130X200

For the use of a Registered Medical Practitioner or a Hospital or a Laboratory only

## Ceftazidime & Avibactam Powder for Concentrate for Solution for Infusion



Composition : Each vial contains : Ceftazidime Pentahydrate IP Equivalent to Ceftazidime

2.0 am Equivalent to Avibactam 0.5 gm

3, DOSAGE FORM AND STRENGTH
Injection: Ceftazidime for Injection IP (Sterile)Eq. to Ceftazidime 2 g (Sterile Mixture of Ceftazidime

& Nobscation Sociam (Serelo(Eq.) to Arbotram 0.5 g.

(ALMICA (PARTIME) And COMMISSION OF A COM

ended that ceftazidime-avibactam should be used to treat infections due to aerobic Gram-negative organisms in adult th limited treatment options only after consultation with a physician with appropriate experience in the managemen

| Type of infection  | Dose of<br>ceftazidime/av<br>ibactam | Frequency     | Infusion time | Duration of treatment  |  |
|--|--------------------------------------|---------------|---------------|--|--|
| cIAI2,3  | 2 g/0.5 g                            | Every 8 hours | 2 hours       | 5-14 days  |  |
| cUTI, including pyelonephritis3  | 2 g/0.5 g                            | Every 8 hours | 2 hours       | 5-10 days4   |  |
| HAP/VAP3   | 2 g/0.5 g                            | Every 8 hours | 2 hours       | 7-14 days.   |  |
| Bacteraemia associated with,<br>or suspected to be associated<br>with any of the above<br>infections     | 2g/0.5g                              | Every 8 hours | 2 hours       | Duration of treatment<br>should be in<br>accordance with the<br>site of infection.   |  |
| Infections due toaerobic Gram-<br>negative organisms in patients<br>with limited treatment<br>options2,3 | 2 g/0.5 g                            | Every 8 hours | 2 hours       | Guided by the severity<br>of the infection, the<br>pathogen(s) and the<br>patient's clinical and<br>bacteriological<br>progress5 |  |

- CrCLestimated using the Cockcroft-Gault formula.

  To be used in combination with metronidatole when anaerobic pathogens are known or suspected to be contributing to the
- infectious process.

  10 be used in combination with a smitherable gatherable pathogens are known or supported to be contributing to the infectious process.

  10 be used in combination with a smitherable gath active against Cram positive pathogens when these are known or the combination of the infection or cross.

  11 The total disable to have many included intervision conflacionities which the following the group of the combination of the combinati

No dosage adjustment is required in elderly patients.

 $No do sage adjustment is required in patients with mild renal impairment (estimated CrCL>50 - <math>\leq$  80 mL/min). We though administration: For intravenous use.

4.2 Contraindications Ceftazidime & Avibactam is contraindicated in patients with known serious hypersensitivity avibactam-containing products,

A Special warrings and precentation to ruse

Ferrise and executionly fast hypersonishity reactions are possible. In case of hypersonishity reaction, treatment with
ordazation-a-subcaten must be disconfinued immediately and adequate emergency reasoner must be initiated fafor- beginning
the control of the c

Chostridinoides difficile

chould ha considered, Medicinal products that inhibit peristalsis should not be given.

immaniment
Childradime and avaloctam are eliminated via the kidneys, therefore, the door should be reduced according to the degree of renal impairment. Neurological sequetae, including termore, preschoots, non-convolvies status spellepticus, convolution, encephalospathy and coors, have occasionable been resported eath the chazilatime when the door bas not been reduced in patients with renal impairment, the patients with renal impairment patients of the control or cont

Concurrent restment with high doses of cephologonal as our restriction. Security of the control of the control

significant behibbitor of systechrone PS40 enzymes in vitro.

Arbactam and officialism showed no in vitro systechrone PS0 induction at clinically relevant concentrations. Availantam and confazioned no not inhibit the major read or legant transporters in the clinically relevant sepourie reage, therefore the confazioned not not relevant transporters in the clinically relevant sepourie reage, therefore the clinical sides have been established and advisaction, and between celtassifience/substant and meterositated that there is no interaction Concurrent treatment with high doses of cephologopromise and emportation definal production such as officed interaction Concurrent treatment with high doses of cephologopromise and emportation definal production such as officed interaction.

