

19 March 2009 EMA/743325/2014 Committee for Medicinal Products for Human Use (CHMP)

Ketek

(telithromycin)

Procedure No. EMEA/H/C/000354/P46/038

der authorised CHMP assessment report for paediatric use studies submitted according to Article 46 of the Regulation (EC) No 1901/2006 ,duct

Assessment Report as adopted by the CHMP with all information of a commercially	
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Administrative Information

	Ketek
Name of the active substance	telithromycin
Pharmacotherapeutic classification (ATC code)	J01FA15
Pharmaceutical form and strength	Film-coated tablet, 400 mg
Centralised Procedure Reference Number	EMEA/H/C/354 P46 038
Marketing Authorisation holder	Aventis Pharma SA
Date of first Authorisation/last update	2001-07-09
Marketing authorisation number	2006-07-10
Date of Assessment Report/Last update	2008-12-12
Name of the Rapporteur	Bengt Ljungberg
inal product	

1. Introduction

Telithromycin, a ketolide antibiotic chemically related to the macrolides, was introduced to the European market 2001. Telithromycin was originally approved for the treatment of community acquired lower and upper respiratory tract infections. Telithromycin exhibits a high *in vitro* activity against *Streptococcus pneumoniae*, irrespective of erythromycin resistance, *Streptococcus pyogenes* and *Haemophilus influenzae*. In June 2007, the CHMP decided to restrict the indication due to safet concerns to:

When prescribing Ketek, consideration should be given to official guidance on the appropriate use of antibacterial agents and the local prevalence of resistance (see also sections 4.4 and 1).

Ketek is indicated for the treatment of the following infections:

In patients of 18 years and older:

- Community-acquired pneumonia, mild or moderate (see section 4.4)
- When treating infections caused by known or suspected betaneous and/or macrolide resistant strains (according to history of patients or national and/or regional resistance data) covered by the antibacterial spectrum of telithromycin (see sections 1.4 and 5.1):
- Acute exacerbation of chronic bronchitis,
- Acute sinusitis

In patients of 12 years and older:

• Tonsillitis/pharyngitis caused by Streptococcus pyogenes, as an alternative when beta lactam antibiotics are not appropriate in countries/regions with a significant prevalence of macrolide resistant *S. pyogenes*, when recisited by ermTR or mefA (see sections 4.4 and 5.1).

Following the somewhat revised be nerit/risk evaluation by the CHMP in June 2007, mainly based on safety concerns regarding rist for nepatotoxicity, visual disturbances, transient loss of consciousness as well as potential to inclease QT interval, the MAH took the decision to stop the paediatric development program of tenthromycin, dated 3 October 2007. On the 13 December 2007 the CHMP adopted the conclusion to support the decision to stop the paediatric development, and committed to assess the clinical study reports when available.

In 2005, the European Medicines Agency (EMEA) reminded all Marketing Authorisation Holders in Europe of their legal obligation to submit any information or data collected postauthorization, and in particular paediatric data (EMEA letter of 25 March, 2005, ref EMEA/105756/2005).

The sludy reports of the completed paediatric clinical phase III studies were submitted by sanofiaventis in June 2008, as per regulation 1901/2006, Article 46. Data included a summary of the telithromycin paediatric data (pharmaceutical, non-clinical and clinical) that supported the initiation of the clinical program and the results of the Phase III telithromycin clinical paediatric studies that were initiated in June 2005 and voluntarily stopped by sanofi-aventis in September 2007.

Sanofi-aventis does not intent to file for a specific paediatric indication or usage.

2. Assessment

The clinical paediatric program included several Phase I and Phase II studies, and four Phase III clinical study reports (Studies [EFC6131, EFC6132, EFC6133, EFC6134]) and one case report form from a single patient included in Study [POP6135].

The formulation used in Phase III studies was a 10% powder for oral suspension.

Clinical efficacy

Dose-finding studies from paediatric program

Eleven (11) Phase I studies in adults and in infants and children, and 4 Phase II studies in mants and children were performed as part of the telithromycin paediatric program. Pharmaco, netic analyses showed that the pharmacokinetic measures Cmax and AUC in plasma were comparable in infants (6 to 24 months of age) and children (2 to 12 years of age). According to the parameter estimates by age group, different dosing regimens were considered not necessary for the two age groups.

