathat has progressed after cancer chemotherapy

PRECAUTIONS (revised language us underlined)

[Under Old instructions] Important Precautions	Thyroid dysfunction, <u>pituitary impairment and adrenal disorder</u> may occur. <u>Endocrine</u> function test (measurement of TSH, free T3, free T4, <u>ACTH</u> , <u>blood cortisol</u> , etc.) should be performed prior to and periodically during administration of this drug. <u>In addition, imaging assessment, etc. should be considered to perform as well when required. If any abnormalities are observed, appropriate measures should be taken.</u>
Adverse Reactions (Clinically Significant Ad- verse Reactions)	Pituitary impairment: Pituitary impairment such as hypophysitis, hypopituitarism, and adrenocorticotropic hormone deficiency may occur. Patients should be carefully monitored. If any abnormalities are observed, appropriate measures such as discontinuation of administration should be taken.
Reference information	Number of cases (for which a causal relationship with the product could not be ruled out) reported during the previous approximately 32-month period (April 2016 to November 2018). Cases involving pituitary impairment: 11 (1 instance of patient mor- tality) Number of patients using the drug as estimated by the MAH during the previous 1-year period: approximately 17 000.

Japanese market launch: September 2014

ase	summary	Detient			A di come -	reactions	
	ŀ	Patient	Daily dose		Adverse	reactions	
No.	Sex/Age	Reason for use (complications)	Treatment duration	Clinical course and therapeutic measures			
	Male 60s	Non-small cell lung cancer (with metasta- sis to lymph nodes, metas- tasis to lung, metastasis to skin, metasta- sis to perito- neum, anae- mia, and smoking his- tory)	3 mg/kg every 2 weeks, 7 times in to- tal	function, increas Day 1 of admin- istration: (First admin- istration)	sed C-reactive Administrate was initiate table, adva lung cance noma; trea stage 4; T <i>ALK</i> fusion mutations: enced mal ment, and ter the admi itiated. Since the again at to thasone was	ultiforme, abnormal hepati ve protein tion of nivolumab (3 mg/kg/day ed for the treatment of unresed nced or relapsed non-small ce r (histologic type: adenocarc tment site: the left upper lobe TNM Classification: T4N3M11 a genes: negative; <i>EGFR</i> gen negative). The patient exper aise since the previous treat complained of malaise even a inistration of nivolumab was in patient complained of malais the time of visiting, dexame as administered for treatment. was administered.	
				(day of termina- tion) <u>14 days after</u> <u>termination</u> Date unknown	nivolumab, intake, dial At the mec hypoglycae observed, suspected, was perfor level were continued. crine interr the patien thasone for ously adm was suspe started to r for treatme cinate (100 pophysitis a Head MRI	t visited the hospital to receiv with a fever of 38.5°C, poor or rrhoea, and appetite impaired lical consultation, hypotension and and hyponatraemia wer and adrenal insufficiency wa and a detailed examinatio med. Since ACTH and cortiss decreased, nivolumab was dis lt was consulted with an endo sist, considering the effect that t did not take oral dexame a while that had been continu inistered before. Hypophysiti cted, and therefore, the patien receive hydrocortisone (15 mg nt. Hydrocortisone sodium sud mg) injection was made for hy and increased serum CRP. revealed mild enlargement of y gland, and contrast MRI ref	
				28 days after termination 95 days after termination	vealed sligl age. The endoc of hypophy by the hypo Although h ministratior	htly heterogeneous contrast in rine internist made a diagnos /sitis and adrenal insufficienc	
	Laboratory	Examination					
	,		14 days after termination		94 days after termination		
		(1)		-	Commation		
	ACTH (pg	g/mL)	<1.0	-	-		
			~ ~		0		
	Cortisol (DHEA-S	µg/dL)	0.9 5	- 8	6		