Prepandy

But summer There are no adequate and well-controlled studies of celtacidine or avalantam in pregnant women. Neither collaboration are with extraor respect in risk at decise of the set of transier for a more moderation and controlled in the restable. The collaboration is a set of transier for a more moderation and controlled in the restable and the collaboration and the set of the set

<u>Cerhozidime</u>
Reproduction studies have been performed in mice and rats at doses up to 40 times the human dose and showed no evidence of

Androdom:
Ambattam was not terategenic in rats or rabbits. In the rat, intravenous studies with 0, 250, 500 and 1000 mg/mg/day arbattam during elaboration days (5-17 showed on embryolistal lossisty at does up to 1000 mg/mg/day approximately 9 men the human during elaboration days (5-17 showed on embryolistal lossisty) and does up to 1000 mg/mg/day approximately 9 men the human during elaboration days (5-18 showed on the proposition of the proposi

| System Organ<br>Class   | Very<br>commo<br>n                   | Common  | Uncommon   | Very rare                        | Unknown   |
|---|--------------------------------------|---|--|----------------------------------|---|
| Infections and infestations                                   |                                      | Candidiasis (including<br>Vulvovaginal candidiasis<br>and Oral candidiasis)   | Clostridioides<br>difficile colitis<br>Pseudomembra<br>n ous colitis               |                                  |   |
| Blood and<br>lymphatic<br>system<br>disorders                 | Coombs<br>direct<br>test<br>positive | Eosinophilia<br>Thrombocytosis<br>Thrombocytopenia  | Neutropenia<br>Leukopenia<br>Lymphocytosis   |                                  | Agranulocyto<br>s Haemolyt<br>anaemia   |
| Immune<br>system<br>disorders                                 |                                      |   |  |                                  | Anaphylactic<br>reaction  |
| Nervous<br>system<br>disorders                                |                                      | Headache Dizziness  | Paraesthesia   |                                  |   |
| Gastrointestin<br>al disorders                                |                                      | Diarrhoea Abdominal pain  | Dysgeusia  |                                  |   |
|   |                                      | Nausea Vomiting   |  |                                  |   |
| Hepatobiliary<br>disorders                                    |                                      | Alanine aminotransferase<br>increased Aspartate<br>aminotransferase<br>increased Blood alkaline<br>phosphatase increased<br>Gammaglutamyitransfera<br>se increased Blood lactate<br>dehydrogenase Increased |  |                                  | Jaundice  |
| Skin and<br>subcutaneous<br>tissue<br>disorders               |                                      | Rash maculopapular<br>Urticarial Pruritus   |  |                                  | Toxic epidermal necrolysis Stevens-Johnson syndrome Erythema multiforme Angioedema Drug Reactic with Eosinophilia and System Symptoms (DRESS) |
| Renal and<br>urinary<br>disorders                             |                                      |   | Blood<br>creatinine<br>increased Blood<br>urea increased<br>Acute kidney<br>injury | Tubulointerstiti<br>al nephritis |   |
| General<br>disorders and<br>administration<br>site conditions |                                      | Infusion site thrombosis<br>Infusion site phlebitis<br>Pyrexia  |  |                                  |   |

Prediction: population The softey associament in prediction; patients is based on the safety data from two tribs in which (3 speeding legal from 3) years in Soft to an El System; all which and 67 placetes with (1) legal from 10 member is been than \$1 system; all which and 67 placetes with (1) legal from 10 member is been that \$1 system; instead and 67 placetes with (1) legal from 10 member is been soften and seal projugation with old and 67 placetes with (1) legal from 10 member is been soften and seal projugation with old and 67 placetes with (1) legal from 10 member is been soften and seal projugation with old and 67 placetes with (1) legal from 10 member is been soften and 67 placetes with (1

the ceftacidime component. Serum levels of ceftaludime can be reduced by haemodallysis or peritoneal dialysis. I haemodallysis peritod, 55% of the wirehoten dose was removed. S.PHARMACOLOGICAL PROPERTIES S.I Pharmacodynamic properties Pharmacothrespects' group: Antibacterials for systemic use, other beta-lactam antibacterials, third-generation cop

Pharmacoliterapolics group Annaecuments in systems of the Charlest Solitories basis for a consistent in Indiag protein (PRPs), which hadde to be consistent in the Charlest Solitories (Indiag and Indiag and In

reconstruction of the membership to the contract processing which we will not entire common and the state of the contract processing which is the contract processing which is the contract processing which the contract processing which the processing which is the contract processing which the processing which is the contract proc

<u>Portubutors</u>

The human profess bridling of both orbitacione and avislactum is approximately 10% and 8%, respectively. The steady-date for the human profess bridling of the steady-date of the steady-date of the steady of the

Elimination

-----inal half-life (Us) Elementors.

