

1. NAME OF THE MEDICINAL PRODUCT

Tygacil 50 mg powder for solution for infusion 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each 5 ml Tygacil vial contains 50 mg of tigecycline. After reconstitution, 1 ml contains 10 mg of tigecycline. For the full list of excinients, see section 6.1

3 PHARMACEUTICAL FORM

Powder for solution for infusion (powder for infusion).

Orange cake or powder.

4 CLINICAL PARTICULARS 4.1 Therapeutic indications

Tygacil is indicated in adults and in children from the age of eight years for the treatment of the following infections (see sections 4.4 and 5.1):

Complicated skin and soft tissue infections (cSSTI) excluding

Tygacil should be used only in situations where other alternative antibiotics are not suitable (see sections 4.4, 4.8 and 5.1).

Consideration should be given to official guidance on the appropriate use of antibacterial agents.

4.2 Posology and method of administration

diabetic foot infections (see section 4.4);

Complicated intra-abdominal infections (cIAI).

Adults
The recommended dose is an initial dose of 100 mg followed by 50 mg
every 12 hours for 5 to 14 days.

Children and adolescents (8 to 17 years of age)

Children aged 8 to <12 years: 1.2 mg/kg of tigecycline every 12 hours intravenously to a maximum dose of 50 mg every 12 hours for 5 to 14 days.

Adolescents aged 12 to <18 years: 50 mg of tigecycline every 12 hours for 5 to 14 days

duration of therapy should be guided by the severity, site of the ction, and the patient's clinical response.

Elderly
Nn dosage adjustment is necessary in elderly patients (see section 5.2).

nepatic impairment. No dosage adjustment is warranted in natients with mild to moderate. hepatic impairment (Child Pugh A and Child Pugh B).

In nationts (including paediatrics) with severe henotic impairment In patients (including paediatris) with severed repair in inpartnets.

(Child Pugh C), the dose of tigecycline should be reduced by 50 %. Adult dose should be reduced to 25 mg every 12 hours following the 100 mg loading dose. Patients with severe hepatic inpartment (Child class antibiotics are structurally similar to tetracycline class and though the control of th Pugh C) should be treated with caution and monitored for treatment response (see sections 4.4 and 5.2).

Renal impairment

No dosage adjustment is necessary in patients with renal impair
or in patients undergoing haemodialysis (see section 5.2).

Paediatric population
The safety and efficacy of Tygacil in children under 8 years of age have not been established. No data are available. Tygacil should not be used in children aged under 8 years because of teeth discolouration (see sections 4.4 and 5.1).

Method of administration

Tigecycline is administered only by intravenous infusion over 30 to 60 minutes (see sections 4.4 and 6.6). Tigecycline should be preferably administered over a 60-minute length of infusion in paediatric patients (see section 4.4).

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Patients hypersensitive to tetracycline class antibiotics may be hypersensitive to tigecycline.

4.4 Special warnings and precautions for use

In clinical studies in complicated skin and soft tissue infections (cSSTI), complicated intra-abdominal infections (cIAI), diabetic foot infections, nosconial pneumonia and studies in resistant pathogens, a numerically higher mortality rate among tigecycline treated patients has been observed as compared to the comparator treatment. The causes of these findings remain unknown, but poorer efficacy and safety than the study comparators cannot be ruled out.

Superinfection

In clinical trials in cIAI patients, impaired healing of the surgical wound has been associated with superinfection. A patient developing impaired healing should be monitored for the detection of superinfection (see

Patients who develop superinfections, in particular nosocomial pneumonia, appear to be associated with poorer outcomes. Patients should be closely monitored for the development of superinfection. If a focus of rifection other than cSSTI or cIAI is identified after initiation of tigecycline therapy consideration should be given to instituting alternative antibacterial therapy that has been demonstrated to be efficacious in the treatment of the specific type of infection(s) present.

Ananhylaxis

Anaphylaxis/anaphylactoid reactions, potentially life-threatening, have eported with tigecycline (see sections 4.3 and 4.8).

