# Pharmaceuticals and Medical Devices Safety Information

## No. 311 March 2014

rev.1

	Table of Contents	
1.	Revised Adverse Reaction Reporting System for Quasi-drugs and Cosmetics4	
2.	Important Safety Information7	
	1 Salazosulfapyridine	
3.	Revision of Precautions (No. 254)18	
	Mianserin Hydrochloride (and 5 others)18	
4.	List of Products Subject to Early Post-marketing Phase Vigilance20	

This *Pharmaceuticals and Medical Devices Safety Information (PMDSI)* is issued based on 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 (<a href="http://www.pmda.go.jp/english/index.html">http://www.pmda.go.jp/english/index.html</a>) and on the MHLW website (<a href="http://www.mhlw.go.jp/">http://www.mhlw.go.jp/</a>, only available in Japanese language).

## Published by Ministry of Health, Labour and Welfare



Pharmaceutical and Food Safety Bureau, Ministry of Health, Labour and Welfare 1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo 100-8916 Japan Translated by

Pharmaceuticals and Medical Devices Agency



Office of Safety I, Pharmaceuticals and Medical Devices Agency 3-3-2 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 Japan

E-mail: safety.info@pmda.go.jp

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.

<sup>\*</sup>Correction to the list in "4. List of Products Subject to Early Post-marketing Phase Vigilance."

## Pharmaceuticals and Medical Devices Safety Information

No. 311 March 2014

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

### [ Outline of Information ]

No.	Subject	Measures	Outline of Information	Page
1	Revised Adverse Reaction Reporting System for Quasi-drugs and Cosmetics		The marketing authorization holders of quasidrugs and cosmetics have reported research reports to the PMDA via an adverse reaction reporting system until now. From April 1, 2014, the system will be improved to receive individual case safety reports of quasi-drugs and cosmetics too, so that the MHLW/PMDA can identify hazardous health effects. This change follows recent cases of skin disorders from the use of cosmetics or quasi-drugs in Japan. A summary of the revised system is presented in this section.	4
2	Important Safety Information	P C	Salazosulfapyridine (and 3 others): Regarding the revision of the Precautions section of package inserts of drugs in accordance with the Notification dated February 18, 2014, the contents of important revisions and case summaries that served as the basis for these revisions are provided in this section.	7
3	Revision of Precautions (No. 254)		Mianserin Hydrochloride (and 5 others)	18
4	List of Products Subject to Early Post- marketing Phase Vigilance		Lists products subject to Early Post-marketing Phase Vigilance as of March 1, 2014.	20

D: Distribution of Dear Healthcare Professional Letters P: Revision of Precautions C: Case Reports

### PMDA medi-navi

#### (Pharmaceuticals and Medical Devices Information E-mail Alert Service)

The PMDA is providing the "PMDA medi-navi" a Pharmaceuticals and Medical Devices Information E-mail Alert Service (only available in Japanese language), when important safety information regarding pharmaceuticals and medical devices including Dear Healthcare Professional Letters or Revision of Precautions is issued. This e-mail service will enable you to obtain safety information faster and more efficiently, free of charge. Please feel free to use this service for your faster information collection.

See our website for details of the service. → <a href="http://www.info.pmda.go.jp/info/idx-push.html">http://www.info.pmda.go.jp/info/idx-push.html</a>

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

If medical and pharmaceutical providers such as physicians, dentists, and pharmacists detect adverse reactions, infections associated with drugs or medical devices, or medical device adverse events, 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 medical and pharmaceutical providers, drugstore and pharmacy personnel are also required to report safety issues related to drugs and medical devices.

## **Abbreviations**

ADAMTS13	A disintegrin-like and metalloproteinase with thrombospondin type 1 motifs 13			
ADRs	Adverse drug reactions			
Alb	Albumin			
ALP	Alkaline phosphatase			
ALT (GPT)	Alanine aminotransferase (Glutamate pyruvate transaminase)			
AST (GOT)	Aspartate aminotransferase (Glutamate oxaloacetate transaminase)			
BUN	Blood urea nitrogen			
CAPD	Continuous ambulatory peritoneal dialysis			
Cr	Creatinine			
CRP	C-reactive protein			
CT	Computed tomography			
ECOG PS	Eastern Cooperative Oncology Group Performance status			
EPPV	Early Post-marketing Phase Vigilance			
FDP	Fibrin/fibrinogen degradation product			
FIB	Fibrinogen			
GVP	Good Vigilance Practice			
Hb	Haemoglobin			
HUS	Haemolytic uraemic syndrome			
IgE	Immunoglobulin E			
IU	International unit			
JCS	Japan Coma Scale			
LDH	Lactate dehydrogenase			
MAH	Marketing authorization holder			
MHLW	Ministry of Health, Labour and Welfare			
PLT	Platelet			
PMDA	Pharmaceuticals and Medical Devices Agency			
PMDSI	Pharmaceuticals and Medical Devices Safety Information			
PT	Prothrombin Time			
RBC	Red blood cell count			
ST	Sulfamethoxazole/Trimethoprim			
T-Bil	Total bilirubin			
TTP	Thrombotic thrombocytopenic purpura			
VW	von Willebrand			
WBC	White blood cell count			
γ-GTP	gamma-glutamyl transpeptidase			

1

## Revised Adverse Reaction Reporting System for Quasi-drugs and Cosmetics

#### 1. Introduction

Recently, cases of adverse reactions caused by medicinal cosmetics (quasi-drugs), that were not expected before marketing, such as skin disorders (leukoderma), have reported, and therefore it is necessary to enhance the post-marketing safety measures for quasi-drugs and cosmetics (hereinafter referred to as "cosmetics, etc.") to identify adverse health effects early and take measures.

As one such measure, the adverse reaction reporting system for cosmetics, etc., from marketing authorization holders (MAHs) to the regulatory authorities is enhanced to receive individual case safety reports as well as research reports that have been required to be reported. The revised system has been enforced on April 1, 2014 and a summary of the revised system is presented.

## 2. Revised adverse reaction reporting system for quasi-drugs and cosmetics

When MAHs of drugs, quasi-drugs, cosmetics, and medical devices become aware of any occurrence of adverse reactions/malfunctions caused by their products or research reports, it is mandatory for such MAHs to report them to the MHLW in accordance with the Pharmaceutical Affairs Law Article 77-4-2, Paragraph 1. The scope of reportable information is defined in the Enforcement Ordinance of Pharmaceutical Affairs Law. As shown in **Table 1**, reportable information for cosmetics, etc., was limited to research reports compared to that for drugs and medical devices.