The terminal half-life (IX) of both celtracidime and avibactam is about 2 h after intravenous administration. Celtracidime is ourcred unchanged into the surve by performed in flatzoine, appearance y 200% of the door is recovered in the urine within 24 h Avibactam in corrected workinged into the surve level has restrict deserved or approximately 150 mill, mill, suggesting as the balls in Avibactam in corrected mill, mill, suggesting and part balls in addition to plannershaft inflatzoin. Approximately 150 mill, and available to the convent in the urine, 50% within 12 h, leace than 11 for celtracidine are current of the bits and ends to share 100 mill or within 12 h, leace than 11 for celtracidine are current of the bits and ends to share 100 mill or within 12 h, leads to the convent of the urine, 50% within 12 h, leads to the convent of the urine, 50% within 12 h, leads to the unit of the urine, 50% within 12 h, leads to the unit of the urine, 50% within 12 h, leads to the unit of the urine, 50% within 12 h, leads to the unit of the urine, 50% within 12 h, leads to the unit of the urine, 50% within 12 h, leads to the unit of the urine, 50% within 12 h, leads to the urine, 100% within 12 h, leads to the urine, 100% within 12 h, leads to the urine, 100% within 12 h, leads to t

Aviboctom

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose Non-times data reveal in a special absard for humans based on comercional studies of safety pharmatically, restrict one touching or produced to the control of the control

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## Ceftazidime

Ceffazirdime is a semisynthetic heta-lartam antiharterial drug. It is the nentahwhrate of IGR 7R. 71-7-17-17 aminothiazol-4-vII-7-17-

carboxypropan-2-yloxyimino) acetamido)-8-oxp-3-(pyridinium-1-ylmethyl)-5-thia-1

azabicyclic [4.2.0] oct-2-ene-2-carboxylate. Molecular Formula - C,,H,,N,O,S,

Molecular weight-636.6

Chemical Structure



### Avibactam

Authortam sodium chemical name is sodium I/2S SRI-2-carbamovI-7-ovo-1 6-diazabicuclo [3 2 1] octan-6-vII sulfate

Molecular Formula - C7H10 N3O6SNa

Molecular weight-287, 23 Chemical Structure



#### 8. PHARMACEUTICAL PARTICULARS

8.1 Incompatibilities

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

8 2 Shalf life

As on Carton 8.3 Packaging information

Avictum Injection is available in 20 ml vial.

8.4 Storage and handling instruction

Store below 30°C. Protect from light. Do not freeze.

Once the pack has been opened, the product should be used immediately.

Keep medicine out of reach of children

9. PATIENT COUNSELLING INFORMATION

Read this entire leaflet carefully before you start taking this medicine because it contains important information for you.

Keep this leaflet. You may need to read it again

If you have any further questions, ask your doctor or pharmacist.

This medicine has been prescribed for you only. Do not passit on to others, It may harm them, even if their signs of illness are the same as yours

If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. What Ceftazidime & Avibactam Sodium is and what it is used for?

Ceftazidime & Avibactam is an antibiotic medicine that contains two active substances ceftazidime and avibactam.

Ceftazidime belongs to the group of antibiotics called "cephalosporins". It can kill many types of bacteria.

Avibactam is a "beta-lactamase inhibitor" that helps ceftazidime kill some bacteria that it cannot kill on its own.

Ceftazidime & Avibactam is used in adults and paediatric patients aged 3 months and over to treat:

infections of the stomach and gut (abdomen)

infections of the bladder or kidneys called "urinary tract infections"

an infection of the lungs called "pneumonia"

infections caused by bacteria that other antibiotics may not be able to kill Ceftazidime & Avibactam is used in adults to treat infection of the blood associated with infections of the abdomen, urinary tract, or pneumonia. What you need to know before you

use Ceftazidime & Avibactam Do not use Ceftazidime & Avibactam if:

you are allergic to other cephalosporin antibiotics

you have ever had a severe allergic reaction to other antibiotics belonging to the penicillin or carbapenem

What you need to know before you are treated with Ceftazidime & Avibactam Injection?

Before using ceftazidime and avibactam injection, be sure to mention any of the following: Probenecid (Probalan, in Col-Probenecid) Your doctor may need to change the doses of your medications or monitor you carefully for side effects. tell your

doctor if you have or have ever had kidney disease.