An assessment of safety data from Phase II studies led to the conclusion that the safety profile of a 30 mg/kg dose of telithromycin given either once daily or divided into two doses showed a range of adverse events in the upper range of acceptability; the 30 mg/kg dose was not carried forward into a Phase III program. In contrast, the safety profile of the 20 mg/kg dose was favourable, with a low rate of gastrointestinal events. The efficacy response to *S. preumorilae*, including macrolide-resistant *S. pneumoniae*/penicillin-resistant *S. pneumoniae* infections, was not affected by the difference in dose, whereas the response to *H. influenzae* infection, and the response in subjects <2 years old, was better with the higher dose, but only at the on-therapy visit. Therefore, a decision was made to move forward into Phase III with a dose of 25 mg/kg once claily. Pharmacokinetic modelling demonstrated that the pharmacokinetic profile of the 25 mg/kg dose in children would be similar to that of the 800 mg dose in adults.

Assessor's comments:

Pharmacokinetic results of Phase I and Phase II clinical studies indicated that different dosing regimens for infants (6 to 24 months of oge) and children (2 to 12 years of age) were not necessary. The efficacy and safety results in Phase II, led to the selection of an oral suspension dose of 25 mg/kg for the Phase III program. However, these data have not been submitted and has therefore currently not been assessed by the papporteur.

Phase III studies

The Fnas III telithromycin paediatric program consisted of 5 studies:

- Two studies in acute otitis media in children ≥ 6 months and < 60 months of age (Study [EFC6131]), and in children ≥ 6 months and < 72 months of age (Study [EFC6132])
- Two studies performed in tonsillitis/pharyngitis, in children aged 6 months to 12 years (Study [EFC6133]), and in adolescents (children 13 to 18 years of age) and adults (Study [EFC6134])
- One study in community-acquired pneumonia in children aged 6 months to <13 years (Study [POP6135])

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Telithromycin Phase III paediatric studies

Study	Indication	Study title	Safety evaluable	Study timelines
B3001	AOM	Multinational, randomized, double-blind,	Total 633 - 317 on telithromycin	FPI 27-Jun-2005
(EFC6131)		double-dummy, comparative study to		LPO 27-Jun-2006
		telithromycin 25 mg/kg given once daily for 5 or 10 days depending on age and previous treatment history versus cefuroxime axetil 15 mg/kg, given twice daily for 10 days, in children with acute otitis media		Study terminated September 2007
B3002	AOM	Multinational, randomized, double-blind,	Total 318 – 157 on telithromycin	FPI 30-Jan-2006
(EFC6132)		double-dummy, comparative study to		LPO 18-Ji I-2006
		telithromycin oral suspension 25 mg/kg, given		tudy terminated
	once daily, versus 5 days of azithromycin ora suspension, given once as 10 mg/kg followe by 5 mg/kg given once daily for 4 days, in children with acute otitis media	Ĉ	September 2007	
B 3005	CAP	Multinational, randomized, double blind, double dummy, pharmacokinetic study of talithromycin oral suspension (25 mg/kg once	Total 1 on FPI 16 tr lift.rcmycin LPO sin Study	FPI 16-May-2006
(POP6135)				LPO 1-Jun-2006
		daily for 7-10 days), with secondary assessments of safety relative to azithromycin oral suspension (10 mg/kg once daily for 1 day followed by 5 mg/kg once daily for days) in children with mild to moderate community-acquired pneumonia		Study terminated September 2007
B3004	T/P	Multinational, randomized, do 101 - bind,	onal, randomized, do up - bind, dummy, comparative s'udy toTotal 305 – 150 on telithromycinFPI 12-Mar-2 LPO 15-Aug- Study terminJummy, comparative s'udy to the efficacy art safety of hycin oral supersion, 25 mg/kg once 5 days, version penicillin V oral 13 3 thio/kg three times daily for 10 children 6 months to less than 13 requirin Streptococcus pyogenes //pl aryngitisTotal 305 – 150 on telithromycinFPI 12-Mar-2 LPO 15-Aug- Study termin September 2	FPI 12-Mar-2006
(EFC6133)	double-dummy, comparative study to evaluate the efficacy and safety of telithromycin oral su pension, 25 mg/l daily for 5 days, v موجوب encillin V ora solution, 13.3 (ng/kg three times daily days, in children o months to less that years of one with Streptococcus pyog tonsill is/pt aryngitis	double-dummy, comparative shudy to evaluate the efficacy art, safety of		LPO 15-Aug-2006
		telithromycin oral su pension, 25 mg/kg once daily for 5 days, vorsus pencillin V oral solution, 13 3 n a/kg three times daily for 10 days, in children 6 months to less than 13 years of a with Streptococcus pyogenes tonsill is/pt aryngitis		Study terminated September 2007
B3006	T/P	Multinational, randomized, double blind,	Total 232 (including	FPI 20-Feb-2006
(EFC6134)		con parative study to evaluate the efficacy	154 adults) - 112 on telithromycin	LPO 1-Sep-2006
•	(S)	for 5 days, versus penicillin V, 500 mg three times daily for 10 days, in adolescent and adult subjects equal to or over 13 years of age with Strentococcus progenes	tenunonnyonn	Study terminated September 2007
÷C		tonsillitis/pharyngitis		

