		¹⁰⁰⁰⁰⁰⁰¹⁰²¹⁸⁰ 228 MG/5 ml and 457 MG/5 ml -	Children aged 2 months to 2 years Children under 2 years should be d	, , , , , , , , , , , , , , , , , , ,		warfarin and pre	e there are rare cases of inc escribed a course of amoxici
AUGIVIENTIN	SUSPENSION			AUGMENTIN suspension 457 mg/s	5 ml	1 Contraction of the second	carefully monitored with the
	Mixed fr	uit flavour	Weight (kg)	25/3.6 mg/kg/day	45/6.4 mg/kg/day	Pregnancy and	
		- Potassium clavulanate		(ml / twice daily *)	(ml / twice daily *)		tudies in animals (mice and ra
	Amoxiciiin trinyurate	- Polassium clavulanale	2	0.3	0.6		ngle study in women with p
			3	0.5	0.8		eatment with AUGMENTIN meatment with AUGMENTIN measures use should be avoided i
			4	0.6	1.1	physician.	
			5	0.8	1.4		nay be administered during t
			6	0.9 1.1	1.7 2.0		f trace quantities in breast m
	QUALITATIVE AND QUANT		1 8	1.1	2.0	Effects on Abil	lity to Drive and Use Machi
			9	1.4	2.5	Adverse effects	on the ability to drive or op
		3 mg/5 ml contains 200 mg amoxicillin (as amoxicillin trihydrate) as potassium clavulanate) per 5 ml.	10	1.6	2.8	Adverse React	ions
		7 mg/5 ml contains 400 mg amoxicillin (as amoxicillin trihydrate)	11	1.7	3.1	Data from large	clinical trials were used to c
		s potassium clavulanate) per 5 ml.	12	1.9	3.4		other undesirable effects (i.e
	PHARMACEUTICAL FORM	,	13	2.0	3.7		eporting rate rather than a tr
		on in water, at time of dispensing, to form an oral sugar free	14 15	2.2 2.3	3.9 4.2	v	onvention has been used for
	suspension.	,				very commo	
	CLINICAL PARTICULARS		and contents of the container.	mg/5 mi 35 mi and 70 mi presentations may	/ be supplied with a dosing device - See Nature		1/100 and <1/10 1 >1/1000 and <1/100
	Indications			ALIGMENTIN suspension 228 mg/5 ml and	457 mg/5 ml to make dosage recommendations		000 and <1/1000
		in accordance with local official antibiotic-prescribing guidelines	for children under 2 months old.	TO GRAFTING SUSPENSION 220 Mg/5 MI dhu	Tor mare usage recommendations	very rare <1	
	and local susceptibility data.		Renal Impairment			Infections and in	
		r twice daily oral dosing, is indicated for short term treatment of		nin no adjustment in dosage is required. For	children with a GFR of <30 ml/min AUGMENTIN	Common	Mucocutaneous candi
		ant beta-lactamase producing strains are suspected as the cause.	suspension 228 mg/5 ml and 457 r				phatic system disorders
,	n alone should be considered.		Infants with immature kidney functi	n		Rare	Reversible leucopenia
	ions (including ENT) e.g. recurren			ction AUGMENTIN suspension 228 mg/5 ml	and 457 mg/5 ml are not recommended.	Very rare	Reversible agranulocy
		hronic bronchitis, lobar and bronchopneumonia.	Hepatic Impairment			Immune system	1 disorders
	ystitis, urethritis, pyelonephritis		Dose with caution; monitor hepatic	function at regular intervals. There is, as yet,	insufficient evidence on which to base a dosage	Very rare	Angioneurotic oedema
	s e.g. cellulitis, animal bites. dental abscess with spreading ce		recommendation.		-	Nervous system	n disorders
		e (see Pharmacological Properties. Pharmacodynamics for further	Administration			Uncommon	Dizziness, headache
		where available, and microbiological sampling and susceptibility	To minimise potential gastrointestin	al intolerance, administer at the start of a me	eal. The absorption of AUGMENTIN is optimised	Very rare	Reversible hyperactivi
sting performed where nec		mere available, and microbiological sampling and susceptibility			the indication and should not exceed 14 days		in those receiving high
01	,	s in conjunction with AUGMENTIN susceptible beta-lactamase-		rted parenterally and continued with an oral p	preparation.	Gastrointestinal	uisorders
roducing organisms may be	e treated with AUGMENTIN suspe	nsion 228 mg/5ml and 457 mg/5 ml. These infections should not	Contraindications	and the state of the second	sta la stance a la sub-siliare de la della della	Adults:	Diarrhocc