Meanwhile, given the fact that cases of significant adverse reactions caused by medicinal cosmetics, etc., have been reported in recent years, it was determined to revise the Enforcement Ordinance of Pharmaceutical Affairs Law to require reporting of individual cases for any serious adverse reactions caused by cosmetics, etc., as with drugs, in order to identify any similar cases early and immediately take necessary measures if such cases occur in the future (shaded parts in **Table 1**).

Table 1. Description of safety information that MAHs should report (time frame for reporting is shown in brackets)

	Serious adverse	reaction reports	Unknown/	Report of safety	Research
	Death or unknown	Known	non-serious reports	measures taken in overseas	reports
Drugs, medical devices	Yes (Within 15 days)	Yes (Within 30 days)	Yes (Annual periodic report)	Yes (Within 15 days)	Yes (Within 30 days)
Quasi-drugs, cosmetics	Changed from no to yes* (within 15 days)	Changed from no to yes* (within 30 days)	No	No	Yes (Within 30 days)

<sup>\*</sup>Including cases that require at least 30 days for treatment as well as serious adverse reactions

As with drugs, for cosmetics, etc., whether or not individual cases are reportable are determined by the seriousness criteria of the cases based on International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use guidelines. Cases that meet

seriousness criteria 1 to 7 in **Table 2** are defined as reportable adverse reactions.

In addition, because cosmetics, etc., have mild effects and are usually used in healthy individuals, it is necessary to collect a wider range of adverse reactions than those for drugs from the viewpoint of risk-benefit balance. Therefore, it was determined only for cosmetics, etc., to include "Cases that require at least 30 days for treatment" (seriousness criteria 8 in **Table 2**), as well as serious adverse reactions, in the scope of individual case reporting.

Table 2 Adverse reactions caused by quasi-drugs and cosmetics that require individual reporting

1. Death
2. Disability
3. Events that may result in death
4. Events that may result in disability
5. Requiring hospital admission or prolonged hospitalization for treatment
6. severe events corresponding to those shown above
7. Congenital disease or anomaly in next generations
8. Cases that require at least 30 days for treatment

Article 7 of the Ministerial Ordinance on Good Vigilance Practice (GVP) for drugs, quasi-drugs, cosmetics, and medical devices (GVP Ordinance) stipulates the obligation of MAHs to collect safety management information and its scope. In connection with the enhancement of adverse reaction reporting system, the scope of information that MAHs of cosmetics, etc., are required to collect was also revised to include information from healthcare professionals and government agencies, as with MAHs of drugs, ,as shown in **Table 3.** The GVP Ordinance has been enforced on April 1, 2014.

Table 3 Scope of safety management information that MAHs of cosmetics, etc., are required to collect

	Before revision		After revision
		I	Information from healthcare professionals
I	Information related to academic society reports, literature reports, and other research reports	II	Information related to academic society reports, literature reports, and other research reports
		III	Information from the MHLW and other
			government agencies, prefectural and city
			governments, and PMDA
		IV	Information from governments and corporations
			of other countries
		V	Information from other MAHs
II	Other safety management information	VI	Other safety management information

<sup>\*</sup>The underlined items are the safety management information that has been added.

## 3. Closing comments

The new adverse reaction reporting system for cosmetics, etc., was enforced on April 1, 2014. When any serious adverse reactions by quasi-drugs or cosmetics are suspected and any patients requiring a long-term treatment are noticed, healthcare professionals are encouraged to contact the applicable MAHs and cooperate with investigations to be conducted by the MAHs.

In addition, in the Drugs and Medical Devices Safety Information Reporting System, healthcare professionals have been encouraged to directly report to the MHLW adverse reactions caused by cosmetics, etc., as well as adverse reactions caused by drugs.

#### <References>

- "Adverse Reaction Reporting System for Quasi-drugs and Cosmetics (draft)," materials distributed at the second meeting of 2013 Committee on Drug Safety, November 27, 2013 <a href="http://www.mhlw.go.jp/stf/shingi/0000030756.html">http://www.mhlw.go.jp/stf/shingi/0000030756.html</a> (only available in Japanese language)
- 2) "Notification on Enforcement of the Ministerial Ordinance on Partial amendment of Pharmaceutical Affairs Law Enforcement Regulations and Good Vigilance Practice for drugs, quasi-drugs, cosmetics, and medical devices (reporting of adverse reactions etc. to quasi-drugs and cosmetics)," Pharmaceutical and Food Safety Bureau Notification dated February 27, 2014 http://www.info.pmda.go.jp/iyaku/file/h260227-001.pdf (only available in Japanese language)
- 3) For a detailed description of the Drugs and Medical Devices Safety Information Reporting System and to receive a Drug Safety Information Report Form, please refer to the Pharmaceuticals and Medical Devices Agency (PMDA) website shown below.

  Dear healthcare professionals (request for adverse reaction/infection/malfunction reporting)

  <a href="http://www.info.pmda.go.jp/info/houkoku.html">http://www.info.pmda.go.jp/info/houkoku.html</a> (only available in Japanese language)

2

## **Important Safety Information**

Regarding the revision of the Precautions section of package inserts of drugs in accordance with the Notification dated February 18, 2014, the contents of important revisions and case summaries that served as the basis for these revisions are provided in this section.

## 1 Salazosulfapyridine

Brand Name (name of company)	<ul> <li>(1) Salazopyrin Tablets 500 mg (Pfizer Japan Inc.) and the others</li> <li>(2) Salazopyrin Suppositories 500 mg (Pfizer Japan Inc.)</li> <li>(3) Azulfidine EN tablets 250 mg, 500 mg (Pfizer Inc.), and the others</li> </ul>	
Therapeutic Category	Sulfonamides	
	(1) Ulcerative colitis, regional enteritis, nonspecific colitis	
Indications	(2) Ulcerative colitis	
	(3) Rheumatoid arthritis	

### PRECAUTIONS (underlined parts are revised)

Adverse Reactions (clinically significant adverse reactions)

Reference Information Shock, anaphylaxis: Shock or anaphylaxis may occur. Patients should be carefully monitored, and if any abnormalities such as rash, decreased blood pressure, and/or dyspnoea are observed, administration of this drug should be discontinued and appropriate measures should be taken.