ABS = curte vactorial sinusitis; AOM = acute otitis media; CAP = community-acquired pneumonia; FPO = first patient in; LPO = last patient out; TLP = to sillitis/pharyngitis

A sessments of clinical efficacy and safety were to be carried out at all visits. In paediatric and dolescent subjects, safety alert terms related to cardiac events, hepatic events, and visual disturbances were to be collected throughout the study. An independent data monitoring committee reviewed efficacy and safety data during all paediatric studies and provided advice on the conduct of the studies to the Sponsor.

Study EFC6131

Subjects with acute otitis media (age range: ≥ 6 months and < 60 months) were randomized to either telithromycin oral suspension 25 mg/kg once daily or cefuroxime axetil oral suspension 15 mg/kg twice daily. Subjects randomized to telithromycin could be assigned to treatment for either 5 or 10 days. Subjects ≤ 24 months (inclusive) of age who had received antibacterials for acute otitis media within the past 30 days were to receive treatment for 10 days (considered as high risk subjects); all other subjects were to receive treatment for 5 days (considered as low risk subjects). All subjects randomized to cefuroxime axetil were to be given treatment for 10 days.

The primary efficacy variable was the clinical cure rate at the posttherapy/test of cure visit, with the test of cure based on otoscopic evaluation of the tympanic membrane by the Investigator and the subsequent prescription of antibacterials or performance of surgical procedures for acute cities media.

Study EFC6132

Subjects with acute otitis media (age range: ≥ 6 months to <6 years of age) were randomized to receive either telithromycin (50 mg/mL) oral suspension 25 mg/kg

once daily for 5 days (not to exceed 1200 mg/day) or azithromycin (40 mg/mL, oral suspension (10 mg/kg) once on Day 1, followed by 5 mg/kg once daily on Days 2 to 5, to exceed 500 mg on Day 1 and 250 mg/day on Days 2 to 5.

The primary efficacy variables were time to symptom resolution and clinical cure outcome at test of cure in the PPc population.

Study EFC6133

Subjects aged 6 months to less than 13 years who had pyogenes tonsillitis/pharyngitis were randomized to receive either telithromycin oral suspension 25 mg/kg once daily for 5 days or penicillin V oral suspension, 13.3 mg/kg 3 times daily or 10 days.

The primary efficacy variable was the back priclogic outcome at the posttherapy/test-of-cure visit (Visit 3, Day 13-17) in the PPb population.

Study EFC6134

This study included subjects a geo 13 years or older with S. pyogenes tonsillitis/pharyngitis. Each subject received either telithromy cin ablets 800 mg once daily for 5 days, or penicillin V tablets 500 mg 3 times daily for 10 days. The primary efficacy variable was the bacteriologic outcome at the posttherapy/test-c -cure visit (Visit 3, Day 13-17) in the PPb population.

Study EFC61.35

Only one s ubject was enrolled in this study on community-acquired pneumonia in paediatric patients, before the study was voluntarily discontinued by the MAH.

Chrical outcome

All of the Phase III paediatric studies were terminated before reaching the planned sample sizes. Consequently, the intended comparative statistical analyses were not performed, and the efficacy data were summarized using descriptive statistics only. The EFC6131 study was terminated with 639 out of the target 900 subjects randomized.