- Doctors need to take special care when using If you get migraines.
- If you have asthma
- If you have problems with your heart or your circulation (such as high blood pressure).
- If you have any other medical condition.
- If any of these apply to you, tell your doctor
- If you are allergic to Ceftazidime & Avibactam or any of the ingredients Ceftazidime & Avibactam Injection If you have any disease of the liver or kidneys.
- If you have pre-eclampsia (high blood pressure in pregnancy) or eclampsia (toxaemia of pregnancy).
- If you have any serious heart disease.
- If you have enilensy.
- If you ever have had an allergic reaction to oxytocin (sometimes given as a drip or injection during or after labour) If any of these apply to you, tell your doctor.

#### How to use Ceftazidime & Avihactam

Posology

Ceftazidime & Avibactam will be given to you by a doctor or a nurse.

The recommended dose for adults is one vial (2 g of ceftazidime and 0.5 g of avibactam), every 8 hours.

Method of administration: For Intravenous use.

#### Other medicines and Ceftazidime & Avibactam Injection

Tell your doctor or nurse if you are using, have recently used or might use any other medicines. Talk to your doctor before using Ceftazidime & Avibactam Injection if you are taking any of the following medicines:

an antihintic called chloramnhenicol

a type of antibiotic called an aminoglycoside – such as gentamicin, tobramycin a water tablet called furncemide

a medicine for gout called probenecid

## Pregnancy and breast-feeding

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor for advice before

using this medicine Driving and using machines

Ceftazidime & Avihartam may make you feel dizzy. This may affect you being able to drive, use tools or machines.

Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them. The following side effects may happen with this medicine:

Tell your doctor straight away if you notice any of the following serious side effects - you may need urgent medical treatment: severe allergic reactions - signs include sudden swelling of your lips, face, throat or tongue, a severe rash or other severe skin reactions, difficulty swallowing or breathing. This reaction may be life-threatening

diarrhoea that keeps getting worse or does not go away, or stools that contains blood or mucus - this may happen during or after treatment is stopped with Ceftazidime & Avibactam Injection. If this happens do not take medicines that stop or slow bowel

movement Other side effects

Tell your doctor or nurse if you notice any of the following side effects:

Very common: (may affect more than 1 in 10 people)

abnormal result with a test called "DAGT" or "Coombs". This test looks for antibodies that fight against your red blood cells. It is possible that this could cause anaemia (which may make you feel tired) and jaundice (yellowing of the skin and eyes)

Common: (may affect up to 1 in 10 people)

fungal infections, including those of the mouth and vagina change in the number of some types of blood cells (called "eosinophils" and "thrombocytes") - shown in blood tests

headarhe feeling dissy

feeling sick (nausea) or being sick (vomiting)

stomach pain diarrhoea

increase in the amount of some enzymes produced by your liver-shown in blood tests

raised itchy skin rash ("hives")

redness, pain or swelling where Zavicefta was given into a vein

Uncammon: (may affect up to 1 in 100 people)

decrease in the number of some types of blood cells (called "leucocytes") - shown in blood tests

tingling or numbness

had taste in your mouth

an increase in the level of some types of substances in your blood (called "creatinine" and "urea"). These show how well your kidnevs are working.

Very rare: (may affect up to 1 in 10,000 people)

decrease in the number of red blood cells (haemolytic anaemia) - shown in blood tests

severe allergic reaction (see Serious side effects, above)

yellowing of the whites of the eyes or skin sudden onset of a severe rash or blistering or peeling skin, possibly accompanied by a high fever or joint pain (these may be signs of more serious medical conditions such as toxic epidermal necrolysis, Stevens-Johnson syndrome, enythema multiforme or a condition known as DRESS, Drug Reaction with Eosinophilia and Systemic Symptoms)

swelling under the skin narticularly line and around the eyes

How should I store Ceftazidime & Avibactam Sodium Injection?

Store below 30°C. Protect from light. Do not freeze. Keep medicine out of reach of children

Do not use this medicine after the expiry date which is stated on the carton after expiry. The expiry date refers to the last day of that

What are the ingredients of Ceftazidime & Avibactam Sodium Injection? Ceftazidime & Avibactam Sodium Injection Contains Ceftazidime 2g & Avibactam 0.5g

Storage: Store in a cool, dry & dark place,

Keep medicine out of reach of children.

Mfg. Lic No.: N/MB/16/185 Mfd. by: Protech Telelinks (A WHO-GMP Certified Company) Mauza Ogli, Suketi Road, Kala Amh

Distt. Sirmour-173030 (H.P.) Manufacture For:

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