

Summary of investigation results

Amoxicillin hydrate, potassium clavulanate/amoxicillin hydrate, lansoprazole/amoxicillin hydrate/clarithromycin, lansoprazole/amoxicillin hydrate/metronidazole, rabeprazole sodium/amoxicillin hydrate/clarithromycin, rabeprazole sodium/amoxicillin hydrate/metronidazole

January 9, 2015

Non-proprietary Name

- a. amoxicillin hydrate
- b. potassium clavulanate/amoxicillin hydrate
- c. lansoprazole/amoxicillin hydrate/clarithromycin
- d. lansoprazole/amoxicillin hydrate/metronidazole
- e. rabeprazole sodium/amoxicillin hydrate/clarithromycin
- f. rabeprazole sodium/amoxicillin hydrate/metronidazole

Brand Name (Marketing Authorization Holder)

- Sawacillin Capsules 125 mg and 250 mg, Sawacillin Fine Granules 10%, and Sawacillin Tablets 250 mg (Astellas Pharma Inc.), Pasetocin Capsules 125 mg and 250 mg, Pasetocin Fine Granules 10%, and Pasetocin Tablets 250 mg (Kyowa Hakko Kirin Co., Ltd.), and others
- b. Augmentin Combination Tablets 125SS and 250RS, and Clavamox Combination Dry Syrup for pediatric (GlaxoSmithKline K.K.)
- c. Lansap 400 mg and 800 mg (Takeda Pharmaceutical Company Limited)
- d. Lampion Pack (Takeda Pharmaceutical Company Limited)
- e. Rabecure Pack 400 mg and 800 mg (Eisai Co., Ltd.)
- f. Rabefine Pack (Eisai Co., Ltd.)

Pmda ,

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This English version is intended to be a reference material for the convenience of users. In the event of inconsistency between the Japanese original and this English translation, the former shall prevail.

Indications

See annex

Summary of revision

- a. amoxicillin hydrate
 - 'Erythroderma (dermatitis exfoliative)' should be added in the toxic epidermal necrolysis, oculomucocutaneous syndrome, erythema multiforme, and acute generalised exanthematous pustulosis subsection in the Clinically significant adverse reactions section.
 - 'Meningitis aseptic' should be added in the Clinically significant adverse reactions section.
- b. potassium clavulanate/amoxicillin hydrate
 - 'Erythroderma (dermatitis exfoliative)' should be added in the toxic epidermal necrolysis, oculomucocutaneous syndrome, and erythema multiforme subsection in the Clinically significant adverse reactions section.
 - 'Meningitis aseptic' should be added in the Clinically significant adverse reactions section.
- c, d, e, f. lansoprazole/amoxicillin hydrate/clarithromycin, lansoprazole/amoxicillin hydrate/metronidazole, rabeprazole sodium/amoxicillin hydrate/clarithromycin, and
 - rabeprazole sodium/amoxicillin hydrate/metronidazole
 - 'Erythroderma (dermatitis exfoliative)' should be added in the toxic epidermal necrolysis, oculomucocutaneous syndrome, erythema multiforme, and acute generalised exanthematous pustulosis subsection of amoxicillin hydrate in the Clinically significant adverse reactions section.
 - 'Meningitis aseptic' should be added in the Clinically significant adverse reactions section of amoxicillin hydrate.

Background of the revision and investigation results

Cases of erythroderma (dermatitis exfoliative) have been reported in patients treated with amoxicillin hydrate in Japan and in foreign countries, and the company core datasheet (CCDS)* has been revised to include information on erythroderma (dermatitis exfoliative). Following an investigation based on the opinions of expert advisors and available evidence, the MHLW/PMDA concluded that revision of the package inserts was necessary.

Cases of meningitis aseptic have been reported in patients treated with amoxicillin hydrate in foreign countries, and the CCDS* has been revised to include information on meningitis aseptic. Following an investigation based on the opinions of expert advisors and available evidence, the MHLW/PMDA concluded that revision of the package inserts was necessary.