	Patient		Daily dose		Adverse reactions			
No.	Sex/Age	Reason for use (complications)	Treatment duration	Clinical course and therapeutic measures				
2	Male 60s	Non-small cell lung can- cer	3 mg/kg every 2 weeks, 24 times in to-	mone deficiency Day 1 of ad-	Administration of nivolumab (3 mg/kg/day) was			
		(with lumbar disc herni- ation, gastric ulcer, me-	tal	ministration	initiated for the treatment of unresectable, ad vanced or relapsed non-small cell lung cance (histologic type: squamous cell carcinoma stage 4; TNM Classification: T3N3M1a).			
		tastasis to lymph nodes, pleural effu- sion, and		Day 434 of ad- ministration (22nd dose)	Nivolumab was administered.			
		smoking his- tory)		<u>Day 451 of ad-</u> <u>ministration</u>	Hypophysitis was observed. A diagnosis of hypophysitis was made as a result of consultation with a physician specializing in endocrinology based on TSH increased to 20 μ U/mL, FT4 decreased, ACTH decreased and GH decreased Hydrocortisone was administered for treatment Hypothyroidism (malaise), adrenal insufficiency symptoms (malaise, anorexia, nausea, vomiting, diarrhoea, hypotension, hyponatraemia hypoglycaemia, weight decreased, conscious ness disturbed and muscular weakness) were noted as clinical conditions.			
				Day 455 of ad- ministration (23rd dose)	Nivolumab was administered.			
				Day 469 of ad- ministration (24th dose) (day of discon- tinuation)	Nivolumab was administered. Decreased thy roid function was observed. The patient started to receive levothyroxine sodium hydrate (25 µg/day) for the treatment. Nivolumab was dis continued.			
				7 days after discontinuation	MRI was performed. Test results: no mass CT/contrast CT was performed. No findings.			
				8 days after discontinuation	ACTH deficiency was observed. General ma laise worsened. The patient could not eat and visited the emergency department. The patien was hospitalized for acute renal failure to trea decreased thyroid function and ACTH defic ciency (vertigo as chief complaint, hypo natraemia, and increased eosinophil count) Hydrocortisone sodium succinate (100 mg/day was administered for decreased thyroid func tion. The dosage of levothyroxine sodium hy drate was increased to 50 µg/day.			
				9 days after discontinuation	The patient started to receive oral hydrocorti- sone (25 mg/day). Subsequently, the symptom quickly improved but a polyuria trend and hypo- natraemia persisted.			
				Date unknown	A saline-loading test was performed for hypo- natraemia. Urine sodium increased and hypouricemia persisted, and the patient re- sponded well to NaCl load. Cerebral salt-wast- ing syndrome was suspected rather than syn- drome inappropriate ADH (SIADH).			

		12 days afte discontinuation	n ride (1.5 g/da	tarted to receive ay × 3). A rapid A ed. [Findings] no	CTH loading te
		15 days afte discontinuation	n mones, GnR	was performed H (LH-RH) test ar CTH/F: unrespor	nd GRH test we
		16 days afte discontinuation	n duced to 15 r	of hydrocortisone ng/day. MRI/conti dings] no enlarge s	rast MRI was pe
		17 days afte discontinuation		onic saline loadi result was norma	ng test was pe I.
		22 days afte discontinuation		vas discharged fr	om the hospita
		27 days afte discontinuation		resolved.	
		30 days afte discontinuation		ency and decreas overing.	sed thyroid fur
Laboratory	y Examination				
		14 days before administration	Day 451 of ad- ministration	8 days after discontinuation	30 days after discontinuatio
ACTH (p	g/mL)	13.2	-	6.6	6.9
Cortisol (µg/dL)		9.5	-	0.7	1.2
	stimulating hormone (mU/L)	0.63	20	17.4	21.09

4 Lenvatinib mesilate

Branded name (name of company)	Lenvima Capsules 4 mg, 10 mg (Eisai Co., Ltd.)
Therapeutic category	Antineoplastics-miscellaneous
Indications	Unresectable thyroid cancer, unresectable hepatocellular carcinoma

PRECAUTIONS (revised language us underlined)

[Under Old instructions]	
Adverse Reactions	Interstitial lung disease:
(Clinically Significant Ad-	Interstitial lung disease may occur. Patients should be carefully
verse Reactions)	monitored. If any abnormalities are observed, administration of this
	drug should be discontinued and appropriate measures should be
	taken.
Reference information	Number of adverse reactions (for which a causal relationship with the product could not be ruled out) reported during the previous ap- proximately 34-month period (April 2016 to January 2019). Cases involving interstitial lung disease: 5 (1 instance of patient mortality)
	Number of patients using the drug as estimated by the MAH during the previous 1-year period: approximately 9 000.