1	er antibiotic resistant to beta-lacta	mases.			eta-lactams, e.g. penicillins and cephalosporins. TIN-associated jaundice/hepatic dysfunction.	Very common Common	Diarrhoea Nausea, vomiting
osage and Administration			Warnings and Precautions	patients with a previous history of AUGMEN	mis-associated jaunuloe/nepatic dystunction.	Children:	riadooa, vorniang
he usual recommended dai			e e e e e e e e e e e e e e e e e e e	MENTIN caroful anguing should be made or	prograina providus hyporsonsitivity reactions to	Common	Diarrhoea, nausea, vo
		spiratory tract infections e.g. recurrent tonsillitis, lower respiratory	penicillins, cephalosporins or other		oncerning previous hypersensitivity reactions to	All populations:	
infections and skin and s		ns (upper respiratory tract infections e.g. otitis media and sinusitis,			been reported in patients on penicillin therapy.		often associated with higher
	fections e.g. bronchopneumonia a		These reactions are more likely to o	occur in individuals with a history of penicillin	hypersensitivity (see Contraindications).		t the start of a meal.
he tables below give guidar	a		AUGMENTIN should be avoided if	infectious mononucleosis is suspected since	the occurrence of a morbilliform rash has been	Uncommon	Indigestion
hildren over 2 years			associated with this condition follow	wing the use of amoxicillin.		Very rare	Antibiotic-associated
,				lly result in overgrowth of non-susceptible or			Antibiotic-associated
5/3.6 mg/kg/day	2 - 6 years	5.0 ml AUGMENTIN suspension 228 mg/5 ml			arely in patients receiving AUGMENTIN and oral		Black hairy tongue
	(13 - 21 kg)	twice daily or 2.5 ml AUGMENTIN suspension			ants are prescribed concurrently. Adjustments in		Superficial tooth disco prevent tooth discolou
		457 mg/5 ml twice daily.		y be necessary to maintain the desired level of		Hepatobiliarv di	
	7 - 12 vears	10.0 ml AUGMENTIN suspension 228 mg/ 5 ml		e been observed in some patients receiving TIN should be used with caution in patients v	AUGMENTIN. The clinical significance of these	Uncommon	A moderate rise in AS
	(22 - 40 kg)	twice daily or 5.0 ml AUGMENTIN suspension			reported rarely. Signs and symptoms may not	GROOMINON	the significance of the
		457 mg/5 ml twice daily	become apparent for up to six wee		reported rately. Signs and symptoms may not	Very Rare	Hepatitis and cholesta
				UGMENTIN suspension 228 mg/5 ml and 45	7 mg/5 ml are not recommended		have been reported predom
15/6.4 mg/kg/day	2 - 6 years	10.0 ml AUGMENTIN suspension 228 mg/5 ml			y, predominantly with parenteral therapy. During		ave been very rarely reporte
	(13 - 21 kg)	twice daily or 5.0 ml AUGMENTIN suspension			quate fluid intake and urinary output in order to		ptoms usually occur during
		457 mg/5 ml twice daily	reduce the possibility of amoxicillin				eatment has ceased. Thes
	7 - 12 years	10.0 ml AUGMENTIN suspension 457 mg/5 ml			ame per 5 ml dose and therefore care should be		deaths have been reported
	; •••••	twice daily.	taken in patients with phenylketonu	ria.			itant medications known to h Itaneous tissue disorders
		· · · · · · · · · · · · · · · · · · ·	Interactions			Uncommon	staneous tissue disorders Skin rash. pruritus. urt
					es the renal tubular secretion of amoxicillin.	Rare	Erythema multiforme
					d levels of amoxicillin but not of clavulanate.	Very rare	Stevens-Johnson synd
					ne likelihood of allergic skin reactions. There are		exanthemous pustulos
			no data on the concomitant use of		g to lower oestrogen reabsorption and reduced		sitivity dermatitis reaction or
					y to lower destroyen readsorption and reduced	Renal and urina	iry disorders
			efficacy of combined oral contrace	otives		Very rare	Interstitial nephritis, cr