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The number of reported adverse reactions and fatal cases in the last 3 fiscal years in Japan

- Erythroderma (dermatitis exfoliative)
 - a. amoxicillin hydrate
 - No case of erythroderma (dermatitis exfoliative) has been reported.
 - b. potassium clavulanate/amoxicillin hydrate
 - A case of erythroderma (dermatitis exfoliative) has been reported. Causality could not be ruled out in this case. No fatality has been reported.
 - c. lansoprazole/amoxicillin hydrate/clarithromycin
 A case of erythroderma (dermatitis exfoliative) has been reported. Causality has not been assessed in this case. No fatality has been reported.
 - d. lansoprazole/amoxicillin hydrate/metronidazole
 No case of erythroderma (dermatitis exfoliative) has been reported.
 - e. rabeprazole sodium/amoxicillin hydrate/clarithromycin No case of erythroderma (dermatitis exfoliative) has been reported.
 - f. rabeprazole sodium/amoxicillin hydrate/metronidazole No case of erythroderma (dermatitis exfoliative) has been reported.
- Meningitis aseptic
 - a. amoxicillin hydrate

No case of meningitis aseptic has been reported.

- b. potassium clavulanate/amoxicillin hydrate No case of meningitis aseptic has been reported.
- c. lansoprazole/amoxicillin hydrate/clarithromycin No case of meningitis aseptic has been reported.
- d. lansoprazole/amoxicillin hydrate/metronidazole No case of meningitis aseptic has been reported.
- e. rabeprazole sodium/amoxicillin hydrate/clarithromycin No case of meningitis aseptic has been reported.
- f. rabeprazole sodium/amoxicillin hydrate/metronidazole No case of meningitis aseptic has been reported.

NOTE:

* The CCDS is prepared by the marketing authorization holder and covers material relating to safety, indications, dosing, pharmacology, and other information concerning the product.



Non-proprietary name	Brand Name (Marketing Authorization Holder)	Indications
250 mg, Sawacillin Tablets 250	amoxicillin-susceptible strains of genus	
mg, Pasetocin Capsules 125 mg	Staphylococcus, genus Streptococcus,	
and 250 mg, and Pasetocin	Streptococcus pneumoniae, genus	
Tablets 250 mg	Enterococcus, Neisseria gonorrhoeae,	
	Escherichia coli, Proteus mirabilis,	
	Haemophilus influenza, Helicobacter pylori,	
	and Treponema pallidum	
	Applicable conditions:	
	Superficial skin infections, deep-seated skin	
		infections, lymphangitis/lymphadenitis,
		chronic pyoderma, secondary infections
		following trauma, thermal burn, and surgical
		wound, secondary infections of
		erosions/ulcers, mastitis, osteomyelitis,
		pharyngitis/laryngitis, tonsillitis, acute
		bronchitis, pneumonia, secondary infection of
		chronic respiratory lesions, cystitis,
		pyelonephritis, prostatitis (acute/chronic),
		epididymitis, Neisseria gonorrhoeae infection
		syphilis, intrauterine infection, uterine
		adnexitis, parametritis, dacryocystitis,
		hordeolum, otitis media, periodontal
		inflammation, pericoronitis, jaw inflammation
		scarlet fever, Helicobacter pylori infection of
		the stomach after endoscopic treatment for
		gastric/duodenal ulcer, mucosa-associated
		lymphoid tissue (MALT) lymphoma of the
		stomach, idiopathic thrombocytopenic
		purpura, and early stage of gastric cancer, and
		Helicobacter gastritis
	Pasetocin Fine Granules 10% and	Applicable microorganisms:
	Sawacillin Fine Granules 10%	amoxicillin-susceptible strains of genus
		Staphylococcus, genus Streptococcus,
		Streptococcus pneumoniae,, genus
		Enterococcus, Neisseria gonorrhoeae,
		Escherichia coli, Proteus mirabilis,
		Haemophilus influenza, Helicobacter pylori,
		and <i>Treponema pallidum</i>
		Applicable conditions:
		Superficial skin infections, deep-seated skin
		infections, lymphangitis/lymphadenitis,
		chronic pyoderma, secondary infections
		following trauma, thermal burn, and surgical
		wound, secondary infections of