The number of reported adverse reactions (for which a causality to the drug could not be ruled out) for the past 3 years and 9 months (April 2010 to December 2013)

• Shock, anaphylaxis-associated cases: 1 case (no fatal cases)

The number of patients using this drug per year estimated by MAHs: Approximately 215,000 (June 2012 to May 2013)

Launched in Japan:

- (1) January 2009 (The product with an old brand name for this drug was launched in September 1969.)
- (2) January 2009 (The product with an old brand name for this drug was launched in June 1982.)
- (3) Azulfidine EN tablets 250 mg: August 2002 Azulfidine EN tablets 500 mg: June 2007 (The product with an old brand name for this drug was launched in December 1995.)

## **Case Summary**

	Summ	Patient	D. 11. 1. 1	Adverse reactions
No.	Sex/ Age	Reason for use (complications)	Daily dose/ Treatment duration	Clinical course and therapeutic measures
1	Female 40s	Adult onset Still's disease (None)	500 mg for 13 days ↓ Discontinued ↓ 250 mg for 1 day	Anaphylactic shock Day 1 of administration: The patient started receiving salazosulfapyridine 500 mg/day, celecoxib, teprenone, and famotidine. Day 13 of administration (day of discontinuation): Due to pyrexia and skin eruption, administration of salazosulfapyridine, celecoxib, teprenone, and famotidine was discontinued. Patch test; Positive for celecoxib, negative for salazosulfapyridine. Drug-induced lymphocyte stimulation test; Positive for celecoxib, negative for salazosulfapyridine.  13 days after discontinuation: Pyrexia and skin eruption disappeared. Administration of sodium rabeprazole and diclofenac sodium was started. Day 1 of readministration (day of onset/day of discontinuation of readministration): Several hours after taking salazosulfapyridine 250 mg in the morning, face oedema (particularly lips), pyrexia (38.3°C), erythema (limbs, trunk), and dyspnoea were noted and anaphylactic shock occurred. Systolic blood pressure was 70 mmHg level and oxygen saturation was 88% (room air). Administration of salazosulfapyridine and sodium rabeprazole was discontinued. The patient was admitted to hospital, and received subcutaneous injection of adrenaline 0.3 mg, drip infusion of physiological saline with the clamp wide open, drip infusion of methylprednisolone 500 mg, continuous intravenous infusion of noradrenaline, and oxygen. Blood pressure and other symptoms became stable.  5 days after discontinuation of readministration: As oedema, erythema, and pyrexia also disappeared, the patient was discharged from hospital. The patient recovered.
	Concom	itani medications	s. soutum rabepi	razole, celecoxib, teprenone, famotidine, diclofenac sodium

	Before start of administration	Day 13 of administration	Day 1 of readministration	1 day after discontinuation of readministration	3 days after discontinuation of readministration
WBC (/mm <sup>3</sup> )	4,300	3,700	5,500	17,500	6,900
Neutrophils (%)	59.0	72.3	92.7	85.0	66.0
Eosinophils (%)	1.0	0.3	0.2	0	1
IgE (IU/mL)	_	122	_	85.5	_
CRP (mg/dL)	1.00	1.32	1.86	5.82	1.73

## 2 Sulfamethoxazole/Trimethoprim

Brand Name (name of company)	(1) Baktar Combination Tablets, Baktar Combination Granules (Shionogi & Co., Ltd.), BACTRAMIN Combination Tablet, BACTRAMIN Combination Granule (Chugai Pharmaceutical Co., Ltd.), and the others (2) BACTRAMIN Injection (Chugai Pharmaceutical Co., Ltd.)
Therapeutic Category	<ul><li>(1) Chemotherapeutics-Miscellaneous</li><li>(2) Antiprotozoans</li></ul>
Indications	<ul> <li>(1) 1. General infection(s)</li> <li><applicable microorganisms=""> Sulfamethoxazole/trimethoprim (ST)-sensitive strains of Enterococcus, Escherichia coli, Shigella, Salmonella typhi, Salmonella paratyphi, Citrobacter, Klebsiella, Enterobacter, Proteus Morganella morganii, Providencia rettgeri, Haemophilus influenzae</applicable></li> <li><applicable conditions=""> Pneumonia, secondary infection of chronic respiratory lesions, complicated cystitis, pyelonephritis, infectious enteritis, typhoid, paratyphoid</applicable></li> <li>2. Treatment and prophylaxis of pneumocystis pneumonia</li> <li><applicable microorganisms=""> Pneumocystis pirovecii</applicable></li> <li><applicable conditions=""> Pneumocystis pneumonia, prophylaxis of Pneumocystis pneumonia</applicable></li> <li><applicable microorganisms=""> Pneumocystis carinii</applicable></li> <li><applicable conditions=""> Carinii pneumonia</applicable></li> </ul>

## PRECAUTIONS (underlined parts are revised)

Adverse Reactions (clinically significant adverse reactions)

Thrombotic thrombocytopenic purpura (TTP), haemolytic uraemic syndrome (HUS): TTP (major signs and symptoms; decreased platelets (PLTs), haemolytic anaemia with schizocytes, psychoneurotic symptoms, pyrexia, renal impairment) or HUS (major signs and symptoms; decreased PLTs, haemolytic anaemia with schizocyte, acute renal failure) may occur. Patients should be carefully monitored through blood tests (PLTs, red blood cells, etc.), renal function tests, etc., and if any abnormalities are observed, administration of this drug should be discontinued and appropriate measures such as plasma exchange should be taken.

