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

### **CEFTAWIN-AV**

Composition

Each vial contains: Ceftazidime IP

Eq. to Anhydrous Ceftazidime 2.0gm Avihactam Sodium

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

\* Author/orm Sodium (Sterile)Eq. to Avibactam 0.5 g.

4.CLINICAL PARTICULARS

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 ceftazidime/av 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, or suspected to be associated with any of the above infections	2 g/0.5 g	Every 8 hours	2 hours	Duration of treatment should be in accordance with the site of infection.
Infections due toaerobic Gram- negative organisms in patients with limited treatment options2,3	2 g/0.5 g	Every 8 hours	2 hours	Guided by the severity of the infection, the pathogen(s) and the patient's clinical and bacteriological progress5

- nated using the Cockcroft-Gault formula. d in combination with metronidazole when anaerobic pathogens are known or suspected to be contributing to the
- infectious process.

  To be used in combination with an antibacterial agent active against Gram-positive pathogens when these are known or succepted to be contributing to the infectious process.
- suspected to be contributing to the miectious process. The total duration shown may include intravenous ceftazidime-avibactam followed by appropriate oral therapy. The total duration shown may include intravenous ceftazidime-avibactam followed by approp
   - There is very limited experience with the use of ceftazidime-avibactam for more than 14 days.

   Special population:
   Eliderly
   No dissage adjustment is required in elderly patients.

Renal impairment
No dosage adjustment is required in patients with mild renal impairment (estimated CrCL > 50 - 580 mL/min)
Method of administration: For Intravenous use.

terno or administrations for intravenous use. Hazaidime-avibactam is administered by intravenous infusion over 120 minutes in an appropriate infusion volume for instructions neconstitution and dilution of the medicinal product before administration

A Contraindications

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

A Special warnings and precurations for use

Strikes and excellently fast lipses excellent in case of hyposeneithility reactions, treatment with
relations and excellently fast lipsessementably reactions are possible, in case of hyposeneithility reactions, treatment with
relations—subsctim must be discontinued immediately and delegate emergency resources must be initiated. Gefore beginning
starsment, it should be established without the patient bas a listency of hypersemethility expects to containing, to other
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aziments audition and sulfactam are eliminated via the kidneys, therefore, the does should be reduced according to the degree of renal aziment. Neurological sequelae, including tremos, renyclosystam, one consulhes status epilepticus, convolicios, concephisopatus imment. Neurological sequelae, including tremos, renyclosystam, one consulhes status epilepticus, convolicios, concephisopatus consulhaes accordant accor

ment with high doses of cephalosporins and nephrotoxic medicinal products such as aminoglycosides or potent semide) may adversely affect renal function.

Concurred treatment with high uses on separation of an extension of a section of the control of

significant inhibition of yochronous PASS enzymas in vitro.

Anabactam and craftamine aboved no in vitro cyclorhome PASS induction at clinically relevant concentrations. Availactam and conflatamine do not inhibit the major read or hepstet transporters in the clinically relevant exposure reago, therefore her conflatamine do not inhibit the major read or hepstet transporters in the clinically relevant exposure reago, therefore her conflatamine and availactam, and between conflatamine and availactam, and between conflatamine and availactam, and between conflatamine conflatamine and conflatamine conf

Pregnancy

Bill Jaumana There are no adequate and well-controlled studies or critatedine or adeatum in progrant women. Health Bill Jaumana There are no adequate and well-controlled studies or critical recommendation of the program of the program

studies have been performed in mire and rate at closes on to 40 times the human does and showed no evidence of

harm total retical and a sumanament.

Advantation was not interruptive in ratio or rabbits. In the rist, introvenous studies with 0, 250, 500 and 1000 mg/hg/day arbactam days of 27 showed not enembyofised tousing via doses up to 3000 mg/hg/day approximately 8 mess the human dose and the result of the result of the result of the retirement of the result of the result of the retirement of the result of the retirement of the

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Fertility
The effects of cettaris

ceftazidime. Animal studies with avibactam do not indicate narmiurements when respect to receiving 4.6 Effects on ability to drive and use medicines.

Undesirable effects may occur (e.g. dizziness), which may influence the ability to drive and use may

System Organ	Very	Common	Uncommon	Very rare	Unknown
Class	commo				
Infections and		Candidiasis (including	Clostridioides		
infestations		Vulvovaginal candidiasis and Oral candidiasis)	difficile colitis Pseudomembra		
		and Oral candidiasis)	n ous colitis		
Blood and	Coombs	Eosinophilia	Neutropenia		Agranulocytosi
lymphatic	direct	Thrombocytosis	Leukopenia		s Haemolytic
system disorders	test positive	Thrombocytopenia	Lymphocytosis		anaemia
Immune	positive				Anaphylactic
system					reaction
disorders					
Nervous		Headache Dizziness	Paraesthesia		
system disorders					
Gastrointestin		Diarrhosa Abdominal pain	Dysgeusia		
al disorders		,	- 7.0		
		Nausea Vomiting			
Hepatobiliary		Alanine aminotransferase			Jaundice
disorders		increased Aspartate aminotransferase			
		increased Blood alkaline			
		phosphatase increased			
		Gammaglutamyltransfera			
		se increased Blood lactate			
Skin and		dehydrogenase Increased Rash maculopapular			Toxic
subcutaneous		Urticarial Pruritus			epidermal
tissue					necrolysis
disorders					Stevens-
					Johnson
					syndrome Erythema
					multiforme
					Angioedema
					Drug Reaction
					with
					Eosinophilia and Systemic
					and Systemic Symptoms
					(DRESS)
Renal and			Blood	Tubulointerstiti	
urinary			creatinine	al nephritis	
disorders			increased Blood urea increased		
			Acute kidney		
			injury		
General		Infusion site thrombosis			
disorders and administration	l	Infusion site phlebitis Pyrexia	l	l	
site conditions	l	Ругехіа	l	l	
	on The safety	assessment in paediatric patien	ts is based on the safe	ety data from two tria	is in which 61 nation