Descriptive statistics showed that the primary efficacy assessment of clinical cure rates at posttherapy/test-of-cure for the PPc population was 90.0% (235 of 261 subjects) for telithromycin and 92.7% (240 of 259 subjects) for cefuroxime.

The EFC6132 study was terminated with 321 out of the target 1500 subjects randomized.

Descriptive statistics showed that the primary efficacy assessment of clinical cure rate at posttherapy/test-of-cure for the PPc population was 78.5% (102 of 130 subjects) for telithromycin and 82.7% (115 of 139 subjects) for azithromycin. The median time to symptom resolution in the modified intent-to-treat population was 3.0 days in the telithromycin group and 2.75 days in the azithromycin group.

The EFC6133 study was terminated with 314 out of the target 760 subjects randomized. In the PPb population, the rates of bacteriologic cure based on documented eradication of *S. pyrees* at the posttherapy/test-of-cure visit (Visit 3, Day 13-17) were 93.7% (89 of 95 subjects) in the telithromycin group and 74.0% (77 of 104 subjects) in the penicillin group.

The EFC6134 study was terminated with 256 out of the target 760 subjects randomized. In the PPb population, the rates of bacteriologic outcome based on documented eradication of *S. pyogenes* at posttherapy/test-of-cure were 93.0% (66 of 71 subjects) in the telithrum/cin group and 83.3% (70 of 84 subjects) in the penicillin V group.

Assessor's comments:

Due to the termination of these studies prior to complete enrolment, as endorsed by the CHMP, only descriptive statistics were provided for the efficacy charges in the final clinical study reports. No conclusions could be made from the available data

Clinical safety

Safety results were reported by study.

Study EFC6131

The safety population included 317 subjects in the telithromycin group and 316 in the cefuroxime group. Median age way 2 years (range 0.5 to 5 years). Treatment-emergent adverse events (TEAEs) were reported in 45 1% of subjects in the telithromycin group and 41.1% in the cefuroxime group. The most frequently reported TEAEs, ie, in \geq 3.0% subjects in either treatment group, were diarrhea (telithromycin. 11.7%, cefuroxime: 10.4%), vomiting (telithromycin: 9.1%, cefuroxime: 7.0%), dermatit's viager (telithromycin: 3.2%, cefuroxime: 4.4%), and pyrexia (telithromycin: 3.5%, cefur (xime: 0.9%).

There were no deaths reported during the study.

total of 7 subjects (2.2%) in the telithromycin group and 5 subjects (1.6%) in the cefuroxime group experienced serious TEAEs. Two serious TEAEs in each treatment group were associated with the hepatobiliary system. One serious TEAE, "staring," a visual adverse event of special interest, was reported in 1 subject in each treatment group.

The study treatment discontinuations due to TEAEs (telithromycin: 13; cefuroxime: 6) were mostly due to vomiting (8 subjects in the telithromycin group, 3 subjects in the cefuroxime group) or skin disorders (3 subjects in the telithromycin group and none in the cefuroxime group).

For adverse events of special interest, the reporting of hepatic (telithromycin: 4; cefuroxime: 5) and visual events (telithromycin: 1; cefuroxime: 3) was similar between treatment groups, and no cardiac adverse events of special interest were reported. With respect to postbaseline ALT/serum glutamate pyruvate transaminase (ALT/SGPT) elevations >3 x upper limit of normal (ULN), 1 was noted in the telithromycin group and 2 in the cefuroxime group. Twenty two of 283 (7.8%) subjects in the telithromycin group and 13 of 280 (4.6%) subjects in the cefuroxime group had platelet values ≥ 1.5 x ULN at postbaseline.

Study EFC6132

The safety population included 157 subjects in the telithromycin group and 161 in the 42t bromycin group. Median age was 2.2 years (range 0.5 to 6 years). Treatment-emergent advected vents were reported in 37.6% of subjects in the telithromycin group and 36.6% in the azithromycin group. The most frequently reported TEAEs, ie, in \geq 3.0% subjects in either treatment group, were diarrhoea (telithromycin: 6.4%, azithromycin: 5.0%), otitis media (telithromycin: 5.7%, azithromycin: 5.0%), cough (telithromycin: 3.2%, azithromycin: 4.3%), vomiting (telithromycin: 2.5%, azithromycin: 3.1%), and gastroenteritis viral (telithromycin: 1.3%, azithromycin: 3.1%). There were no deaths reported during the study. There was 1 serious TEAE (viral infection) is ported during the study in the telithromycin group which resolved without sequelae. The Investigator determined the event was unrelated to study treatment. Treatment-emergent adverse events led to treatment discontinuation in 1.3% of telithromycin subjects and 1.2% of azithromycin subjects.