### Reference Information

The number of reported adverse reactions (for which a causality to the drug could not be ruled out) for the past 3 years and 8 months (April 2010 to December 2013)

• TTP, HUS-associated cases: 2 cases (no fatal cases)

The number of patients using this drug per year estimated by MAHs:

Approximately 240,000 (2013)

Launched in Japan: Tablet: June 1976

Granules: September 1981

Injectable dosage form: December 1993

Case Summary
ST combination drugs that were administered to the patient were Baktar Combination Tablets and BACTRAMIN Injection.

mject	njection.						
		Patient	Daily dose/	Adverse reactions			
No.	Sex/ Age	Reason for use (complications)	Treatment duration	Clinical course and therapeutic measures			
1 1		use		TTP Body height, approximately 120 cm; body weight, approximately 30 kg 154 days before administration The patient started receiving peritoneal dialysis (continuous ambulatory peritoneal dialysis [CAPD]) for treatment of chronic renal failure. Day 1 of administration of combination tablets: The patient was admitted to hospital due to pneumonia. Based on computed tomography (CT), Pneumocystis jirovecii pneumonia was suspected, and administration of 2 tablets/day of ST combination tablets was started. Day 2 of administration: Intravenous infusion of prednisolone sodium succinate 80 mg/day was started. Day 4 of administration: Restlessness and irritability occurred. Because it was difficult to give oral medication, ST combination tablets was switched to ST injectable dosage form. Day 5 of administration (Day 1 of administration of injectable dosage form): For treatment of Pneumocystis jirovecii pneumonia, intravenous drip infusion of 2 ampoules/day of ST injectable dosage form was started. CAPD was ongoing. Day 7 of administration: The dose of prednisolone sodium succinate was reduced from 80 mg/day to 40 mg/day. Day 11 of administration: Administration of ST injectable dosage form was discontinued; Because oral administration became possible, the injectable dosage form was switched to the combination tablets on the next day. Day 12 of administration (day of readministration of combination tablets) (day of onset): For Pneumocystis jirovecii pneumonia, administration of 2 tablets/day of ST combination tablets was resumed. Administration was started with dose reduction from intravenous infusion of prednisolone sodium succinate 40 mg/day to oral administration of prednisolone 20 mg/day. Pyrexia in the 37°C level developed. TTP occurred. Day 13 of administration: White blood cell count (WBC) was elevated to the 15000/mm³ level. Day 19 of administration (day of discontinuation): Pyrexia of 39°C occurred. PLT count decreased to 5.3 × 10⁴/mm³. Administration of ST combination tablets was			
				discontinued.  1 day after discontinuation: WBC was 38310/mm <sup>3</sup> and haemoglobin (Hb) was 7.5 g/dL.			

ST combination tablets was switched to pentamidine isetionate.  3 days after discontinuation: Plasma exchange (first session) was started. Subsequently, the second session was performed 4 days after discontinuation, the third session 6 days after, the fourth session 8 days after, and the fifth session 10 days after. Each session was performed with 30 units of fresh frozen plasma preparation.
27 days after discontinuation: After that, PLT count and red blood cell increased gradually. The patient recovered from TTP.

Concomitant medications: azithromycin hydrate, ceftriaxone sodium hydrate, prednisolone sodium succinate, prednisolone, olanzapine, lansoprazole

	5 days before administ ration	Day 1 of administ ration	Day 4 of administ ration	Day 5 of administ ration	Day 11 of administ ration	Day 13 of administ ration	Day of discontin uation	1 day after discontin uation	2 days after discontin uation	3 days after discontin uation	4 days after discontin uation	8 days after discontin uation	22 days after discontin uation	27 days after discontin uation
WBC (/mm³)	4,380	6,230	4,090	2,610	9,340	15,450	13,240	38,310	25,290	21,030	12,920	9,710	5,860	8,950
RBC (× 10 <sup>4</sup> /mm <sup>3</sup> )	248	237	271	283	297	291	302	262	267	230	270	259	297	309
Hb (g/dL)	7.2	6.7	7.9	8.1	8.5	8.2	8.6	7.5	7.5	6.5	7.8	7.8	8.6	9.1
Plt (× 10 <sup>4</sup> /mm <sup>3</sup> )	17.7	14.5	18.0	19.6	15.9	18.0	5.3	5.8	4.5	3.1	2.9	5.7	9.1	16.9
Fragmented cells	(+)	(+)	(+)	(+)	(±)	(±)	-	(±)	(+)	(+)	(±)	-	(±)	_
Total Bil (mg/dL)	0.6	0.4	0.2	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.3	0.6	_	_
LDH (IU)	353	548	383	373	418	433	1,019	1,359	1,365	1,119	459	284	426	620
BUN (mg/dL)	79.4	83.8	87.5	87.0	38.7	48.0	72.4	71.1	80.4	72.0	67.5	73.1	59.8	75.0
Serum Cr (mg/dL)	5.37	5.96	5.83	6.07	4.44	4.44	4.45	4.59	5.01	4.77	4.14	4.36	4.46	3.77
CRP (mg/dL)	6.61	5.21	2.24	1.41	0.69	0.74	4.67	22.28	20.44	15.88	2.43	0.37	2.25	1.67
FIB (mg/dL)	ı	1	337	1	ı	ı	360	333	265	262	ı	230	1	242
FDP (μg/mL)	_	_	4.1	_	_	_	61.9	88.3	42.5	32.2	_	16.8	42.6	13.1
D-dimer (µg/mL)	-	-	1.63	_	-	-	34.50	55.67	23.50	20.99	-	11.69	23.83	9.50
VW factor activity (%)	-	-	-	_	-	-	-	-	_	418	177	-	301	_
ADAMTS13 activity (%)	_	_	_	_	_	_	_	_	_	33	_	_	_	_

## 3 Felbinac (for ethical use)

Brand Name (name of company)	<ol> <li>(1) SELTOUCH Pap 70, 140, SELTOUCH Tape 70 (Teikoku Seiyaku Co., Ltd.), and the others</li> <li>(2) NAPAGELN OINTMENT 3%, NAPAGELN CREAM 3%, NAPAGELN LOTION 3% (Pfizer Japan Inc.), and the others</li> </ol>				
Therapeutic Category	Analgesics, antipruritic, astringents, anti-inflammatory agents				
Indications	<ol> <li>(1) Relief of pain and inflammation associated with the following disorders and symptoms:         Osteoarthritis, periarthritis scapulohumeralis, tendonitis, and tenosynovitis, peritendinitis, humeral epicondylitis (e.g. tennis elbow), myalgia, post-traumatic swelling, and pain</li> <li>(2) Relief of pain and inflammation associated with the following disorders and symptoms:         Osteoarthritis, myofascial low back pain, periarthritis scapulohumeralis, tendonitis and tenosynovitis, peritendinitis, humeral epicondylitis (e.g. tennis elbow), myalgia, post-traumatic swelling, and pain</li> </ol>				

### PRECAUTIONS (underlined parts are revised)

Adverse Reactions (clinically significant adverse reactions) Shock, anaphylaxis: Shock or anaphylaxis (urticaria, angioedema, dyspnoea, etc.) may occur. Patients should be carefully monitored, and if any abnormalities are observed, administration of this drug should be discontinued and appropriate measures should be taken.