Henatic failure

Cases of liver injury with a predominantly cholestatic pattern have been Cases of liver injury with a predominantity cholestatic pattern have been reported in patients receiving tigecycline treatment, including some cases of hepatic failure with a fatal outcome. Although hepatic failure may occur in patients treated with tigecycline due to the underlying conditions or concentral products, a possible contribution of tigecycline should be considered (see section 4.8).

Tetracycline class antibiotics

class antibiotics. Tigecycline may have adverse reactions similar to tetracycline class antibiotics. Such reactions may include photosensitivity, pseudotumor cerebri, pancreatitis, and anti-anabolic

action which has led to increased BUN, azotaemia, acidosis, and hyperphosphataemia (see section 4.8).

Pancreatitis

Acute pancreatitis, which can be serious, has occurred (frequency Acute pancreatitis, which can be serious, has occurred (frequency monoming) in association with tigocycline freatment (see Section 4.8), and control of the section 4.8) and the section 4.8) are section 4.8) and the section 4.8) are set of the section 4.8) and the section 4.8) are set of the section 4.8 and the section 4.8 are set of the section 4.8 and the section 4.8 are set of the section 4.8 a

Coagulopathy

Underlying diseases

For instructions on reconstitution & dilution of the medicinal product Tigecycline may prolong both prothrombin time (PT) and activated Igacycline may prolong both protrombin time (P1) and activated partial thrombopstain time (B711, Additionally, hypotheniogenemia has been reported with the use of tige-cycline. Therefore, blood congulation parameters such as TF or other suitable anticogulation test, including blood throngen, should be monitored prior to treatment initiation with tigecycline and regularly while on treatment. Special care is recommended in seriously ill patients and in patients also using anticoggulants (see section 4.5).

Experience in the use of tigecycline for treatment of infections in

In clinical trials in cSSTI, the most common type of infection in In clinical trials in CSSTI, the most common type of infection in legocycline treated-patients was callisis (86.8%), followed by major abscesses (24.0%), Patients with seview underlying diseases, such under infections, or patients that had infections requiring longer than 14 days of treatment (for example, necrotizing fascilist), were not avoided. A limited number of patients were enrolled with or-morbid enrolled number of patients were enrolled with or-morbid enrolled. The patients with the complex of the patients of the patients with complex of the patients with calling such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with reading such patients. The results in a large study in patients with the patient

in these patients (see section 4.1).

In clinical trials in AdJ, the most common type of infection in tigecyclinic treated patients was complicated appendicitis (6.0.3 %), followed by other diagnose less commonly reported such as complicated appendix of the complication of the complica

Consideration should be given to the use of combination antibacteria therapy whenever tigecycline is to be administered to severely patients with cIAI secondary to clinically apparent intestinal perforation or patients with incipient sepsis or septic shock (see section 4.8).

The effect of cholestasis in the pharmacokinetics of tigecycline has not been properly established. Billary excretion accounts for approximately 50 % of the total tigecycline excretion. Therefore, patients presenting with cholestasis should be closely monitored.

Pseudomembranous colitis has been reported with nearly all antibacterial agents and may range in severity from mild to life contraceptives less effective. Iteraterian, Therefore, it is important to consider this diagnosis in patients who present with diarrhose during or subsequent to the administration of may arrhotacterial agent fees exclored. Also, experiment of the contractive of the properties of the contractive of the cont

The use of tigecycline may result in overgrowth of non-susceptible organisms, including fungi. Patients should be carefully monitored during therapy (see section 4.8).

Results of studies in rats with tigecycline have shown bone discolouration. Tigecycline may be associated with permanent tooth discolouration in humans if used during tooth development (see section 4.8)

Paediatric population

Clinical experience in the use of tigecycline for the treatment of infections in paediatric patients aged 8 years and older is very limited (see sections 4.8 and 5.1). Consequently, use in children should be restricted to those clinical situations where no alternative antibacterial therapy is available.

Nausea and vomiting are very common adverse reactions in children and adolescents (see section 4.8). Attention should be paid to possible and adolescents (see section 4.8). Attention should be paid to possible dehydration. Tigecycline should be preferably administered over a 60-minute length of infusion in paediatric patients.