For adverse events of special interest, there were no heratic or cardiac events in either group. There was 1 subject (1014/2041) in the telithromycin group, that reported a visual TEAE of blepharospasm. The TEAE manifested 1 hour after the first or set of study medication. The event resolved without sequelae. The Investigator assessed the event to be nonserious, of mild intensity, and possibly related to study medication. The pattern of posturaseline hepatic enzyme levels were similar across the treatment groups and the majority of actionrmalities in laboratory analytes were similar between the 2 treatment groups. Eight of 130 ($\leq 2^{\circ}$) subjects in the telithromycin group and 2 of 132 (1.5%) subjects in the azithromycin group nad platelet values $\geq 1.5 \times ULN$ at postbaseline.

Study EFC6133

The safety population included 150 subjects in the telithromycin group and 155 in the penicillin group. Treatment-emergent adverse events were reported in 32.0% of subjects in the telithromycin group and 37.4% of subjects in the penicillin group. The most frequently reported TEAEs, i.e., in \geq 3.0% of subjects of either treatment group, were vomiting (telithromycin: 7.3%, penicillin: 3.2%), cough (telitlion ycin: 4.7%, penicillin: 3.2%), otitis media (telithromycin: 0.7%, penicillin: 3.2%), and hearache (telithromycin: 0.7%, penicillin: 3.9%).

There were no deaths reported during the study. One subject (0.7%) in the telithromycin group reported a serious TEAE associated with study medication overdose, and recovered without any clinical intervention. No other adverse events were reported in this subject. Treatment-emergent adverse events leading to discontinuation of subjects were reported by 6% of subjects in the telithromycin group and 3.2% of subjects in the penicillin group. Vomiting was the most frequently reported TEAE that led to discontinuation in the telithromycin group.

With respect to adverse events of special interest, 1 hepatic event (elevated baseline ALT) was reported in the telithromycin group. The subject had an elevated baseline ALT value that returned to normal after treatment. There were 2 visual events (blurred vision) reported, 1 in each treatment group. In both cases the events resolved without sequelae. There were no subjects with postbaseline ALT or aspartate aminotransferase (AST) values >3 x ULN. No subject had postbaseline bilirubin values >2 x ULN.

Study EFC6134

The safety population included 112 subjects (36 <18years of age) in the telithromycin group and 12 (42 <18 years of age) in the penicillin group.

Treatment-emergent adverse events were reported in 41.1% of patients in the telithromycin group and 31.7% in the penicillin group. The most frequently reported TEAEs, ie, in \geq 3.0% subjects in e ther treatment group, were diarrhoea (telithromycin: 9.8%, penicillin V: 1.7%), nausea (telithromycin: 4.5%, penicillin: 4.2%), vomiting (telithromycin: 3.6%, penicillin: 1.7%), and heada the (telithromycin: 4.5%, penicillin: 0.8%).

There were no deaths reported during the study. One adolescent subject in the traithromycin group reported a serious TEAE associated with serum sickness and liver function abnormality, and recovered without sequelae. One subject (0.8%) in the penicillin group also reported a serious TEAE of visual tracking test abnormality and acute sinusitis, but recovered without sequelae. The frequency of TEAEs leading to discontinuation of subjects was 6.3% in the telithrom yein group and 5.0% in the penicillin group.

There were 5 subjects in the telithromycin group and 2 subjects in the penicillin group who reported hepatic adverse events of special interest. The elevation of ALT in 1 subject in the telithromycin group was reported as a serious TEAE. In the telithromycin group, 4 subjects had elevated levels of ALT. In these 4 subjects, 2 subjects ALT >5 x ULN and 2 subjects had ALT within >3 x and $\leq 5 x$ ULN. In the subjects with >5 x ULN, 1 subject also had elevated level of AST within >3 x and $\leq 5 x$ ULN. One subject in the telithromycin group had elevated level of bilirubin (1.7 x ULN at Visit 1 and 1.5 x ULN at Visit 3). In the penicillin group, 1 subject had elevated level of ALT within >3 x and $\leq 5 x$ ULN and 1 subject had elevated level of AST (4.1 x ULN). All subjects recovered without sequelae.