Japanese market launch: May 2015

Case	sum	mary
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		Patie	ent	Daily dose			Adverse reactions	6	
No.	Sex/Age		ason for use mplications)	Treatment duration		Clinical co	urse and therapeuti	c measures	
1	Male 70s	0s cellular (Type 2	Unresectable hepato- cellular carcinoma (Type 2 diabetes mellitus, liver cirrho-		12 mg For 64 days ↓ Discontinued	Wei The	rstitial pneun ght: 62 kg patient had m moking.	n onia etastases to lymph i	nodes and a history
			eriosclerosis, ageal carci-		2 da	-	Chest CT scan fin lectasis in the bi lobes were detected in S5 of the bilated served, which was post-inflammation lar lesions suggest the lung field were	lateral lower lung ed. Funicular image eral lungs was ob s suggestive of a change. No nodu- ive of metastasis to	
					-	1 of admin- ation:	The patient was st mesilate 12 mg/da		
					istra (The	e 64 of admin- ation e day of dis- tinuation)	Drug-induced Inte developed. It was creased LDH and pulmonologist was induced Interstitial agnosed because (symptom: sputum Chest CT scan find age and ground- came more intense peripheral regions lungs. Drug-induce suspected. No m lung field were of hypertrophy and pleura were obse also a finding of p ther enlargement nodes nor pleural served.	s detected by in- chest CT scan. <i>A</i> s consulted. Drug- pneumonia was di- of elevated KL-6). dings: Funicular im- glass opacity be- e at and around the s of the bilatera ed pneumonia was ass lesions in the bserved. Plate-like calcification at the erved. There was leural plaque. Nei- of thoracic lymph	
						lays after dis- tinuation	The patient was st nisolone 30 mg.	arted on oral pred	
						days after continuation	The patient recov duced Interstitial p	-	
	Laborator	y Exami		_		4 days after	21 days after	35 days after	
			3 days before administration			discontinua- tion		discontinua- tion	
	KL-6 (U/	mL)	-	-		817	865	740	
	SP-D (n	g/mL)	-	-		334.5	193.8	-	
	LDH (IU	/L)	192	280		-	231	183	

		Patient	Daily dose		Adverse reactions
No.	Sex/Age	Reason for use (complications)	Treatment duration	Clinical cou	urse and therapeutic measures
2	Male 50s	Hepatocellular carci- noma (right hypochondrium pain)	8 mg For 10 days ↓ Discontinued	-	nonia etastases to lung. He was a smoker. Chest CT scan findings: multiple me- tastases to lung. Right pleural effu- sion (+), no interstitial shadows were observed.
				Day 1 of admin- istration:	Lenvatinib mesilate 8 mg/day was in- itiated.
				Up to Day 9 of administration	Oxygen saturation was around 95 to 96% (room air).
				Day 10 of admin- istration (The day of dis- continuation)	Oxygen saturation dropped to 84% (room air) in the afternoon. The pa- tient had no subjective symptoms at the time of the drop. Chest CT scan revealed bilateral interstitial shadows in the lung. The patient was diag- nosed with drug-induced interstitial pneumonia.
					Oxygen inhalation started. Steroid pulse therapy was initiated (methylprednisolone sodium succin- ate 1 g for 3 days) SBT/ABPC 6 g/day started. Dyspnoea emerged.
					Chest CT scan findings: bilateral net- like shadows were observed (domi- nantly in the left lung). Sporadic ele- vations in concentration were newly noted. Similar or larger multiple me- tastases were observed compared with the previous scan. Right pleural effusion increased. Scarce left pleu- ral effusion was noted.
				Day 11 of admin- istration (day of discontinuation)	Oxygenation worsened. NPPV was applied. FiO2 was 50%. Administra- tion of lenvatinib mesilate was dis- continued.
				One day after dis- continuation	Oxygenation worsened. NPPV was applied, FiO2 was 80 %. Disturbed consciousness emerged.
				2 days after dis- continuation	The patient passed away form dysp- noea caused by drug-induced inter- stitial pneumonia.

	6 days before administration	Day 8 of ad- ministration	Day 10 of ad- ministration	1 day after dis- continuation	2 days af discontinu tion
KL-6 (U/mL)	-	-	-		831
LDH (IU/L)	360	468	497	916	-
CRP (mg/dL)	11.69	14.28	19.09	13.27	-
β -D-glucan (pg/dL)	-	-	2.0	-	-

5 Influenza HA vaccine

	Influenza HA Vaccine "Seiken" (Denka Seiken Co., Ltd.)
	Influenza HA Vaccine "KMB" (KM Biologics Co., Ltd.)
	Influenza HA Vaccine "Daiichi Sankyo" Syringe 0.25 mL and 0.5
Branded name	mL, Influenza HA Vaccine "Daiichi Sankyo" 1 mL (Daiichi Sankyo
(name of company)	Co., Ltd.)
	Flubik HA, and Flubik HA Syringe, Influenza HA Vaccine "Biken"
	(The Research Foundation for Microbial Diseases of Osaka Univer-
	sity)
Therapeutic category	Vaccines
Indications	Prophylaxis of influenza

PRECAUTIONS (revised language us underlined) [Under Old instructions]