es of increased international normalised ratio in patients maintained on acenocoumarol or amoxicillin. If co-administration is necessary, the prothrombin time or international normalised with the addition or withdrawal of AUGMENTIN.

ce and rats) with orally and parenterally administered AUGMENTIN have shown no teratogenic n with pre-term, premature rupture of the foetal membrane (pPROM), it was reported that ENTIN may be associated with an increased risk of necrotising enterocolitis in neonates. As avoided in pregnancy, especially during the first trimester, unless considered essential by the

during the period of lactation. With the exception of the risk of sensitisation, associated with breast milk, there are no detrimental effects for the infant.

e Machines

ve or operate machinery have not been observed.

used to determine the frequency of very common to rare undesirable effects. The frequencies ffects (i.e., those occurring at <1/10,000) were mainly determined using post-marketing data than a true frequency.

used for the classification of frequency:

us candidiasis

copenia (including neutropenia) and thrombocytopenia ranulocytosis and haemolytic anaemia. Prolongation of bleeding time and prothrombin time

oedema, anaphylaxis, serum sickness-like syndrome, hypersensitivity vasculitis

peractivity and convulsions. Convulsions may occur in patients with impaired renal function or ving high doses.

usea, vomiting

th higher oral dosages. If gastrointestinal reactions are evident, they may be reduced by taking

sociated colitis (including pseudomembranous colitis and haemorrhagic colitis). ociated colitis (including pseudomembranous colitis and haemorrhagic colitis).

oth discolouration has been reported very rarely in children. Good oral hygiene may help to discolouration as it can usually be removed by brushing.

se in AST and/or ALT has been noted in patients treated with beta-lactam class antibiotics, but ce of these findings is unknown.

cholestatic jaundice. These events have been noted with other penicillins and cephalosporins. predominantly in males and elderly patients and may be associated with prolonged treatment. reported in children.

r during or shortly after treatment but in some cases may not become apparent until several d. These are usually reversible. Hepatic events may be severe and in extremely rare reported. These have almost always occurred in patients with serious underlying disease or own to have the potential for hepatic effects.

rders

ritus, urticaria

tiforme

son syndrome, toxic epidermal necrolysis, bullous exfoliative-dermatitis, acute generalised pustulosis (AGEP)

action occurs, treatment should be discontinued.

hritis, crystalluria (see Overdose)

Overdose

Gastrointestinal symptoms and disturbance of the fluid and electrolyte balances may be evident. Gastrointestinal symptoms may be treated symptomatically with attention to the water electrolyte balance.

Amoxicillin crystalluria, in some cases leading to renal failure, has been observed (see Warnings and Precautions). AUGMENTIN can be removed from the circulation by haemodialysis.

PHARMACOLOGICAL PROPERTIES

Pharmacodynamics

Resistance to many antibiotics is caused by bacterial enzymes which destroy the antibiotic before it can act on the pathogen. The clavulanate in AUGMENTIN suspension anticipates this defence mechanism by blocking the B-lactamase enzymes, thus rendering the organisms sensitive to amoxicillin's rapid bactericidal effect at concentrations readily attainable in the body Clavulanate by itself has little antibacterial activity: however, in association with amoxicillin as AUGMENTIN it produces an antibiotic agent of broad spectrum with wide application in hospital and general practice. In the list below, organisms are categorised according to their in vitro susceptibility to AUGMENTIN.

