

Pharmaceuticals and Medical Devices Agency

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# Summary of Investigation Results Tazobactam/piperacillin hydrate

February 14, 2023

### Non-proprietary name

Tazobactam/piperacillin hydrate

## Brand name (marketing authorization holder)

Zosyn I.V. injection 2.25, 4.5, Zosyn I.V. infusion bag 4.5 (TAIHO Pharmaceutical Co., Ltd.), and the others

### Japanese market launch

I.V. injection: October 2008, I.V. infusion bag: June 2015

### Indications

·Common infection

<Applicable microorganisms>

Tazobactam/piperacillin hydrate-susceptible strains of genus *Staphylococcus*, genus *Streptococcus*, genus *Pneumococcus*, genus *Enterococcus*, *Moraxella (Branhamella) catarrhalis, Escherichia coli*, genus *Citrobacter*, genus *Klebsiella*, genus *Enterobacter*, genus *Serratia*, genus *Proteus*, genus *Providencia*, *Haemophilus influenzae*, *Pseudomonas aeruginosa*, genus *Acinetobacter*, genus *Peptostreptococcus*, genus *Clostridium* (excluding *Clostridium difficile*), genus *Bacteroides*, and genus *Prevotella* <Applicable conditions>

Sepsis, deep-seated skin infections, secondary infections following erosion or ulcer, pneumonia, pyelonephritis, complicated cystitis, peritonitis, intra-abdominal abscess, cholecystitis, and cholangitis

·Febrile neutropenia

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#### Summary of revisions

"Haemophagocytic lymphohistiocytosis (haemophagocytic syndrome)" should be added to the Clinically Significant Adverse Reactions section.

#### Investigation results and background of the revision

Cases involving haemophagocytic lymphohistiocytosis reported in Japan and overseas were evaluated. Cases for which a causal relationship between tazobactam/piperacillin hydrate and haemophagocytic lymphohistiocytosis was reasonably possible have been reported in Japan and overseas. As a result of consultation with expert advisors regarding the causality assessment of the cases and the necessity of revision of Precautions, MHLW/PMDA concluded that revision of Precautions was necessary.

# Reference: Number of cases<sup>\*,†</sup> and patient mortalities involving haemophagocytic lymphohistiocytosis reported in Japan and overseas

A total of 15 cases have been reported in Japan to date (including 5 cases for which a causal relationship between the drug and event was reasonably possible).

A total of 2 patient mortalities have been reported in Japan to date. (A causal relationship between the drug and deaths subsequent to the event could not be established for any of these cases.)

A total of 26 cases have been reported overseas to date (including 3 cases for which a causal relationship between the drug and event was reasonably possible). 1 instance of patient mortality has been reported overseas to date. (A causal relationship between the drug and death subsequent to the event could not be established for this case.)

\*: Cases collected in the PMDA's database for adverse drug reactions, etc. report †: Cases reported on the old preparations (combination drugs with a tazobactam: piperacillin hydrate potency ratio of 1:4) are included.

The expert advisors present at the Expert Discussion regarding the current investigation were nominated based on their

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conflict of interest declarations concerning the relevant products, pursuant to the "Rules for Convening Expert Discussions, etc., by the Pharmaceuticals and Medical Devices Agency" (PMDA Administrative Rule No. 20-8, dated December 25, 2008).

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