Non-proprietary name	Brand Name	Indications
	(Marketing Authorization Holder)	
		erosions/ulcers, mastitis, osteomyelitis, pharyngitis/laryngitis, tonsillitis, acute bronchitis, pneumonia, secondary infection of
		chronic respiratory lesions, cystitis, pyelonephritis, prostatitis (acute/chronic), epididymitis, <i>Neisseria gonorrhoeae</i> infection,
		syphilis, intrauterine infection, uterine adnexitis, parametritis, dacryocystitis,
		hordeolum, otitis media, periodontal inflammation, pericoronitis, jaw inflammation, scarlet fever, and <i>Helicobacter pylori</i> infection
potassium	Augmentin Combination Tablets	of the stomach/duodenal ulcer Applicable microorganisms:
clavulanate/amoxicillin hydrate	125SS and 250RS	amoxicillin-susceptible strains of genus Staphylococcus, Neisseria gonorrhoeae, Escherichia coli, genus Klebsiella, genus
		Proteus, Haemophilus influenza, genus Bacteroides, genus Prevotella (except
		Prevotella bivia) Applicable conditions: Superficial skin infections, deep-seated skin
		infections, lymphangitis/lymphadenitis, chronic pyoderma, pharyngitis/laryngitis,
		tonsillitis, acute bronchitis, secondary infection of chronic respiratory lesions,
		cystitis, pyelonephritis, <i>Neisseria gonorrhoeae</i> infection, intrauterine infection, uterine adnexitis, and otitis media
	Clavamox Combination Dry Syrup for pediatric	Applicable microorganisms: amoxicillin-susceptible strains of
		Streptococcus pneumoniae, (minimum inhibitory concentration of penicillin $G \le 2$
		μg/mL), Moraxella (Branhamella) catarrhalis, Haemophilus influenza, genus Staphylococcus,
		Escherichia coli, genus Klebsiella, genus Proteus, genus Bacteroides, genus Prevotella
		(except <i>Prevotella bivia</i>) Applicable conditions:
		Superficial skin infections, deep-seated skin infections, lymphangitis/lymphadenitis, chronic pyoderma, pharyngitis/laryngitis, tonsillitis, acute bronchitis, cystitis,
lansoprazole/amoxicillin hydrate/clarithromycin	Lansap 400 mg and 800 mg	pyelonephritis, and otitis media Applicable microorganisms: amoxicillin/clarithromycin-susceptible strains of <i>Helicobacter pylori</i>

Pharmaceuticals and Medical Devices Agency

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Non-proprietary name	Brand Name	Indications
	(Marketing Authorization Holder)	
		Applicable conditions:
		Helicobacter pylori infection of the stomach
		after endoscopic treatment for
		gastric/duodenal ulcer, MALT lymphoma of
		the stomach, idiopathic thrombocytopenic
		purpura and early stage of gastric cancer, and
		Helicobacter gastritis
lansoprazole/amoxicillin	Lampion Pack	Applicable microorganisms:
hydrate/metronidazole	-	amoxicillin/metronidazole-susceptible strains
•		of Helicobacter pylori
		Applicable conditions:
		Helicobacter pylori infection of the stomach
		after endoscopic treatment for
		gastric/duodenal ulcer, MALT lymphoma of
		the stomach, idiopathic thrombocytopenic
		purpura and early stage of gastric cancer, and
		Helicobacter gastritis
rabeprazole	Rabecure Pack 400 mg and 800	Applicable microorganisms:
sodium/amoxicillin	mg	amoxicillin/clarithromycin-susceptible strains
hydrate/clarithromycin		of Helicobacter pylori
5		Applicable conditions:
		Helicobacter pylori infection of the stomach
		after endoscopic treatment for
		gastric/duodenal ulcer, MALT lymphoma of
		the stomach, idiopathic thrombocytopenic
		purpura and early stage of gastric cancer, and
		Helicobacter gastritis
rabeprazole	Rabefine Pack (Eisai Co., Ltd.)	Applicable microorganisms:
sodium/amoxicillin		amoxicillin/metronidazole-susceptible strains
hydrate/metronidazole		of Helicobacter pylori
•		Applicable conditions:
		Helicobacter pylori infection of the stomach
		after endoscopic treatment for
		gastric/duodenal ulcer, MALT lymphoma of
		the stomach, idiopathic thrombocytopenic
		purpura and early stage of gastric cancer, and
		Helicobacter gastritis