Abdominal pain is commonly reported in children as it is in adults. Abdominal pain may be indicative of pancreatitis. If pancreatitis develops, treatment with tigecycline should be discontinued. Liver function tests, coagulation parameters, haematology parameters amylase and lipase should be monitored prior to treatment initiation with tigecycline and regularly while on treatment.

Tygacil should not be used in children under 8 years of age due to the lack of safety and efficacy data in this age group and because tigecycline may be associated with permanent teeth discolouration (see section 4.8).

Excipient information

Tygacil contains less than 1 mmol sodium (23 mg) per 5 ml of solution. Patients on low sodium diets can be informed that this medicinal product is essentially 'sodium free'.

4.5 Interaction with other medicinal products and other forms of

Interaction studies have only been performed in adults.

interaction studies nave only een performed in adults.

Concomitant administration of tigecycline and warfarin (25 mg single-flose) to healthy subjects resulted in a decrease in cleaner of the warfar and 25 %, and an increase in ALC of Hwarfart and 35 % and 25 %, and an increase in ALC of Hwarfart and 35 % and 25 %, and an increase in ALC of the state of

Tigeocycline is not extensively metabolised. Therefore, clearance of tigeocycline is not extensively metabolised. Therefore, clearance of tigeocycline is not expected to be affected by active substances that inhibit or induce the activity of the CVP450 isoforms. In vitro, tigeocycline is neither a competitive inhibitor nor an irreversible inhibitor of CVP450 errorms (see section 5.2).

Tigecycline in recommended dosage did not affect the rate or extent of absorption, or clearance of digoxin (0.5 mg followed by 0.25 mg daily) when administered in healthy adults. Digoxin did not affect the pharmacokinetic profile of tigecycline. Therefore, no dosage adjustment is necessary when tigecycline is administered with digoxin.

Concominant use or dispersional and calcinetural influence such as such as tacrolimus or cyclosporine may lead to an increase in serum trough concentrations of the calcineurin inhibitors. Therefore, serum concentrations of the calcineurin inhibitor should be monitored during treatment with tigecycline to avoid drug toxicity.

Based on an *in vitro* study tigecycline is a P-gp substrate. Co-administration of P-gp inhibitors (e.g., ketoconazole or cyclosporine) or P-gp inducers (e.g., rifampicin) could affect the pharmacokinetics of tigecycline (see section 5.2).

4.6 Fertility, pregnancy and lactation

Pregnancy

There are no or limited amount of data from the use of tinecycline in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). The potential risk for humans is unknown. As it is (see section 5.3). The potential risk for humans is unknown. As it is known for tetracytine class artibiotics, slipscycline may also induce permanent derital defects (discolouration and enamed defects) and a second control of the defects and a second control of the defect of th

Breast-feeding

It is unknown whether tigecycline/metabolites are excreted in human It is unknown whether tigecycline/metabolites are excreted in human milk. Available data in animals have shown excretion of tigecycline/ metabolites in milk (see section 5.3). A risk to the newborns/infants cannot be excluded. A decision must be made whether to discontinue breast-feeding or to discontinue/abstain from tigecycline therapy taking into account the benefit of breast-feeding for the child and the benefit produced in the child and the benefit of the second to the child and the benefit of the child and the child of therapy for the woman.

The affects of tinecycline on fartility in humans have not been studied Nonclinical studies conducted with tigecycline in rats do not indicate namful effects with respect to fertility or reproductive performance. In female rats, there were no compound-related effects on ovaries or outside the control of the contro

4.7 Effects on ability to drive and use machines

Dizziness may occur and this may have an effect on driving and use of machines (see section 4.8).

4.8 Undesirable effects Summary of safety profile

The total number of cSSTI and cIAI patients treated with tigecycline in Phase 3 and 4 clinical studies was 2,393.

In clinical trials, the most common medicinal product-related treatment (13 %), which usually occurred early (on treatment days 1-2) and were generally mild or moderate in severity.

Adverse reactions reported with tigecycline, including clinical trials and post-marketing experience, are tabulated below.

