## IRISH MEDICINES BOARD ACT 1995, as amended

#### Medicinal Products (Control of Placing on the Market) Regulations, 2007, as amended

PA1077/	033/001
Case No:	2084980

The Irish Medicines Board in exercise of the powers conferred on it by the above mentioned Regulations hereby grants to

#### GlaxoSmithKline (Ireland) Limited

#### Stonemasons Way, Rathfarnham, Dublin 16, Ireland

an authorisation, subject to the provisions of the said Regulations, in respect of the product

## Amoxil Capsules 250 mg.

the particulars of which are set out in the attached Schedule. The authorisation is also subject to the general conditions as may be specified in the said Regulations as listed on the reverse of this document.

This authorisation, unless previously revoked, shall continue in force from 30/06/2010.

Signed on behalf of the Irish Medicines Board this

A person authorised in that behalf by the said Board.

## Part II

## **Summary of Product Characteristics**

#### 1 NAME OF THE MEDICINAL PRODUCT

Amoxil Capsules 250 mg.

## 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each capsule contains 250 mg amoxicillin (as trihydrate).

For a full list of excipients, see section 6.1

#### 3 PHARMACEUTICAL FORM

Capsule, hard. (capsule)

Maroon and gold capsules with 'GS LEX' printed in white on the cap and body, containing a white powder.

## **4 CLINICAL PARTICULARS**

## 4.1 Therapeutic Indications

In the treatment of infections due to organisms sensitive to amoxicillin.

`Amoxil`is a broad spectrum antibiotic, indicated for the treatment of commonly occurring bacterial infections such as:

Upper respiratory tract infections

Otitis media

Acute and chronic bronchitis

Lobar and bronchopneumonia

Cystitis, urethritis, pylelonephritis

Bacteriuria in pregnancy

Gynaecological infections including puerperal sepsis and septic abortion

Acute uncomplicated gonorrhoea

Peritonitis

Intra-abdominal sepsis

Septicaemia

Bacterial endocarditis

Typhoid and paratyphoid fever

Skin and soft tissue infections

Dental abscess (as adjunct to surgical management)

In children with urinary tract infection, the need for investigation should be considered.

Parenteral therapy is indicated if the oral route is considered impracticable or unsuitable and particularly for the urgent treatment of severe episodes of the above conditions.

## Prophylaxis of endocarditis

`Amoxil` may be used for the prevention of bacteraemia, associated with the procedures such as dental extraction, in patients at risk of developing bacterial endocarditis.

## 4.2 Posology and method of administration

Route of Administration: oral

The absorption of 'Amoxil' is virtually unimpaired by the presence of food.

**Standard adult dosage**: The usual daily dosage is 750 mg in divided doses (i.e. 250 mg three times daily by the oral route).

In cases of severe infection the dosage may be doubled, or 'Amoxil' given by injection.

**High dosage therapy** (maximum recommended oral dosage of 6 g daily in divided doses): A dosage of 3 g twice daily is recommended in appropriate cases for the treatment of severe or recurrent purulent infection of the respiratory tract.

**Short course therapy:** *Simple acute urinary tract infection*: two 3 g doses with 10 -12 hours between the doses.

Gonorrhoea: 3 g as a single dose

Dental abscess: two 3 g doses with eight hours between the doses.

**Children up to 10 years of age**: The usual total daily dosage is 375 mg in divided doses (i.e. 125 mg three times daily by the oral route).

In severe or recurrent acute otitis media, especially where compliance may be a problem, 750 mg twice a day for two days may be used as an alternative course of treatment in children aged 3 to 10 years.

#### **Prophylaxis of Endocarditis:**

For dental procedures where an oral dose is appropriate:

**Adults:** 3 g 'Amoxil' orally, 1 hour before procedure. A second dose may be given 6 hours later, if considered necessary.

**Children:** Aged 5-10: Half the adult dose (i.e. 1.5 g given as a single 60 ml dose of 'Amoxil' Syrup (125 mg/5 ml). Under 5: Quarter adult dose.

**Renal impairment:** In renal impairment the excretion of antibiotic will be delayed and depending on the degree of impairment it may be necessary to reduce the total daily dosage.