Paediatric population The safety associament in paediatric patients is based on the safety data from two trials in which 61 (eaglet from 3 years to its best than 18 years) with All and 62 plastics with cell (faget from 1 may not to be test than 18 years). Overall, this safety profile in their 12 based strong patients was similar to that debury only in the ability population with this lading population with the lading population population with the lading population population with the lading population population. If the lading population population with the lading population with lading population w

fialysis period, 55% of the avibactam dose was removed.

acodynamic properties therapeutic group: Antibacterials for systemic use, other beta-lactam antibacterials, third-generation

cheatement descriptions between the processing of the process (PBPA), which had action is called be bacterial pepticogiycan cell wall synthesis following binding to penicillin binding process (PBPA), which had action is called by a called by the ming or covident adduct with the mem that is stable by hybridy. It inhibits to sharing called and called by Estimaterias and some called some process processing medical period by the called by t

destantion description religiation for membralisms not conjugate to prevent years of extraction deviations on cooler middle for experience of extraction of the conjugate to the

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(Billinations)
The terminal half-life (IX) of both ceftazidime and avbactam is about 2 h after intravenous administration. Ceftazidime is excreted
the terminal half-life (IX) of both ceftazidime and avbactam is about 2 h after intravenous administration. Ceftazidime is excrete interesting the continued in the terminal continued in the second with a result clearing the continued in the second with a result clearing the continued in the second in the second in addition to glomerular lifetation. Agreement per lifetation is additionated in the second in

Aviboctom

Non-clinical data reveal no special hazard for humans based on conventional studies of safety pharmacology, repeated dose

mensurance and review on special resistant to formation based on connectional studies of safety pharmacology, respected does interly operations. One of conceptions of the safety operations. One of the control of the

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Ceftazidime

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

azabicyclic (4.2.0) oct-2-ene-2-carboxylate.

Molecular Formula - C., H., N.O.S.



Avibactam sodium chemical name is sodium [(25.5R)-2-carbamovl-7-oxo-1.6-diazabicyclo [3,2.1] octan-6-vl] sulfate.

Molecular Formula - C7H10 N3O6SNa

Chemical Structure



8.1 Incompatibilities

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

8.2 Shelf life

8.3 Packaging information

CEETAWIN-AV Injection is available in 30 ml vial.

8.4 Storage and handling instruction

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 pass it on to others. It may harm them, even if their signs of illness are the

same as writes

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.

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

infection of the blood associated with infections of the abdomen jurinary tract, or pneumonia. What you need to know before you

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?

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 unit have asthma
- If you have problems with your heart or your circulation (such as high blood pressure).
- . 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 epilepsy.
- these apply to you, tell your doctor.

#### How to use Ceftazidime & Avihactam

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 antibiotic called chloramohenicol

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 & Avibactam 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:

Serious side effects 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 dizzy 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

Uncommon: (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, erythema multiforme or a condition known as DRESS, Drug Reaction with Eosinophilia and Systemic Symptoms) swelling under the skin, particularly lips and around the eyes

How should I store Ceftazidime & Avibactam Sodium Injection?

Store in a cool, dry & dark place, (8º C to 25º C.) 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

Mfd. by: Protech Telelinks (A WHO-GMP Certified Company) Mauza Ogli, Suketi Road, Kala Amb,

Distt. Sirmour-173030 (H.P.) Marketed by:

# windlas

Windlas Biotech Limited (A WHO GMP Certified Company) 40/1. Mohabewala Industrial Area. Dehradun-248110, Uttarakhand

Coffazirlime is a semisynthetic heta-lantam antihanterial drug It is the nentahydrate of ISR 7R 71.7.17.17 aminothiazol.4.v/l.2.17.

Molecular weight-636.6 Chemical Structure



#### Avibactam

Molecular weight-287.23



#### 8. PHARMACEUTICAL PARTICULARS

As on Carton

Store in a cool, dry & dark place, (8º C to 25º C.)

If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet.

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

infections of the stomach and gut (abdomen)

an infection of the lungs called "pneumonia" infections caused by harteria that other antibiotics may not be able to kill Ceftazidime & Avibactam is used in adults to treat

use Ceftazidime & Avibactam

Before using ceftazidime and avibactam injection, be sure to mention any of the following: Probenecid (Probalan, in Col-

- If you get migraines.
- . If you have any other medical condition

- If you ever have had an allergic reaction to oxytocin (sometimes given as a drip or injection during or after labour) If any of