System Organ Class	Very Common ≥ 1/10	Common ≥ 1/100 to < 1/10	Uncommon ≥ 1/1,000 to < 1/100	Rare ≥ 1/10,000 to < 1/1,000	Frequency not known (cannot be estimated from the available data)
Infections and infestations		sepsis/septic shock, pneumonia, abscess, infections			
Blood and lymphatic system disorders		prolonged activated partial thromboplastin time (aPTT), prolonged prothrombin time (PT)	thrombocytopenia, increased international normalised ratio (INR)	hypofibrinogenaemia	
Immune system disorders					anaphylaxis/ anaphylactoid reactions* (see sections 4.3 and 4.4)
Metabolism and nutrition disorders		hypoglycaemia, hypoproteinaemia			
Nervous system disorders		dizziness			
Vascular disorders		phlebitis	thrombophlebitis		
Gastrointestinal disorders	nausea, vomiting, diarrhoea	abdominal pain, dyspepsia, anorexia	acute pancreatitis (see section 4.4)		
Hepatobiliary disorders		elevated aspartate aminotransferase (AST) in serum, and elevated alanine aminotransferase (ALT) in serum, hyperbilirubinaemia	jaundice, liver injury, mostly cholestatic		hepatic failure* (see section 4.4)
Skin and subcutaneous tissue disorders		pruritus, rash			severe skin reactions, including Stevens- Johnson Syndrome*
General disorders and administration site conditions		impaired healing, injection site reaction, headache	injection site inflammation, injection site pain, injection site oedema, injection site phlebitis		
Investigations *ADR identified no		elevated amylase in serum, increased blood urea nitrogen (BUN)			

Description of selected adverse reactions

Antibiotic class effects

Pseudomembranous colitis which may range in severity from mild to life threatening (see section 4.4).

Overgrowth of non-susceptible organisms, including fungi (see section 4.4).

Tetracycline class effects

Glycylcycline class antibiotics are structurally similar to tetracycline class antibiotics. Tetracycline class adverse reactions may include photosensitivity, pseudotumour cerebri, pancreatitis, and anti-anabolic action which has led to increased BUN, azotaemia, acidosis, and hyperphosphatemia (see section 4.4).

Tigecycline may be associated with permanent tooth discolouration if used during tooth development (see section 4.4).

In Phase 3 and 4 cSSTI and cIAI clinical studies, infection-related serious adverse reactions were more frequently reported for subjects treated with tigecycline (7.1 %) vs comparators (5.3 %). Significant differences in sepsis/septic shock with tigecycline (2.2 %) vs comparators

AST and ALT abnormalities in tigecycline-treated patients were reported more frequently in the post therapy period than in those in comparator treated patients, which occurred more often on therapy. In all Phase 3 and 4 (cSSTI and cIAI) studies, death occurred in 2.4 % (54/2216) of patients receiving tigecycline and 1.7 % (37/2206) of

Paediatric population

Vary limited safety data were available from two PK studies (see section 5.2). No new or unexpected safety concerns were observed with

In an open-label, single ascending dose PK study, the safety of tigecycline was investigated in 25 children aged 8 to 16 years who recently recovered from infections. The adverse reaction profile of tigecycline in these 25 subjects was generally consistent with that in adults.

The safety of tigecycline was also investigated in an open-label, ascending multi-dose PK study in 58 children aged 8b o1 1 years with CSST (in=15, 0.4 in=24) or community-acquired poweronica (n=19). The adverse reaction profile of tigecycline in these 58 subjects was generally consistent with that in adults, with the exception of nauses (48.3 %), vomiting (6.6 %) and elevated lipses in serum (6.9 %) which were seen at greater frequencies in children than in adults.

Reporting of suspected adverse reactions

Secreting suspected adverse reactions after marketing authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare profe are asked to report any suspected adverse reactions according to

No specific information is available on the treatment of overdosage. Intravenous administration of tigecycline at a single dose of 300 mg over 60 minutes in healthy volunteers essulted in an increased incidence of nausea and vomiting. Tigecycline is not removed in significant quantities by haemodialysis.

5 PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antibacterials for systemic use, tetracyclines. ATC code: J01AA12.