Reference Information The number of reported adverse reactions (for which a causality to the drug could not be ruled out) for the past 3 years and 8 months (April 2010 to November 2013)

• Shock, anaphylaxis-associated cases: 3 cases (no fatal cases)

The number of patients using this drug per year estimated by MAHs:

Approximately 6.46 million (2013)

Launched in Japan:

(1) SELTOUCH Pap 70: June 2008 (The product with an old brand name for this drug was launched in September 1993.)

SELTOUCH Pap 140: October 2007 SELTOUCH Tape 70: February 2011

(2) NAPAGELN OINTMENT 3%: June 2008 (The product with old brand name for this drug was launched in November 1986.)

NAPAGELN CREAM 3%: June 2008 (The product with old brand name for this drug was launched in September 1999.)

NAPAGELN LOTION 3%: June 2008 (The product with old brand name for this drug was launched in June 1990.)

#### < Case Summary >

Felbinac (tape)

		Patient	Daily	Adverse reactions
No.	Sex/ Age	Reason for use (complications)	dose/ Treatment duration	Clinical course and therapeutic measures
1	Female	Intervertebral	70 mg	Distressed feeling of chest (anaphylactoid reaction)
	30s	disc	for 4	Before administration:
		herniation	days	Symptoms of schizophrenia remitted.
		(none)		Symptoms of cervical disc herniation improved but
				numbness of the left hand remained.
				Day 1 of administration:
				Felbinac was used for the neck (for approximately 12 hours).

After the start, a tingling sensation occurred, but it disappeared after approximately 20 minutes. Day 2 of administration: The same symptom as above occurred. Felbinac was used for approximately 12 hours similarly. Day 3 of administration (day of onset): After several minutes of use, difficulty in breathing occurred, but the patient thought it was just her imagination and used felbinac for approximately 12 hours. Difficulty in breathing persisted. Day 4 of administration (Day 2 of onset) (day of discontinuation): After several minutes of use, difficulty in breathing occurred more severely than the preceding day. Anaphylactoid symptom was suspected, discontinuation of felbinac was instructed. The symptom promptly disappeared after discontinuation. After that, felbinac was not used and the same symptom did not occur. Concomitant medications: aripiprazole, risperidone, afloqualone, loxoprofen sodium hydrate, mecobalamin, rebamipide, alprazolam, bromazepam

## 4 Regorafenib Hydrate

Stivarga tablets 40 mg (Bayer Yakuhin, Ltd.)			
Antineoplastics-Miscellaneous			
Incurable, unresectable, advanced/recurrent colorectal cancer Gastrointestinal stromal tumor that has progressed after chemotherapy			

## PRECAUTIONS (underlined parts are revised)

### Warnings

Serious hepatic dysfunction may occur and some cases of <u>fulminant hepatitis or</u> hepatic failure leading to fatal outcome have been reported. Patients should be carefully monitored through periodic liver function tests before and during administration of this drug.

## Important Precautions

Hepatic dysfunction or jaundice with marked elevations of aspartate aminotransferase (AST or glutamate oxaloacetate transaminase [GOT]) or alanine aminotransferase (ALT or glutamate pyruvate transaminase [GPT]) may occur and some cases of <u>fulminant hepatitis or</u> hepatic failure leading to fatal outcome have been reported. Patients should be carefully monitored through periodic liver function tests, etc., before and during administration of this drug. If any abnormalities are observed, appropriate measures such as dose reduction, drug suspension, or discontinuation of administration should be taken.

## Adverse Reactions (clinically significant adverse reactions)

<u>Fulminant hepatitis</u>, hepatic failure, hepatic dysfunction, jaundice: Hepatic dysfunction or jaundice with marked elevations of AST (GOT) or ALT (GPT) may occur and some cases of <u>fulminant hepatitis or</u> hepatic failure leading to fatal outcome have been reported. Patients should be carefully monitored during administration of this drug, and if any abnormalities are observed, the dose of this drug should be reduced or administration of this drug should be suspended or discontinued, and appropriate measures should be taken.

Interstitial lung disease: Interstitial lung disease may occur. Patients should be carefully monitored for clinical symptoms such as cough, dyspnoea, and/or pyrexia. If any abnormalities are observed, examinations such as chest X-ray and/or chest CT should be performed. If interstitial lung disease is suspected, administration of this drug should be discontinued, and appropriate measures including administration of corticosteroid should be taken.

#### Reference Information

The number of reported adverse reactions (for which a causality to the drug could not be ruled out) for the past 8 months (from initial marketing to January 2014)

- Fulminant hepatitis-associated cases: 2 cases (both are fatal)
- Interstitial lung disease-associated cases: 5 cases (including 2 fatal cases)

The number of patients using this drug per year estimated by MAHs:

Approximately 2,600 (2013) Launched in Japan: May 2013

#### Case Summaries

	I (an I (complications) I		Daily	Adverse reactions		
No.			dose/ Treatment duration	Clinical course and therapeutic measures		
1	Female	Colon cancer	160 mg	Liver disorder		
	30s	(metastases to	for 21	Day 1 of administration:		
	liver,		days	The patient started receiving regorafenib hydrate		
	haemorrhagic		(3-week	(160 mg/day). Eastern Cooperative Oncology Group		
		gastritis,	treatment	performance status (ECOG-PS) immediately before the		

sm	oker, alcohol	followed	start of administration was 0.
cor	nsumption)	by 1-	Day 8 of administration:
		week	Paronychia and anorexia occurred.
		rest	Day 22 of administration (day of discontinuation)
		period)	(day of onset):
			After 3-week administration of regorafenib hydrate, liver
			disorder and hand and foot syndrome occurred. AST was
			169 IU/L and ALT was 131 IU/L. Malaise was not found,
			and anorexia was mild. Administration of regorafenib
			hydrate was discontinued.
			8 days after discontinuation:
			AST was 2683 IU/L, ALT was 2336 IU/L, and total
			bilirubin (T-Bil) was 10.2 mg/dL. Anorexia worsened, and
			malaise, pyrexia, and jaundice occurred. The patient was
			admitted to hospital. Intravenous infusion of
			glycyrrhizin/glycine/L-cysteine 60 mL, and oral
			administration of ursodeoxycholic acid 600 mg and
			lactulose syrup 65% 60 mL were started (for 8 days).
			Hand and foot syndrome improved, and paronychia resolved.
,			11 days after discontinuation: The patient complained of sleepiness and malaise.
			Japan Coma Scale (JCS) was I.
			12 days after discontinuation:
			The patient was able to walk, but oral intake decreased.
			14 days after discontinuation:
			JCS worsened from II to III. NH <sub>3</sub> increased to 178 μg/dL.
			Amino acid preparation for hepatic failure 500 mL was
			intravenously infused. The patient was in a state of unrest.
			Unrest subsided with intravenous infusion of haloperidol
			10 mg (24h).
			15 days after discontinuation:
			The patient died of liver disorder.
Concomitant	medications: no	one	*