[Under Old instructions] Adverse Reactions (Clinically Significant Ad- verse Reactions)	Oculomucocutaneous syndrome (Stevens-Johnson syn- drome), acute generalized exanthematous pustulosis: Oculomucocutaneous syndrome and acute generalized exanthe- matous pustulosis may occur. Patients should be carefully moni- tored. If any abnormalities are observed, appropriate measures should be taken.
[Under New instructions] 11. ADVERSE REAC- TIONS 11.1 Clinically Significant Adverse Reactions	Oculomucocutaneous syndrome (Stevens-Johnson syn- drome) <u>, acute generalised examthematous pustulosis</u>
Reference information	Number of adverse reactions (for which a causal relationship with the product could not be ruled out) reported during the previous ap- proximately 35-month period (April 2015 to February 2019). Cases involving acute generalized exanthematous pustulosis: 1 (no patient mortality)
	Number of patients using the drug as estimated by the MAH during the previous 1-year period: approximately 50 000 000.
	Japanese market launch: September 1972

Case summary

- 1	Patient Daily dos									
	Sex/ Age	Reason f (complication)		Treatm durati			Clinical c	ourse a	nd therapeutic me	asures
	Female	Influenza		0.5 m	۱L	Acute generalized exanthematous pustulosis				sis
	90s	munizatio (type 2	on	Onc	е	Date of va	ccination		oatient received in upper left arm).	fluenza HA vac-
		tes melliti pertensio uterine le oma, cancer)	n,			2 days after cination	er vac-	inject tient with f topica tamic	batient experience ion site and system was treated by a v exofenadine hydro al betamethasone in sulfate, and a d ger Neo-Minophag	mic rash. The pa isiting physician ochloride 120 m valerate and ge rip infusion of
						8 days afte	er vac-	perat Derm to Ho ted to At ho and n scatte ties (tion a WBC mg/dl The p sone	batient had a fever ure in the 38 degr latology clinic A re spital B, and the p the hospital on the spitalization, eder niliary pustule acc ered around the tr especially around t the upper left arr 2 0230/µL, Neut: batient was started diacetate TID and ochloride 40 mg.	ees Celsius rang ferred the patien patient was adm he same day. Inatous erythema umulations were unk and extremi the site of vacci m). 85.1%, CRP: 1
						cination 080/µL and 84. Diflorasone dia difluprednate.		and Neut were in IL and 84.6%, res asone diacetate w rednate. rash gradually sub	pectively. as switched to	
					16 days af cination	ter vac-	WBC mg/d	: 6 320/µL, Neut:	70.5%, CRP: 1.3	
						17 days af cination	ter vac-		patient was discha	
	Laborate	ory Examii	nation							
				s after nation		days after accination	13 days vaccina		23 days after vaccination	28 days after vaccination
	CRP (mg/dL)		10	0.3		11.6	6.9		0.1	-
	WBC (/µL)			230	16 240		15 49		4 880	-
	Neut (/µL)			190	14 240		12 55		2 670	-
	Lym (/µL)		18	330		1 080	2 02	0	1 830	- De - ¹⁴¹
	DLST			-		-			-	Positive

broxol hydrochloride

4

Revision of Precautions (No.303)

This section presents details of revisions to the Precautions of package inserts and brand names of drugs that have been revised in accordance with the Notifications dated May 9, 2019.

Hormones-miscellaneous

Dulaglutide (genetical recombination)

Branded name [Under Old instructions] Adverse Reactions (Clinically Significant Adverse Reactions) Trulicity Subcutaneous Injection 0.75 mg Ateos (Eli Lilly Japan K.K.)

Severe diarrhoea, vomiting:

Severe diarrhoea, vomiting

Cases with severe diarrhoea and vomiting have also been reported that subsequently caused dehydration, leading to acute kidney injury.

Cases with severe diarrhoea and vomiting have also been reported

that subsequently caused dehydration, leading to acute kidney injury.

[Under New instructions]

11. ADVERSE REAC-TIONS 11.1 Clinically Significant Adverse Reactions

2 Antidiabetic agents

a. Ipragliflozin L-proline

b. Tofogliflozin hydrate

Branded name

a. Suglat Tablets 25 mg, 50 mg (Astellas Pharma Inc.

and perineum (Fournier's gangrene), sepsis:

b. Apleway Tablets 20 mg (Sanofi K.K.), Deberza Tablets 20 mg (Kowa Company, Ltd.)