Glomerular filtration rate	
Adults	Oral treatment
> 30 ml/min	No adjustment necessary
10-30 ml/min	Amox. Max 500 mg b.d.
< 10 ml/min	Amox. Max 500 mg/day
Children under 40kg	Oral treatment
> 30ml/min	No adjustment necessary
10-30 ml/min	15 mg/kg given b.i.d.
	(maximum 500mg/twice daily)
< 10ml/min	15 mg/kg given as a single day dose
	(maximum 500mg)

Amoxicillin Paediatric Suspension is recommended for children under 6 months of age.

## In patients receiving peritoneal dialysis:

Oral treatment: Amox. Max. 500 mg/day

Amoxicillin may be removed from the circulation be haemodialysis.

#### 4.3 Contraindications

Use in patients with a history of hypersensitivity to beta-lactam antibiotics including penicillins or cephalosporins.

## 4.4 Special warnings and precautions for use

Before initiating therapy with amoxicillin, careful enquiry should be made concerning previous hypersensitivity reactions to penicillins, cephalosporins. Cross-sensitivity between penicillins and cephalosporins is well documented.

Serious and occasionally fatal hypersensitivity reactions (anaphylaxis) have been reported in patients receiving betalactam antibiotics. If an allergic reaction occurs, amoxicillin should be discontinued and appropriate alternative therapy instituted.

Amoxicillin should be avoided if infections mononucleosis (glandular fever) is suspected since the occurrence of a morbilliform rash has been associated with this condition following the use of amoxicillin.

Prolonged use of an anti-infective may occasionally result in overgrowth of non-susceptible organisms.

Abnormal prolongation of prothrombin time (increased INR) has been reported rarely in patients receiving amoxicillin and oral anticoagulants. Appropriate monitoring should be undertaken when anticoagulants are prescribed concurrently. Adjustments in the dose of oral anticoagulants may be necessary to maintain the desired level of anticoagulation.

Dosage should be adjusted in patients with renal impairment (see Section 4.2).

In patients with reduced urine output crystalluria has been observed very rarely predominantly with parenteral therapy. During the administration of high doses of amoxicillin, it is advisable to maintain adequate fluid intake and urinary output in order to reduce the possibility of amoxicillin crystalluria.

## 4.5 Interaction with other medicinal products and other forms of interaction

Probenecid decreases the renal tubular excretion of amoxicillin. Concurrent use with amoxicillin may result in increased and prolonged blood levels of amoxicillin.

Concurrent administration of allopurinol during treatment with amoxicillin can increase the likelihood of allergic skin reactions.

In common with other antibiotics, amoxicillin may affect the gut flora, leading to lower oestrogen reabsorption and reduced efficacy of combined oral contraceptives.

In the literature there are rare cases of increased international normalised ratio in patients maintained on acenocoumarol or warfarin and prescribed a course of amoxicillin. If co-administration is necessary, the prothrombin time or international normalised ratio should be carefully monitored with the addition or withdrawal of amoxicillin.

## 4.6 Pregnancy and lactation

#### Use in pregnancy:

Animal studies with 'Amoxil' have shown no teratogenic effects. The product has been in extensive clinical use since 1972 and its suitability in human pregnancy has been well documented in clinical studies.

Amoxicillin may be used in pregnancy when the potential benefits outweigh the potential risks associated with treatment.

#### **Use in lactation:**

Amoxicillin may be administered during the period of lactation. With the exception of the risk of sensitisation associated with the excretion of trace quantities of amoxicillin in breast milk, there are no known detrimental effects for the infant.

## 4.7 Effects on ability to drive and use machines

Adverse effects on the ability to drive or operate machinery have not been observed.

#### 4.8 Undesirable effects

The following convention has been utilised for the classification of undesirable effects:

Very common (more than 1/10), common (more than 1/100, less than 1/10), uncommon (more than 1/1000, less than 1/100), rare (more than 1/1000), less than 1/1000), very rare (less than 1/1000).

The majority of the side-effects listed below are not unique to amoxicillin and may occur when using other penicillins. Unless otherwise stated, the frequency of adverse events (AEs) has been derived from more than 30 years of post-marketing reports.