Parameter	Day 1 of administrat ion	Day 8 of administrat ion	Day 15 of administrat ion	Day 22 of administrat ion; Day of discontinu ation; Day of onset	8 days after discontinu ation	9 days after discontinu ation	10 days after discontinu ation	12 days after discontinu ation	14 days after discontinu ation
AST (IU/L)	21	43	28	169	2,683	1,929	1,608	1,106	585
ALT (IU/L)	14	46	21	131	2,336	1,881	1,492	988	673
LDH (IU/L)	334	477	480	572	1,306	671	598	543	608
ALP (IU/L)	245	447	410	487	578	512	509	516	556
γ-GTP (IU/L)	28	86	56	76	115	92	75	50	38
T-Bil (mg/dL)	0.5	0.9	0.7	1.2	10.2	11.5	13.1	16.2	18.9
D-Bil (mg/dL)	_	_	l		7.8	9.1	10.3	12.3	12.7
Alb (g/dL)	3.9	3.9	4.0	3.9	3.4	3.0	2.8	2.8	3.0
PT (%)	91	_		_	44	_	38	_	_
NH <sub>3</sub> (μg/dL)	_	_	_	_	41	_	_	_	178

## **Case Summaries**

	Se Summaries Patient Daily Adverse reactions								
	dose/		,	AUVELSE LEGETIONS					
No.	Sex/ Age	Reason for use (complications)	Treatment duration	Clinical course and therapeutic measures					
2	Male	Rectal cancer	160 mg	Interstitial lung disease					
	Male 60s Rectal cancer (metastases to lung, brain, and bone) (3-week treatment followed by 1-week rest period)		for 6 days (3-week treatment followed by 1- week rest	Interstitial lung disease  Day 1 of administration:  The patient started receiving regorafenib hydrate (160 mg/day). ECOG-PS immediately before the start of administration was 2.  Day 6 of administration (day of discontinuation) (day of onset):  A blood test showed an abnormally high level of C-reactive protein (CRP).  X-ray showed no marked change, but the patient was diagnosed with interstitial pneumonia based on CT.  The patient had no symptoms. Administration of regorafenib hydrate was discontinued, and steroid pulse therapy was started.  Administration of ceftriaxone sodium hydrate (2 g/day) was started.  3 days after discontinuation:  As the patient had respiratory failure, oxygen inhalation, and administration of prednisolone 50 mg were started.  8 days after discontinuation:  A plain X-ray showed diffuse ground glass opacities in bilateral lung fields.  The antibiotic agent was switched to tazobactam sodium/piperacillin sodium.  10 days after discontinuation:  The second steroid pulse therapy was started.  11 days after discontinuation:  CT showed ground glass opacities occupying almost all of					
				the lung fields except the lung metastatic lesions.					
				15 days after discontinuation: The patient died of interstitial pneumonia.					
	Chest X-ray: (day before administration) Bilateral multiple metastatic lung tumors were noted. (day of onset) There were almost no changes from the state in the preceding session. (8 days after discontinuation) Diffuse ground glass opacities were found in bilateral lung fields.								
	Chest CT: (approximately 2 weeks before administration) Bilateral metastases to lung increased. (day of onset) A random distribution of ground glass opacities appeared bilaterally except the metastases to lung.  (11 days after discontinuation) Ground glass opacities occupying almost all of the lung fields except the lung metastatic lesions were noted.								
	β-D σlu	can: (test date un							
		antigen: (test da	_						
		_		6 (Krebs von den Lunge-6): (day of onset) 824 U/mL					
	Concom	itant medications	s: none						

Parameter	Day before administration	Day 6 of administration; Day of discontinuation; Day of onset	2 days after discontinuation	4 days after discontinuation	8 days after discontinuation	11 days after discontinuation
WBC (/μL)	8,160	8,400	6,560	9,690	16,010	16,560

Neutrophils (%)	86.6	74.8	90.9	89.3	91.8	94.1
Lymphocytes (%)	5.0	7.7	4.1	3.1	1.8	2.2
Eosinophils (%)	2.7	6.8	0.0	0.0	0.2	0.0
LDH (%)	964	870	684	1,239	857	858
CRP (%)	10.68	27.29	10.69	4.68	7.84	6.95

3

## Revision of Precautions (No. 254)

This section presents details of revisions to the Precautions section of package inserts and brand names of drugs that have been revised in accordance with the Notifications dated February 18, 2014 (excluding those presented in the preceding section or "2. Important Safety Information" of this Bulletin).



#### **Psychotropics**

## Mianserin Hydrochloride

**Brand Name** Tetramide Tablets 10 mg, 30 mg (MSD K.K.)

Careful Administration Patients with or medical history of prolonged QT, patients treated with drugs that are known to cause prolonged QT, patients with marked bradycardia or hypokalaemia, etc.

Adverse Reactions (clinically significant adverse reactions)

Prolonged QT, ventricular tachycardia, (including torsades de pointes), ventricular fibrillation: Prolonged QT, ventricular tachycardia (including torsades de pointes), or ventricular fibrillation may occur. Patients should be carefully monitored, and if any abnormalities are observed, administration of this drug should be discontinued, and appropriate measures should be taken.

2

Cardiovascular agents-Miscellaneous

## **Bixalomer**

Brand Name Kiklin Capsules 250 mg (Astellas Pharma Inc.)

Adverse Reactions (clinically significant adverse reactions)

Intestinal perforation, intestinal obstruction: Intestinal perforation or intestinal obstruction may occur. Patients should be carefully monitored. If any abnormalities including severe constipation, persistent abdominal pain, and/or vomiting that are suggestive of these disorders are observed, administration of this drug should be discontinued, abdominal examination or imaging tests (plain X-ray, ultrasound, CT, etc.) should be performed, and appropriate measures should be taken.