Urinary tract infection <u>and genital infection</u> may occur, which may lead to serious infections such as pyelonephritis<u>. necrotising</u> <u>fasciitis of the external genitalia and perineum (Fournier's gangrene)</u>, and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. **Pyelonephritis**, **necrotising fasciitis of the external genitalia**

[Under Old instructions] Important Precautions

Adverse reactions (Clinically Significant Adverse Reactions)

[Under New instructions] 8. IMPORTANT PRE-CAUTIONS

be discontinued, and appropriate measures should be taken. Urinary tract infection <u>and genital infection</u> may occur, which may lead to serious infections such as pyelonephritis, <u>necrotising</u>

Pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock). Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should

fasciitis of the external genitalia and perineum (Fournier's gan-

<u>grene)</u>, and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. **Pyelonephritis, necrotising fasciitis of the external genitalia**

11. ADVERSE REAC-TIONS 11.1 Clinically Significant Adverse Reactions

3

Antidiabetic agents Empagliflozin

Branded name [Under Old instructions] Important Precautions

Adverse reactions (Clinically Significant Adverse Reactions)

[Under New instructions] 8. IMPORTANT PRE-CAUTIONS

11. ADVERSE REAC-TIONS 11.1 Clinically Significant Adverse Reactions

Pyelonephritis, necrotising fasciitis of the external genitalia and per-

ineum (Fournier's gangrene) may occur, which may lead to sepsis

Jardiance Tablets 10 mg, 25 mg (Boehringer Ingelheim Japan, Inc.)

Urinary tract infection and genital infection may occur, which may lead to serious infections such as pyelonephritis, <u>necrotising</u> <u>fasciitis of the external genitalia and perineum (Fournier's gangrene)</u>, and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. **Pyelonephritis**, <u>necrotising fasciitis of the external genitalia</u>

and perineum (Fournier's gangrene), sepsis:

and perineum (Fournier's gangrene), sepsis

(including septic shock).

Pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock). Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should be discontinued, and appropriate measures should be taken.

Urinary tract infection <u>and genital infection</u> may occur, which may lead to serious infections such as pyelonephritis<u>, necrotising</u> <u>fasciitis of the external genitalia and perineum (Fournier's gangrene)</u>, and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. **Pyelonephritis**, <u>necrotising fasciitis of the external genitalia</u> <u>and perineum (Fournier's gangrene)</u>, sepsis

Pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock). 4

Antidiabetic agents Empagliflozin/linagliptin

Branded name

Tradiance Combination Tablets AP, BP (Boehringer Ingelheim Japan, Inc.)

[Under Old instructions] Important Precautions

Urinary tract infection <u>and genital infection</u> may occur by administration of empagliflozin, an ingredient of this drug, which may lead to serious infections such as pyelonephritis<u>, necrotising fasciitis of</u> <u>the external genitalia and perineum (Fournier's gangrene)</u>, and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients.

Pyelonephritis, <u>necrotising fasciitis of the external genitalia</u> <u>and perineum (Fournier's gangrene),</u> sepsis:

Pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock). Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should be discontinued, and appropriate measures should be taken.

Antidiabetic agents

Adverse reactions (Clinically Significant

Adverse Reactions)

Canagliflozin hydrate

Branded name Canaglu Tablets 100 mg (Mitsubishi Tanabe Pharma Corporation) [Under Old instructions] Urinary tract infection and genital infection may occur, which may Important Precautions lead to serious infections such as pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene), and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. Pyelonephritis, necrotising fasciitis of the external genitalia Adverse reactions and perineum (Fournier's gangrene), sepsis: (Clinically Significant **Adverse Reactions)** Pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock). Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should be discontinued, and appropriate measures should be taken. [Under New instructions] 8. IMPORTANT PRE-Urinary tract infection and genital infection may occur, which may CAUTIONS lead to serious infections such as pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene), and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. **11. ADVERSE REAC-**Pyelonephritis, necrotising fasciitis of the external genitalia TIONS and perineum (Fournier's gangrene), sepsis

11.1 Clinically Significant Adverse Reactions Pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock).

6 Antidiabetic agents

Branded name

Sitagliptin phosphate hydrate/ipragliflozin L-proline

Sujanu Combination Tablets (MSD K.K.)

[Under Old instructions] **Important Precautions** Urinary tract infection and genital infection may occur by administration of ipragliflozin, which may lead to serious infections such as pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene), and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. Pyelonephritis, necrotising fasciitis of the external genitalia Adverse reactions and perineum (Fournier's gangrene), sepsis: (Clinically Significant **Adverse Reactions)** Pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock). Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should be discontinued, and appropriate measures should be taken. [Under New instructions] Urinary tract infection and genital infection may occur by ipragli-8. IMPORTANT PRE-CAUTIONS flozin, which may lead to serious infections such as pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene), and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. Pyelonephritis, necrotising fasciitis of the external genitalia **11. ADVERSE REAC-**TIONS and perineum (Fournier's gangrene), sepsis 11.1 Clinically Signifi-Pyelonephritis, necrotising fasciitis of the external genitalia and percant Adverse Reactions ineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock).