Mechanism of action

Tigecycline, a glycylcycline antibiotic, inhibits protein translation in bacteria by binding to the 30S ribosomal subunit and blocking entry of amino-acvl tRNA molecules into the A site of the ribosome. This prevents incorporation of amino acid residues into elongating peptide

In general, tigecycline is considered bacteriostatic. At 4 times the minimum inhibitory concentration (MIC), a 2-log reduction in colony counts was observed with tigecycline against Enterococcus spp., Staphylococcus aureus, and Escherichia coli.

Ingesycline is able to overcome the two major tetracycline resistance mechanisms, ribosomal protection and efflux. Cross-resistance between tige-cyline and minocycline-resistant sloadase among the Enterobacterales due to multi-drug resistance (MDR) efflux pumps has been shown. There is no target-based cross-resistance between tige-cycline and most classes of artibilities.

Tigeocyline is unineau desso of anisonosci. Tigeocyline is unineau de la Christope de la Christope de la Christope and Peaudomoras aeruginosa. Pathogens of the pumps of Protesse and Peaudomoras aeruginosa. Pathogens of the surface and peaudomoras aeruginosa. Pathogens of the Enterobacteria automoras de la Christope d

Antibacterial activity in combination with other antibacterial agents In in vitro studies, antagonism was rarely observed between tigecycline and other commonly used antibiotic classes.

Minimum inhibitory concentration (MIC) breakpoints established by the European Committee on Antimicrobial Susceptibility Testing (EUCAST)

EUCAST Breakpoints					
Pathogen	Minimal Inhibitory Concentration (MIC)				
	breakpoint (mg/L)				
	≤S (Susceptible)	>R (Resistant)			
Enterobacterales:	≤ 0.5	> 0.5			
Escherichia coli and					
Citrobacter koseri: (t)					
Staphylococcus spp.	≤ 0.5	> 0.5			
Enterococcus spp.	≤ 0.25	> 0.25			
Streptococcus	≤ 0.125	> 0.125			
groups A, B, C and G					

"For other Enterobacterales, the activity of tigecycline varies from insufficient in Proteus spp., Morganella morganii and Providencia spp. to variable in other species.

To variable in order species.

For anaerobic bacteria there is clinical evidence of efficacy in polymicrobial intra-abdominal infections, but no correlation between polymicrobial intra-abdominal infections, but no correlation between for consistence of the polymicrobial polymicrobi

There is limited evidence of the clinical efficacy of tigecycline against entercocci. However, polymicrobial intra-abdominal infections have shown to respond to treatment with tigecycline in clinical trials.

Susceptibility

The prevalence of acquired resistance may vary geographically and The prevalence of acquired resistance trialy very geographically and with time for selected species, and local information on resistance is desirable, particularly when treating severe infections. As necessary, expert advice should be sought when the local prevalence of resistance is such that the utility of the agent in at least some types of infections is questionable.

Pathogen Commonly Susceptible Species

Gram-positive Aerobes

ptococcus anginosus group* (includes S. anginosus, termedius and S. constellatus)

ptococcus pyogenes idans group streptococci Gram-negative Aerobes Citrobacter freundii* Citrobacter koseri

Anaerobes Clostridium perfringens†

Peptostreptococcus spp.1

Species for which acquired resistance may be a problem

m-negative Aerobes netobacter baumanni nterobacter cloacae Klebsiella aerogenes Klebsiella prieumoniae* Stenotrophomonas maltophilia Anaerobes Recteroides fragilis group†

Gram-negative Aerobes Morganella morganii Proteus spp. Providencia spp. Serratia marcescens

denotes species against which it is considered that activity has been satisfactorily demonstrated in clinical studies. see section 5.1, *Breakpoints* above.

No significant effect of a single intravenous dose of tigecycline 50 mg or 200 mg on QTc interval was detected in a randomized, placebo- and active-controlled four-arm crossover thorough QTc study of 46 healthy

Pandiatria population

In an open-label, according multiple-dose study, 39 children aged In an open-label, ascending multiple-dose study, 39 children aged 8 to 11 years with clAl or cSSTI were administered tigscycline (0.75, 1, or 1.25 mg/kg). All patients received IV tiges/cycline for a minimum of 3 consecutive days to a maximum of 14 consecutive days, with the option to be switched to an oral antibiotic on or after day 4.