In vitro susceptibility of micro-organisms to AUGMENTIN

Where clinical efficacy of Augmentin has been demonstrated in clinical trials this is indicated with an asterisk (*). Organisms that do not produce beta-lactamase are identified (with [†]). If an isolate is susceptible to amoxicillin, it can be considered susceptible to AUGMENTIN.

Commonly susceptible species
Gram-positive aerobes:
Bacillius anthracis
Enterococcus faecalis
Listeria monocytogenes
Nocardia asteroides
Streptococcus pyogenes* [†]
Streptococcus agalactiae*1
Streptococcus spp. (other β-hemolytic) * [†]
Staphylococcus aureus (methicillin susceptible)*
Staphylococcus saprophyticus (methicillin susceptible)
Coagulase negative staphylococcus (methicillin susceptible)
Gram-negative aerobes:
Bordetella pertussis
Leemophilus influenzae*
Haemophilus parainfluenzae
Helicobacter pylori
Moraxella catarrhalis*
Neisseria gonorrhoeae
Pasteurella multocida
Vibrio cholerae
Other:
Borrelia burgdorferi
Leptospira i Citterohaemorrhagiae
Treponena pallidum
Gram positive anaerobes:
Clostridium spp.
Peptococcus niger
Peptostreptococcus magnus
Peptostreptococcus micros
Peptostreptococcus spp.
Gram-negative anaerobes:
Bacteroides fragilis
Bacteroides spp.
Capnocytophaga spp.
Capriocytophaga spp. Eikenella corrodens
Eikenena conodens Fusobacterium nucleatum
Fusobacterium spp.
Porphyromonas spp.
Prevotella spp.
11
Species for which acquired resistance may be a problem
Gram-negative aerobes:
Escherichia coli*
Klebsiella oxytoca
Klebsiella pneumoniae*
Klebsiella spp.
Proteus mirabilis
Proteus vulgaris
Proteus spp.
Salmonella spp. Shigella spp.
ania ahh

Gram-positive aerobes: Corvnebacterium spp. Enterococcus faecium Streptococcus pneumoniae*1 Viridans group streptococcus

Inherently resistant organisms

Gram-negative aerobes: Acinetobacter spp. Citrobacter freundii Enterobacter spp. Hafnia alvei Legionella pneumophila Morganella morganii Providencia spp. Pseudomonas spp. Serratia spp. Stenotrophomas maltophilia Yersinia enterolitica Others: Chlamydia pneumoniae Chlamvdia psittaci Chlamvdia spp. Coxiella burnetti Mycoplasma spp.

Infections caused by amoxicillin-susceptible organisms are amenable to AUGMENTIN treatment due to its amoxicillin content. Mixed infections caused by amoxicillin -susceptible organisms in conjunction with AUGMENTIN-susceptible β-lactamase producing organisms may therefore be treated with AUGMENTIN.

Pharmacokinetics

Absorption:

The two components of AUGMENTIN suspension 228 mg/5 ml and 457 mg/5 ml, amoxicillin and clavulanate, are each fully dissociated in aqueous solution at physiological pH. Both components are rapidly and well absorbed by the oral route of administration. Absorption of AUGMENTIN is optimised when taken at the start of a meal.

The mean AUC values for amoxicillin are essentially the same following twice a day dosing with the AUGMENTIN 875/125 mg tablet or three times a day dosing with the AUGMENTIN 500/125 mg tablet, in adults. No differences between the 875 mg twice daily and 500 mg three times daily dosing regimes are seen when comparing the amoxicillin T_{1/2}, or C_{max} after normalisation for the different doses of amoxicillin administered. Similarly, no differences are seen for the clavulanate T1/2. Cmax or AUC values after appropriate dose normalisation.