Antidiabetic agents Dapagliflozin propylene glycolate hydrate

7

Branded name [Under Old instructions]	Forxiga Tablets 5 mg, 10 mg (AstraZeneca K.K.)
Important Precautions	Urinary tract infection and genital infection may occur, which may lead to serious infections such as pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gan- grene), and sepsis. Patients should be carefully monitored for uri- nary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as tem- porary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients.
Adverse reactions	Pyelonephritis, <u>necrotising fasciitis of the external genitalia</u>
(Clinically Significant	and perineum (Fournier's gangrene), sepsis:
Adverse Reactions)	Pyelonephritis, necrotising fasciitis of the external genitalia and peri- neum (Fournier's gangrene) may occur, which may lead to sepsis (in- cluding septic shock). Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should be dis- continued, and appropriate measures should be taken.
[Under New instructions]	
8. IMPORTANT PRE- CAUTIONS	Urinary tract infection <u>and genital infection</u> may occur, which may lead to serious infections such as pyelonephritis, <u>necrotising</u> <u>fasciitis of the external genitalia and perineum</u> (Fournier's gan- <u>grene)</u> , and sepsis. Symptoms and management of urinary tract in- fection and genital infection should be explained to patients.
11. ADVERSE REAC-	Pyelonephritis, <u>necrotising fasciitis of the external genitalia</u>
TIONS	and perineum (Fournier's gangrene), sepsis
11.1 Clinically Signifi- cant Adverse Reactions	Pyelonephritis <u>and necrotising fasciitis of the external genitalia and</u> <u>perineum (Fournier's gangrene)</u> may occur, which may lead to sepsis (including septic shock).
8 Antidiabetic agents Teneligliptin h	ydrobromide hydrate/canagliflozin hydrate
Branded name	Canalia Combination Tablets (Mitsubishi Tanabe Pharma Corpora- tion)
[Under Old instructions]	
Important Precautions Adverse reactions (Clinically Significant Adverse Reactions)	Urinary tract infection <u>and genital infection</u> may occur by admin- istration of canagliflozin, an active ingredient of this drug, which may lead to serious infections such as pyelonephritis, <u>necrotising</u> <u>fasciitis of the external genitalia and perineum (Fournier's gan- grene)</u> , and sepsis. Patients should be carefully monitored for uri- nary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as tem- porary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. Pyelonephritis , <u>necrotising fasciitis of the external genitalia</u> <u>and perineum (Fournier's gangrene)</u> , sepsis: Pyelonephritis, <u>necrotising fasciitis of the external genitalia</u> and peri-
	<u>neum (Fournier's gangrene)</u> may occur, which may lead to sepsis (in- cluding septic shock). Patients should be carefully monitored. If any abnormalities are observed, appropriate measures should be taken such as discontinuation of administration.
[Under New instructions]	

Urinary tract infection and genital infection may occur by admin-8. IMPORTANT PREistration of canagliflozin, an active ingredient of this drug, which CAUTIONS may lead to serious infections such as pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene), and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. Pyelonephritis, necrotising fasciitis of the external genitalia **11. ADVERSE REAC-**TIONS and perineum (Fournier's gangrene), sepsis Pyelonephritis, necrotising fasciitis of the external genitalia and per-11.1 Clinically Significant Adverse Reactions ineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock). Antidiabetic agents 0 Luseogliflozin hydrate Lusefi tab. 2.5 mg, 5 mg (Taisho Pharmaceutical Co., Ltd.) **Branded name** [Under Old instructions] **Important Precautions** Urinary tract infection and genital infection may occur, which may lead to serious infections such as pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene), and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. Adverse reactions Pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene), sepsis: (Clinically Significant Pyelonephritis, necrotising fasciitis of the external genitalia and peri-**Adverse Reactions)** neum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock). Patients should be carefully monitored. If any abnormalities are observed, administration of this drug should be discontinued, and appropriate measures should be taken. [Under New instructions] 8. IMPORTANT PRE-Urinary tract infection and genital infection may occur, which may CAUTIONS lead to serious infections such as pyelonephritis, necrotising fasciitis of the external genitalia and perineum (Fournier's gangrene), and sepsis. Patients should be carefully monitored for urinary tract infection and genital infection. If such infections occur, appropriate measures should be taken, and measures such as temporary discontinuation of this drug should be considered based on the patient's condition. Symptoms and management of urinary tract infection and genital infection should be explained to patients. Pyelonephritis, necrotising fasciitis of the external genitalia **11. ADVERSE REAC-**TIONS and perineum (Fournier's gangrene), sepsis 11.1 Clinically Signifi-Pyelonephritis, necrotising fasciitis of the external genitalia and percant Adverse Reactions ineum (Fournier's gangrene) may occur, which may lead to sepsis (including septic shock).