Clinical cure was assessed between 10 and 21 days after the administration of the last dose of treatment. The summary of clinical response in the modified intent-to-treat (mITT) population results is shown in the following table.

	Clinical Cure, r	mITT Population	
	0.75 mg/kg	1 mg/kg	1.25 mg/kg
Indication	n/N (%)	n/N (%)	n/N (%)
cIAI	6/6 (100.0)	3/6 (50.0)	10/12 (83.3)
cSSTI	3/4 (75.0)	5/7 (71.4)	2/4 (50.0)
Overall	9/10 (90.0)	8/13 (62 0 %)	12/16 (75 M)

Efficacy data above shown should be viewed with caution as concomitant antibiotics were allowed in this study. In addition, the small number of patients should also be taken into consideration.

5.2 Pharmacokinetic properties

Absorption

Tigecycline is administered intravenously and therefore has 100 % biggsyallability

Distribution

Liesationation The In vitro plasma protein binding of tigecycline ranges from approximately 71 % to 89 % at concentrations observed in clinical studies 0.11 to 1.0 morg/mll. Arimal and furnan pharmacolinetis studies have demonstrated that tigecycline readily distributes to tissues. When the control of the

No data are available on whether tigecycline can cross the bloodbrain barrier in numans. In clinical pharmacology studies using the therapeutic dosage regimen

of 100 mg followed by 50 mg q12h, serum tigecycline steady-state C_{max} was 866±233 ng/ml for 30-minute infusions and 634±97 ng/ml for 60-minute infusions. The steady-state AUC_{n,170} was 2349±850 ng•h/ml.

Biotransformation

On average, it is estimated that less than 20 % of tigecycline is On average, it is estimated that less than 20 % of ingecycline is metabolised before excretion. In healthy male volunteers, following the administration of "iC-tigecycline, unchanged tigecycline was the primary "iC-labelled material recovered in urine and faces, but a glucuronide, an N-acetyl metabolite and a tigecycline epimer were

In vitro studies in human liver microsomes indicate that tinecyclin In vitro studies in human liver microsomes indicate that tigecycline does not inibit metabolism mediated by any of the following 6 cytochrome P450 (CYP) isoforms: 1A2, 2C8, 2C9, 2C9, 2C19, 2D6, and 3A4 by competitive inibition. In addition, tigecycline did not show NADPH-dependency in the inibition of CYP2C9, CYP2C19, CYP2C9 and CYP3A, suggesting the absence of mechanism-based inibition of the competition of

Elimination

The tecovery of the total radioactivity in factors and uniter lookwing administration of "C-ligecycline indicates that 59 % of the dose is eliminated by bilitary/faccal excretion, and 33 % is excreted in urine. Overall, the primary route of elimination for tigecycline is bilitary excretion of unchanged tigecycline. Glucuronidation and renal excretion of unchanged tigecycline are soundary notices.

The total clearance of tinecycline is 24 l /h after intravenous infusion Renal clearance is approximately 13 % of total clearance. Tigecycline shows a polyexponential elimination from serum with a mean terminal elimination half-life after multiple doses of 42 hours although high interindividual variability exists.

interndividual variabitity exists. In vitro studies using Gao-2 cells indicate that tigscycline does not inhibit digoxin flux, suggesting that tigscycline is not a P-glycoprotein (P-gl) inhibits. This in vitro information is consistent with the lack of effect of tigscycline on digoxin clearance noted in the in vivo drug interaction study described loove legs section 4, 3 will valve in the properties of the section of the properties of the p

Special populations

Henatic impairment

regaze mparment
The single-dose point mile happens disposition of tigacycline was not. The single-dose point mile happens in plantine happens of the however, systemic clearance of tigacycline was reduced by 25 % and 55 % and the hall-liffe of tigacycline was prolonged by 23 % and 43 % in patients with moderate or severe hepatic impairment (Child Pugh B and C), respectively lese section 4.2).