The time of dosing of AUGMENTIN relative to the start of a meal has no marked effects on the pharmacokinetics of amoxicillin in adults. In a study of the AUGMENTIN 875/125 mg tablet, the time of dosing relative to ingestion of a meal had a marked effect on the pharmacokinetics of clavulanate. For clavulanate AUC and Cmax, the highest mean values and smallest inter-subject variabilities were achieved by administering AUGMENTIN at the start of a meal, compared to the fasting state or 30 or 150 minutes after the start of a meal.

The mean Cmax, Tmax, T1/2 and AUC values for amoxicillin and clavulanate are given below for an 875 mg/125 mg dose of amoxicillin /clavulanic acid administered at the start of a meal

Mean Pharmacokinetic Parameters

Drug Administration	Dose (mg)	C _{max} (mg/L)	T _{max} * (hours)	AUC (mg.h/L)	T _{1/2} (hours)
AUGMENTIN 1g					
Amoxicillin	875 mg	12.4	1.5	29.9	1.36
Clavulanate	125 mg	3.3	1.3	6.88	0.92

*Median values

Amoxicillin serum concentrations achieved with AUGMENTIN are similar to those produced by the oral administration of equivalent doses of amoxicillin alone.

Distribution:

The pharmacokinetics of the two components of AUGMENTIN are closely matched. Both clavulanate and amoxicillin have low levels of serum binding; about 70% remains free in the serum.

Doubling the dosage of AUGMENTIN approximately doubles the serum levels achieved.

Pre-clinical Safety Data

No further information of relevance.

PHARMACEUTICAL PARTICULARS List of Excipients

golden syrup dry flavours, aspartame.

Incompatibilities None known.

Shelf I ife

The expiry date is indicated on the packaging. Special Precautions for Storage

The dry powder should be stored in unopened containers in a dry place at below 25°C. Reconstituted suspensions should be stored in a refrigerator (2-8°C) and used within seven days.

Nature and Contents of Container

a dosing device.

Single-dose sachets (AUGMENTIN suspension 457 mg/5 ml only). When reconstituted, an off-white suspension is formed.

Instructions for Use/Handling

GLASS BOTTLES:

- Check cap seal is intact before use. Invert and shake bottle to loosen powder.
- Add volume of water (indicated below). Invert and shake well
- Alternatively, fill the bottle with water to just below the mark on bottle label.
- Allow to stand for 5 minutes to ensure full dispersion.
- Shake well before taking each dose.
- AUGMENTIN suspension 228 mg/5 ml

Fill Weight Volume of water to be added to recons		Volume of water to be added to reconstitute	Final volume of reconstituted oral suspension		
	7.7 g	64 ml	70 ml		
	15.4 g	128 ml	140 ml		

AUGMENTIN suspension 457 mg/5 ml

Fill Weight Volume of water to be added to reconstitute		Final volume of reconstituted oral suspension	
6.3 g	31 ml	35 ml	
12.6 g	62 ml	70 ml	
25.2 g	124 ml	140 ml	

SACHETS:

Directions for use: Check that the sachet is intact before use

- 1. Cut sachet along dotted line. Empty contents into a glass
- 2. Half fill sachet with water
- 3 Pour into a glass, stir to mix

4. Drink immediately upon reconstitution If two or four sachets have to be taken at once then they can be mixed in the same glass. Not all presentations are available in every country. Manufactured by

SmithKline Beecham plc*

Worthing, UK *Member of the GlaxoSmithKline group of companies

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GlaxoSmithKline

Xanthan gum, hydroxypropylmethylcellulose, colloidal silica, succinic acid, silicon dioxide, raspberry, orange "1", orange "2",

Clear, glass bottles with aluminium screw caps, containing an off-white dry powder. The AUGMENTIN suspension 457 mg/5 ml 35 ml and 70 ml presentations may be supplied with

At time of dispensing, the dry powder should be reconstituted to form an oral suspension, as detailed below:

Invert and shake well, then top up with water to the mark. Invert and shake again,

The AUGMENTIN suspension 457 mg/5 ml 35 ml and 70 ml presentation may be provided with a dosing device.

Single-dose sachets contain powder for a 2.5 ml dose of AUGMENTIN suspension 457 mg/5 ml.

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