10 Antineoplastics-miscellaneous

Nivolumab (genetical recombination)

Branded name	Opdivo Intravenous Infusion 20 mg, 100 mg, 240 mg (Ono Pharma- ceutical Co., Ltd.)				
[Under Old instructions]					
Adverse reactions (Clinically Significant Adverse Reactions)	Thyroid dysfunction, <u>pituitary impairment and adrenal disorder</u> may occur. <u>Endocrine</u> function test (measurement of TSH, free T3, free T4, <u>ACTH</u> , <u>blood cortisol</u> , etc.) should be performed prior to and pe- riodically during administration of this drug. <u>In addition, imaging as-</u> <u>sessment</u> , etc. should be considered to perform as well when re- <u>quired</u> . If any abnormalities are observed, appropriate measures should be taken. <u>Pituitary impairment</u> : <u>Pituitary impairment such as hypophysitis, hypopituitarism, and</u> <u>adrenocorticotropic hormone deficiency may occur. Patients should</u> <u>be carefully monitored</u> . If any abnormalities are observed, appropri-				
	ate measures such as discontinuation of administration should be				
	taken.				
Antineoplastics-miscella	neous				
Lenvatinib me	silate				
Branded name	Lenvima Capsules 4 mg, 10 mg (Eisai Co., Ltd.)				
[Under Old instructions]					
Adverse reactions	Interatitial lung diagona				
	Interstitial lung disease:				
(Clinically Significant					
Adverse Reactions)					
	drug should be discontinued and appropriate measures should be				
_	taken.				
12 Vaccines					
Influenza HA vaccine					
Branded name	Influenza HA Vaccine "Seiken" (Denka Seiken Co., Ltd.) Influenza HA Vaccine "KMB" (KM Biologics Co., Ltd.) Influenza HA Vaccine "Daiichi Sankyo" Syringe 0.25 mL and 0.5 mL, Influenza HA Vaccine "Daiichi Sankyo" 1 mL (Daiichi Sankyo Co., Ltd.) Flubik HA, and Flubik HA Syringe, Influenza HA Vaccine "Biken HA"				
	(The Research Foundation for Microbial Diseases of Osaka University)				
[Under Old instructions]	<i>,</i> ,				
Adverse reactions	Oculomucocutaneous syndrome (Stevens-Johnson syn-				
(Clinically Significant	drome), acute generalised examthematous pustulosis:				
	Oculomucocutaneous syndrome and acute generalised ex-				
Adverse Reactions)	<u>amthematous pustulosis</u> may occur. Patients should be carefully				

[Under New instructions] 11. ADVERSE REAC-TIONS 11.1 Clinically Significant Adverse Reactions

Oculomucocutaneous syndrome (Stevens-Johnson syndrome), acute generalised examthematous pustulosis

monitored. If any abnormalities are observed, appropriate

measures should be taken.

5

List of Products Subject to Early Post-marketing Phase Vigilance

Early Post-marketing Phase Vigilance (EPPV) was established in 2001. This unique system for newly-approved drug products refers to any safety assurance activities that are conducted within a period of 6 months just after marketing of a new drug. The MAH responsible for a new drug in the EPPV period is required to collect ADR 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.