Herbai impairment The single dose pharmacokinetic disposition of tigecycline was not altered in patients with renal insufficiency (creatinine clearance <30 ml/min, n=6). In severe renal impairment, AUC was 30 % higher than in subjects with normal renal function (see section 4.2).

Eiderly

No overall differences in pharmacokinetics were observed between healthy elderly subjects and younger subjects (see section 4.2).

Paeclistric population
Tigecycline pharmacokinetics was investigated in two studies. The first
study enrolled children aged 8-16 years (n=24) who received single
doses of tigecycline (0.5. 1, or 2 mg/kg, up to a maximum dose of
50 mg, 100 mg, and 150 mg, respectively) administeried intravenously
over 30 minutes. The second study was performed in children aged
8 to 11 years who received multiple doses of tigecycline (0.75. 1, 1).

Dose Normalized to 1 mg/kg Mean ± SD Tigecycline Cmax and AUC in Children						
N	Cmax (ng/mL)	AUC (ng+h/mL				
8	3881 ± 6637	4034 ± 2874				
16	8508 ± 11433	7026 ± 4088				
42	1911 ± 3032	2404 ± 1000				
	N 8 16 42	N Cmax (ng/mL) 8 3881 ± 6637 16 8508 ± 11433				

The target AUC_{0-12h} in adults after the recommended dose of 100 mg loading and 50 mg every 12 hours, was approximately 2500 ng•h/mL

Population PK analysis of both studies identified body weight as Population PK analysis of both studies identified body weight as a covariate of tigeocycline clearance in children aged 6 years and other nature of the part of the control of the control

Higher Cmax values than in adult patients were observed in several children in these studies. As a consequence, care should be paid to the rate of infusion of tigecycline in children and adolescents.

Race There were no differences in the clearance of tigecycline based on race.

Weight
Clearance, weight-normalised clearance, and AUC were not appreciably
different among patients with different body weights, including those
weighing ≥125 kg. AUC was 24 % lower in patients weighing ≥125 kg.
No data is available for patients weighing 140 kg and more

5.3 Preclinical safety data

In repeated dose toxicity studies in rats and dogs, lymphoid depletion. In repeated dose toxicity studies in rats and dogs, lympnou cepierion/ artophy of lymph nodes, splean and thymus, decreased cythrocytes, reliculocytes, leukocytes, and platelets, in association with bone marrow hypocliularity, and adverse renal and gastrointestinal effects have been seen with tigecycline at exposures of 8 and 10 times the human dally dose based on AUC in rats and dogs, respectively. These alterations were shown to be reversible after two weeks of dosing.

Bone discolouring was observed in rats which was not reversible after two weeks of dosing.

Results of animal studies indicate that tigecycline crosses the placenta and is found in foetal tissues. In reproduction toxicity studies, decreased foetal weights in rats and rabbits (with associated delays in ossification) total weights in rats and rabbits (with associated delays in cossification) have been observed with tige-cycline. Tige-cycline was not transpenic at a construction of the construction of the cycline to the cycline the cycline that are opposured up to 4.7 times the human fally dose based on AUC. In female rats, there were no compound-related effects on overdiscorosest us cycles at exposures up to 4.7 times the human daily dose based on AUC.

Results from animal studies using 14C-labelled tinecycline indicate that results from animal studies using "C-labelled tigecycline indicate the tigecycline is excreted readily via the milk of lactating rats. Consister with the limited oral bioavailability of tigecycline, there is little or n

Bolus intravenous administration of tigecycline has been associated with a histamine response in animal studies. These effects were observed at exposures of 14 and 3 times the human daily dose based on the AUC in rats and dogs respectively.

No evidence of photosensitivity was observed in rats following

6 PHARMACELITICAL PARTICULARS

6.1 List of excinients

Lactose monohydrate

Hydrochloric acid Sodium hydroxide (for pH adjustment)

6.2 Incompatibilities

The following active substances should not be administered simultaneously through the same Y-site as tigecycline: Amphotericin B, amphotericin B lipid complex, diazepam, esomeprazole, omeprazole and intravenous solutions that could result in an increase of pH above 7.