3

Miscellaneous metabolism agents-Miscellaneous

## **Minodronic Acid Hydrate**

Brand Name Bonoteo Tablets 1 mg, 50 mg (Astellas Pharma Inc.), RECALBON Tablets 1 mg,

50 mg (Ono Pharmaceutical Co., Ltd.)

Adverse Reactions (clinically significant adverse reactions)

Hepatic dysfunction, jaundice: Hepatic dysfunction or jaundice with elevations of AST (GOT), ALT (GPT), etc., may occur. Patients should be carefully monitored, and if any abnormalities are observed, administration of this drug should be discontinued and appropriate measures should be taken.



Kampo product

## Yokukansan (for ethical use)

**Brand Name** 

TSUMURA Yokukansan Extract Granules for Ethical Use (Tsumura & Co.) and the others

Adverse Reactions (clinically significant adverse reactions)

<u>Cardiac failure</u>: Cardiac failure may occur. Patients should be carefully monitored, and if fluid retention, rapidly increased weight, or symptoms/signs of cardiac failure (shortness of breath, increased cardiothoracic ratio, pleural effusion, etc.) are observed, administration of this drug should be discontinued and appropriate measures should be taken.

Myopathy, rhabdomyolysis: Myopathy or rhabdomyolysis as a result of hypokalaemia may occur. Patients should be carefully monitored, and if feeling of weakness, muscular weakness, myalgia, convulsion/paralysis of limbs, increased Creatine kinase (Creatine phosphokinase), increased blood myoglobin, or increased urine myoglobin are observed, administration of this drug should be discontinued and appropriate measures such as administration of potassium preparation should be taken.

5

Over-the-counter drugs

## **Felbinac-containing Products**

**Brand Name** FEITAS SIP, FEITAS SIP HOT, FEITAS 3.5  $\alpha$ , 3.5  $\alpha$ L, 3.5  $\alpha$  HOT, 3.5  $\alpha$ L HOT,

FEITAS 5.0 (Hisamitsu Pharmaceutical Co., Inc.), and the others

**Consultation** The following symptoms may be adverse reactions, therefore if the following

symptoms are observed, immediately discontinue this drug, and contact a physician, pharmacist, or registered salesperson for a consultation with this

package insert.

The following serious symptoms occur infrequently. Immediately seek medical aid

if you experience any of these signs and symptoms.

Shock (anaphylaxis): Immediately after using the product, itchy skin, urticaria, hoarseness, sneezing, itchy throat, difficulty in breathing, palpitations, clouding consciousness, etc., may occur.

6

Over-the-counter drugs

## Yokukansan

Brand Name

Ohkan (Ohsugi Pharmaceutical Co., Ltd.) and the others

Consultation

The following symptoms may be adverse reactions, therefore if the following symptoms are observed, immediately discontinue this drug, and contact a physician, pharmacist, or registered salesperson for a consultation with this package insert.

The following serious symptoms occur infrequently. Immediately seek medical aid if you experience any of these signs and symptoms.

Cardiac failure: Respiratory discomfort while moving, getting tired easily,

swelling of legs, sudden weight gain

## List of Products Subject to Early Post-marketing Phase Vigilance

Early Post-marketing Phase Vigilance (EPPV) was established in 2001. This unique system for new drugs refers to any safety assurance activities that are conducted within a period of 6 months just after marketing of new drugs. It is imposed that its MAH is responsible for collecting the adverse drug reactions (ADRs) from all of the medical institutions where the drugs are used and for taking safety measures. The aim of the EPPV is to promote the rational proper use of drugs in medical treatments, and to promptly take actions for prevention of the serious ADRs. EPPV is specified as a condition of approval.

(As of March 1, 2014) ©: Newly-posted products, or products changed from the last Bulletin

	Nonproprietary name	lets, or products changed i		
	Brand name	Name of the MAH	Date of EPPV initiate	
0	Cinacalcet REGPARA TABLETS 25 mg, 75 mg* <sup>1</sup>	Kyowa Hakko Kirin Co., Ltd.	February 21, 2014	
0	Ranibizumab (Genetical Recombination)  LUCENTIS solution for intravitreal injection 2.3 mg/0.23 mL* <sup>2</sup>	Novartis Pharma K.K.	February 21, 2014	
	pH-4 Treated Acid Normal Human Immunoglobulin (Subcutaneous injection)  Hizentra 20% S.C. Injection 1 g/5 mL, 2 g/10 mL, 4 g/20 mL	CSL Behring K.K.	January 30, 2014	
	Ioflupane (123I) DaTSCAN Injectable	Nihon Medi-Physics Co., Ltd.	January 27, 2014	
	Talaporfin Sodium  LASERPHYRIN 100 mg FOR INJECTION*3	Meiji Seika Pharma Co., Ltd.	January 20, 2014	
	Meropenem Hydrate  (1) Meropen Vial for Intravenous Drip Infusion 0.25 g, 0.5 g  (2) Meropen Kit for Intravenous Drip Infusion 0.5 g*4	Dainippon Sumitomo Pharma Co., Ltd.	December 20, 2013	
	Methylphenidate Hydrochloride Concerta Tablets 18 mg, 27 mg* <sup>5</sup>	Janssen Pharmaceutical K.K.	December 20, 2013	
	Laninamivir Octanoate Hydrate INAVIR DRY POWDER INHALER 20 mg*6	Daiichi Sankyo Company, Limited	December 20, 2013	
	Fentanyl OneDuro Patch 0.84 mg, 1.7 mg, 3.4 mg, 5 mg, 6.7 mg* <sup>7</sup>	Janssen Pharmaceutical K.K.	December 20, 2013	
	Fentanyl Citrate Abstral Sublingual Tablets 100 μg, 200 μg, 400 μg	Kyowa Hakko Kirin Co., Ltd.	December 12, 2013	
	Vilanterol Trifenatate/Fluticasone Furoate Relvar 100 Ellipta 14 doses, Relvar 200 Ellipta 14 doses	GlaxoSmithKline K.K.	December 9, 2013	
	Talc Unitalc Intrapleural 4 g	Nobelpharma Co., Ltd.	December 9, 2013	