	©: Products for	which EPPV was initiated	d after April 1, 20 <i>1</i>
_	Nonproprietary name Branded name on	Name of the MAH	Date of EPPV ini- tiate
0	Bictegravir sodium/emtricitabine/tenofovir ala- fenamide fumarate Biktarvy Combination Tablets	Gilead Sciences Inc.	April 8, 2019
	Tafamidis meglumine*1 Vyndaqel capsules 20 mg	Pfizer Japan Inc.	March 26, 2019
	Landiolol hydrochloride ^{*2} Onoact for Intravenous Infusion 50 mg, 150 mg	Ono Pharmaceutical Co., Ltd.	March 26, 2019
	Dupilumab (genetical recombination) * ³ Dupixent Subcutaneous Injection 300 mg Sy- ringe	Sanofi K.K.	March 26, 2019
	Dapagliflozin propylene glycolate hydrate*4 Forxiga Tablets 5 mg, 10 mg	AstraZeneca K.K.	March 26, 2019
	Nalmefene hydrochloride hydrate Selincro tablets 10 mg	Otsuka Pharmaceutical Co., Ltd	Match 5, 2019
	Romosozumab (genetical recombination) Evenity subcutaneous injection 105 mg syringe	Amgen Astellas Bi- Pharma K.K.	March 4, 2019
	Dacomitinib Hydrate Vizimpro Tablets 15 mg, 45 mg	Pfizer Japan Inc.	March 1, 2019
	Relugolix Relumina Tablets 40 mg	Takeda Pharmaceutical Company Limited.	March 1, 2019
	Lorazepam Lora-pita Intravenous Injection 2mg	Pfizer Japan Inc.	March 1, 2019
	Binimetinib Mektovi Tablets 15 mg	Ono Pharmaceutical Co., Ltd.	February 26, 2019
	Encorafenib Braftovi Capsules 50 mg	Ono Pharmaceutical Co., Ltd.	February 26, 2019
	Sofosbuvir/velpatasvir Epclusa Combination Tablets	Gilead Sciences Inc.	February 26, 2019
	Metirosine Demser Capsules 250 mg	Ono Pharmaceutical Co., Ltd.	February 26, 2019

(As of 30 April, 2019) ©: Products for which EPPV was initiated after April 1, 2019

Nonproprietary name		Date of EPPV ini-	
Branded name on	Name of the MAH	tiate	
Damoctocog alfa pegol (genetical recombina- tion) Jivi for i.v. injection 250, 500, 1000, 2000, 3000	Bayer Yakuhin Ltd	February 12, 2019	
Secukinumab (genetical recombination) *1 Cosentyx for s.c. injection 150 mg syringe	Novartis Pharma K.K.	December 21, 2018	
Ipragliflozin L–proline *2 Suglat Tablets 25 mg, 50 mg	Astellas Pharma Inc.	December 21 2018	
Dolutegravir sodium/rilpivirine hydrochloride Juluca Combination Tablets	Viiv Healthcare K.K.	December 20, 2018	
Gilteritinib fumarate Xospata Tablets 40 mg	Astellas Pharma Inc.	December 3, 2018	
Abemaciclib Verzenio Tablets 50 mg, 100 mg, 150 mg	Eli Lilly Japan K.K.	November 30, 2018	
Dexmedetomidine hydrochloride a. Precedex Intravenous Solution 200 μg [Pfizer], b. Precedex Intravenous Solution 200 μg/50 mL syringe [Pfizer], c. Precedex Intravenous Solution 200 μg [Maruishi], d. Precedex Intravenous Solution 200 μg/50 mL syringe [Maruishi]	a, b Pfizer Japan Inc. c, d Maruishi Pharma- ceutical Co., Ltd.	November 29, 2018	
Macrogol 4000/sodium chloride/sodium bicar- bonate/potassium chloride Movicol Combination Powder	EA Pharma Co., Ltd.	November 29, 2018	
Omidenepag isopropyl Eybelis Ophthalmic Solution 0.002%	Santen Pharmaceutical Co., Ltd.	November 27, 2018	
Vibegron Beova Tablets 50 mg	Kyorin Pharmaceutical Co.,Ltd.	November 27, 2018	
Blinatumomab (genetical recombination) Blincyto I.V. Infusion 35 µg	Amgen Astellas Bi- Pharma K.K.	November 27, 2018	
Lorlatinib Lorbrena Tablets 25 mg, 100 mg	Pfizer Japan Inc.	November 20, 2018	
Icatibant acetate Firazyr subcutaneous injection 30 mg syringe	Shire Japan KK	November 20, 2018	
Vedolizumab (genetical recombination) Entyvio for I.V. Infusion 300 mg	Takeda Pharmaceutical Company Limited.	November 7, 2018	
Nonacog beta pegol (genetical recombination) Refixia I.V. Injection 500, 1000, 2000	Novo Nordisk Pharma Ltd.	November 1, 2018	

*1 Transthyretin cardiac amyloidosis (wild type and mutant type)

*2 The following life-threatening arrhythmias when they are refractory and time-critical Ventricular fibrillation, ventricular tachycardia accompanied by haemodynamic instability

*3 Bronchial asthma (only for sever or refractory cases whose symptoms are not adequately controlled with existing treatments)

*4 Type 1 diabetes mellitus

*5 Ankylosing spondylitis that does not adequately respond to existing treatments