This medicinal product must not be mixed with other medicinal products except those mentioned in section 6.6. 6.3 Shelf life

Do not use Tygacil after the expiry date which is stated on the <u>carton / Vial label</u> after EXP:. The expiry date refers to the last day of that month. Once reconstituted and diluted in the bag or other suitable infusion container (e.g. glass bottle), tigecycline should be used immediately.

6.4 Special precautions for storage

Store below 30°C

For storage conditions after reconstitution of the medicinal product, see section 6.3.

6.5 Nature and contents of container

5 ml Type 1 clear glass vials fitted with grey butyl rubber stoppers and snap-off aluminium crimp seals. Tygacil is distributed in a ten vial tray pack.

6.6 Special precautions for disposal and other handling

The powder should be reconstituted with 5.3 ml of sodium chloride The powder should be reconstituted with 5.3 ml of sodium chloride paymin (10,9% solution for injection, extense 50 mg/m) (7,9% solution for injection, or Lactated Flinger's solution for injection to achieve a concentration of 10 mg/ml of tige-poticine. The vial should be gently swived until the medicinal product is dissolved. Thereafter, 5 ml of the reconstituted solution should be immediately withdrawn from the vial part of the contraction of th

For a 100 mg dose, reconstitute using two vials into a 100 ml intravenous bag or other suitable infusion container (e.g., glass bottle). Note: The vial contains a 6 % overage. Thus, 5 ml of reconstituted solution is equivalent to 50 mg of the active substance.

uquivalent to su mg of the active substance. The reconstituted solution should be yellow to orange in colour; if not, the solution should be discarded. Parenteral products should be inspected visually for particulate matter and discolouration (e.g., green or black) prior to administration.

or 1.25 mg/kg up to a maximum dose of 50 mg) every 12 hours administered intravenous year 30 minutes. No loading dose was extensitived in these studies. Pharmacolizerity paramacolizerity parama Igey-cline should be administered infravenously through a dedicated line or through a V-stale. If the same intravenous line is used for sequential infusion of several active substances, the line should be flushed before and after infusion of tigey-cline with either sodium chloride 9 mg/ml (0.3 %) solution for injection or dextrose 50 mg/ml (5 %) solution for injection. Injection should be made with an initiasion solution compatible with tige-cycline and any other medicinal product(s) via this common line (see section 6.2)

This medicinal product is for single use only any unused medicinal local requirements.

Compatible intravenous solutions include: sodium chloride 9 mg/ml (0.9 %) solution for injection, dextrose 50 mg/ml (5 %) solution for injection, and Lactated Ringer's solution for injection.

When administered through a Y-site, compatibility of figecycline diluted in sodium chloride 0.9 % for injection is demonstrated with the following medicinal products or dilutents: amikacin, dobutamine, doparmise HCI, gertamicin, haloperidol, Lactated finger's, lidocaime HCI, metoclopramide, morphine, norepinephrine, piperacillin/tazobatami (EDTA formulation), potassium chloride, propotol, ranitidine HCI, theophylline, and tobramycin.

Keep out of the sight and reach of children.

Medicines should not be disposed of via wastewater or household waste. Ask your pharmacist how to dispose of medicines no longer required. These measures will help to protect the environment.

7. FURTHER INFORMATION

Marketing Authorisation Holder Pfizer Europe MA EEIG Boulevard de la Plaine 17 1050 Bruxelles

Manufacture Manufacturer Wyeth Lederle S.r.l. Via Franco Gorgone Z.l. 95100 Catania (CT)

8. DATE OF REVISION OF THE TEXT October 2022

THIS IS A MEDICAMENT

Medicament is a product which affects your health and its consumption contrary to instructions is dangerous for you. Follow strictly the doctor's prescription, the method of use and the instructions of the Pharmacist who sold the medicament. The doctor and the Pharmacist are experts in medicines, their

benefits and risks.

Do not by yourself interrupt the period of treatment prescribed.

Do not repeat the same prescription without consulting your doctor.

Keep all medicaments out of reach and sight of children

Council of Arab Health Ministers