Very rare:  Reversible leucopenia (including severe neutropenia or agranulocytosis), reversible thrombocytopenia and haemolytic anaemia.  Prolongation of bleeding time and prothrombin time  Immune system disorders  Very rare:  As with other antibiotics, severe allergic reactions, including angioneurotic oedema, anaphylaxis (see Warnings and Precautions), serum sickness and hypersensitivity vasculitis.  If a hypersensitivity reaction is reported, the treatment must be discontinued. (See also Skin and subcutaneous tissue disorders).  Nervous system disorders  Very rare:  Hyperkinesia, dizziness and convulsions. Convulsions may occur in patients with impaired renal function or in those receiving high doses.  Infections and Infestations  Very rare:  Mucocutaneous candidiasis  Gastrointestinal disorders  #Common:  Vomiting.  Very rare:  Antibiotic associated colitis (including pseudomembraneous colitis and haemorrhagic colitis)  Black hairy tongue  Superficial tooth discolouration has been reported in children. Good oral hygiene may help to prevent tooth discolouration at it can usually be removed by brushing (for suspension and chewable tablet formulations only)  Hepato-biliary disorders  Very rare:  Hepatitis and cholestatic jaundice. A moderate rise in AST and/or ALT.  The significance of a rise in AST and/or ALT is unclear.  Skin and subcutaneous tissue disorders  #Common:  Skin rash.	Blood and lymphatic system disorders		
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	The significance of	a rise in AST and/or ALT is unclear.	
#Common: Skin rash.	Skin and subcutane		
	#Common:	Skin rash.	
#Uncommon: Urticaria and pruritus.	#Uncommon:	Urticaria and pruritus.	
	Very rare:	Skin reactions such as erythema multiforme, Stevens-Johnson	
syndrome, toxic epidermal necrolysis, bullous and exfoliative			
dermatitis and acute generalised exanthematous pustulosis		dermatitis and acute generalised exanthematous pustulosis	

	(AGEP).	
	(See also Immune system disorders).	
Renal and Urinary tract disorders		
Very rare:	Interstitial nephritis, crystalluria (see Overdosage)	
#The incidence of these AEs was derived from clinical studies involving a total of		
approximately 6,000 adult and paediatric patients taking amoxicillin.		

#### 4.9 Overdose

Gross overdosage will produce very high urinary concentrations, more so after parenteral administration. Symptoms of water/electrolyte imbalance should be treated symptomatically. Problems are unlikely to occur if adequate fluid intake and urinary output are maintained; however, amoxicillin crystalluria in some cases leading to renal failure, has been observed (see Section 4.4, Special Warnings and Special Precautions for Use). More specific measures may be necessary in patients with impaired renal function: the antibiotic is removed by haemodialysis.

## 5 PHARMACOLOGICAL PROPERTIES

## **5.1 Pharmacodynamic properties**

`Amoxil` is a broad-spectrum antibiotic which possesses the safety profile of the penicillins and is rapidly bactericidal against a wide range of Gram-negative and Gram-positive organisms.

## 5.2 Pharmacokinetic properties

`Amoxil` is well absorbed by the oral and parenteral routes, peak blood levels are achieved one to two hours after administration. Oral administration produces high serum levels independent of the time at which the food is taken. `Amoxil` gives good penetration into the bronchial secretions and the high urinary concentrations of unchanged antibiotic. The average serum half life is 60 minutes. Elimination is mainly via the urine.

## 5.3 Preclinical safety data

There are no pre-clinical data of relevance to the prescriber which are additional to that already included in other sections of the SPC.

## 6 PHARMACEUTICAL PARTICULARS

## **6.1 List of excipients**

Magnesium stearate

Capsule shell:

Cap:

Gelatin

Erythrosine (E127)

Indigo carmine (E132)

Titanium dioxide (E171)

Body:

Gelatin

Titanium dioxide (E171)

Yellow iron oxide (E172)

**Printing Ink:** 

Shellac

Soya lecithin (E322)

Antifoam DC 1510 Titanium dioxide (E171)

## **6.2** Incompatibilities

Not applicable.

## 6.3 Shelf Life

3 years.

## 6.4 Special precautions for storage

Do not store above 25°C. Store in the original container.

## 6.5 Nature and contents of container

Polypropylene containers with polyethylene lid containing 100 or 500 capsules. PVC/aluminium foil blister packs containing 3, 6, 12 or 21capsules.

Not all pack sizes may be marketed.

# 6.6 Special precautions for disposal of a used medicinal product or waste materials derived from such medicinal product and other handling of the product

No special requirements.

## 7 MARKETING AUTHORISATION HOLDER

GlaxoSmithKline (Ireland) Limited Stonemasons Way Rathfarnham Dublin 16

## 8 MARKETING AUTHORISATION NUMBER

PA 1077/33/1

## 9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 01 April 1977

Date of last renewal: 01 April 2007

#### 10 DATE OF REVISION OF THE TEXT

November 2009