Simeprevir Sodium	Janssen Pharmaceutical	December 6, 2013	
SOVRIAD capsules 100 mg	K.K.		
Epinastine Hydrochloride	Santen Pharmaceutical Co., Ltd.	November 25, 2013	
ALESION Ophthalmic Solution 0.05%	Co., Ltd.		
Acetaminophen	Terumo Corporation	November 25, 2013	
acelio Intravenous Injection 1000 mg	-		
Landiolol Hydrochloride	Ono Pharmaceutical Co., Ltd.	November 22,	
ONOACT 50 for Injection*8	Ltd.	2013	
Aflibercept (Genetical Recombination)	D V 1 1' T 1	November 22,	
EYLEA solution for IVT inj. 40 mg/mL*9, EYLEA solution for IVT inj. Kit 40 mg/mL*9	Bayer Yakuhin, Ltd.	2013	
Topiramate	Kyowa Hakko Kirin Co.,	November 22,	
TOPINA Tablets 25 mg, 50 mg, 100 mg* <sup>10</sup>	Ltd.	2013	
Indacaterol Maleate/Glycopyrronium Bromide	Novartis Pharma K.K.	November 20,	
ultibro inhalation capsules	Novarus Filarilla K.K.	2013	
Tafamidis Meglumine	Pfizer Japan Inc.	November 20,	
Vyndaqel capsules 20 mg	Fiizei Japan inc.	2013	
Fluticasone Propionate/Formoterol Fumarate Hydrate	Kyorin Pharmaceutical	November 19,	
Flutiform 50 Aerosol 56 puffs, 125 Aerosol 56 puffs	Co., Ltd.	2013	
Brinzolamide/Timolol Maleate	Alaan Janan Ltd	November 19, 2013	
AZORGA Combination Ophthalmic Suspension	Alcon Japan Ltd.		
Paliperidone Palmitate	I	November 19,	
XEPLION Aqueous Suspension for IM Injection Syringe 25 mg, 50 mg, 75 mg, 100 mg, 150 mg	Janssen Pharmaceutical K.K.	2013	
Pneumococcal polysaccharide conjugate vaccine (13-valent, adsorbed)	Pfizer Japan Inc.	October 28, 2013	
Prevenar13 Suspension Liquid for Injection			
Hydroxyethylated Starch 130000	Fresenius Kabi Japan	Ontobas 25, 2012	
VOLUVEN 6% solution for infusion	K.K.	October 25, 2013	
Fentanyl Citrate	T. 1.1. C. 1. C.	C	
E-fen buccal tablet 50 μg, 100 μg, 200 μg, 400 μg,	Teikoku Seiyaku Co., Ltd.	September 26, 2013	
600 μg, 800 μg	210.	2013	
Norethisterone/Ethinylestradiol	Nobelpharma Co., Ltd.	September 26,	
LUNABELL tablets ULD	1 (oocipharma co., Eta.	2013	
Aminolevulinic Acid Hydrochloride	SBI Pharmaceuticals Co.,	September 26,	
ALAGLIO Oral 1.5 g	Ltd.	2013	
Aminolevulinic Acid Hydrochloride	Nobelpharma Co., Ltd.	September 18,	
Alabel Oral 1.5 g	Troophum Con, Etc.	2013	
Lixisenatide	Sanofi K.K.	September 17,	
Lyxumia Subcutaneous Injection 300 μg	Sunon IX.IX.	2013	
Darbepoetin Alfa (Genetical Recombination)			
NESP INJECTION 5 μg PLASTIC SYRING, 10 μg PLASTIC SYRING, 15μg PLASTIC SYRINGE,			
20 μg PLASTIC SYRINGE, 30 μg PLASTIC SYRINGE, 40 μg PLASTIC SYRINGE, 60 μg PLASTIC SYRINGE, 120 μg PLASTIC SYRINGE, 180 μg PLASTIC SYRINGE* <sup>11</sup>	Kyowa Hakko Kirin Co., Ltd.	September 13, 2013	
Tolvaptan  Samsca tablets 7.5 mg*12	Otsuka Pharmaceutical Co., Ltd.	September 13, 2013	
	· · · · · · · · · · · · · · · · · · ·		

	Eculizumab (Genetical Recombination)  Soliris Drip Infusion 300 mg* <sup>13</sup>	Alexion Pharma G.K.	September 13, 2013
	Pertuzumab (Genetical Recombination) PERJETA Intravenous Infusion 420 mg/14 mL	Chugai Pharmaceutical Co., Ltd.	September 12, 2013
	Bisoprolol	Toa Eiyo Ltd.	September 10, 2013
	Bisono tape 4 mg, 8 mg		
	Irbesartan/Trichlormethiazide	Shionogi & Co., Ltd.	September 4, 2013
	Irtra Combination Tablets LD, HD		
	Topiroxostat	(1) Fujiyakuhin Co., Ltd. (2) Sanwa Kagaku Kenkyusho CO., LTD.	September 4, 2013
	(1) TOPILORIC Tablets 20 mg, 40 mg, 60 mg (2) URIADEC Tab. 20 mg, 40 mg, 60 mg		

- \*1 An additional indication for "the treatment of hypercalcaemia in patients with the following diseases: parathyroid carcinoma, and primary hyperparathyroidism for which patients are unable to undergo parathyroidectomy or which relapses after operation"
- \*2 An additional indication for "the treatment of patients with diabetic macular oedema"
- \*3 An additional indication for "the treatment of patients with primary malignant brain tumour (only in patients who undergo tumourectomy)"
- \*4 An additional administration for "pyogenic meningitis"
- \*5 An additional administration for "patients aged 18 years or older"
- \*6 An additional indication for "the prophylaxis of influenza A or B virus infection"
- \*7 An additional indication for "the treatment of patients with the following symptoms cannot be managed by treatments with non-opioid analgesics and weak opioid analgesics (only in patients who switch from an opioid analgesic): moderate to severe chronic pain"
- \*8 An additional indication for "the treatment of tachyarrhythmia including atrial fibrillation and atrial flutter in patients with failed cardiac function"
- \*9 An additional indication for "the treatment of patients with macular oedema following central retinal vein occlusion"
- \*10 An additional administration for "pediatrics"
- \*11 An additional administration for "pediatrics"; EPPV was initiated in January 24, 2014 for NESP INJECTION 5 μg PLASTIC SYRING
- \*12 An additional indication for "the treatment of fluid retention in patients with hepatic cirrhosis which is not adequately responded to other diuretics such as loop diuretics"
- \*13 An additional indication for "the treatment of patients with atypical hemolytic uremic syndrome to inhibit thrombotic microangiopathy"