There were 3 subjects in each treatment group who reported visual adverse events of special interest. In all the cases the events is solved without sequelae, except for 1 adult subject (with a mild event of blurred vision) in the telithreenycin group who had blurred vision with small print and was reported as ongoing. The event was attributed to the aging process and reported as not related to the study medication.

Study EFC61.5

No adverse swents were reported for the one subject in the POP6135 study, who completed treatment with telity romycin oral suspension 25 mg/kg once daily for 10 days.

Putelet evaluation

A slight increase in post-baseline platelets was observed in the telithromycin groups compared to comparator drug groups in 2 studies, EFC6131 (7.8% vs. 4.6%) and EFC6132 (6.2% vs. 1.5%). Therefore, an analysis was performed of baseline to post-baseline changes in platelets in subjects with post baseline values available. None of the subjects in either study had post-baseline platelet elevation \geq 2.5 x ULN.

The observation of a trend in post-baseline platelet elevation with telithromycin was not seen in older subjects, including adults. These limited data, with uncertain significance in children <72 months with acute otitis media, indicate that no change is warranted in the labeling for adults with respect to the platelets.

Assessor's comments on safety:

A total of 1420 paediatric subjects (age range 6 months to 18 years) were exposed to telithromycin in the paediatric program (Phases I = 200, II = 637, and III = 583). Of the 474 enrolled in the two act te otitis media Phase III studies, approximately 50% were below the age of 2 years. The results of the safety evaluation of all subjects who received telithromycin as an oral suspension at a dose or 25 mg/kg once daily for 5 or 10 days, or as an oral tablet of 800 mg once daily for 5 days, were consistent with the known safety profile of telithromycin. The limited data from the analysis of baseline to post-baseline changes in platelets in studies EFC6131 and EFC6132, which are of uncertain significance in children <72 months with acute otitis media, indicate that no that ge is warranted in the labeling for adults with respect to the platelets.

Due to the overall safety profile of telithromycin, the Rapporteur consider: that the overall benefit/risk ratio for the use of Ketek in children with benign indications such a sature otitis media and tonsillitis/pharyngitis, is negative. Accordingly, the Rapporteur concurs with the MAH that a specific paediatric indication besides the already approved tonsillitis pharyngitis in adolescents above 12 years of age, is not supported.

Summary of product's characteristics (SPC)

Although the presently submitted documentation on paediatric patients does not support a specific paediatric indication or recommendation for use in children besides the currently approved second-line indication tonsillitis/pharyngitis caused by *S. pyogenes* in patients of 12 years and older, the SPC should be updated in sections 4.2, 4.4 and 5.2 based on the new data.

The current statement in section 5.2 regarding subjects below the age of 12 years is no longer correct. MAH is requested to present a vailable PK data and to suggest valid concise information concerning this population, to be stated in section 5.2.

Current information and an endments of the second s

Section 4.2

In chile rei

Ketex is not recommended for use in children below 12 years of age due to lack of *limited* data on the section **4.4 and** 5.2).

Section 4.4

The paediatric program was terminated before the planned number of subjects was randomised, based on the overall benefit/risk balance for adults. Limited data in patients from 6 months of age with acute otitis media or tonsillitis/pharyngitis, receiving telithromycin oral suspension, indicate a safety profile consistent with that of adults.

Section 5.2

Assessor's comment: This section requires further amendments depending on the MAH's response to the LoQ:

-Paediatric patients

The pharmacokinetics of telithromycin in paediatric population less than 12 years old have not yet been studied. Limited data, obtained in paediatric patients 13 to 17 years of age, showed that telithromycin concentrations in this age group were similar to the concentrations in patients 18 to 40 years of age (see section 4.4).

Assessor's overall conclusion

Sanofi-aventis initiated a paediatric program aimed to evaluate the efficacy and safety of telithromycin oral suspension 25 mg/kg once daily in the treatment of acute otitis media, tons. itis /pharyngitis and community-acquired pneumonia. Following a safety assessment by the CHMP Ica ling to restricted indications in June 2007due to a somewhat revised benefit/risk evaluation, the MAH decided to terminate all ongoing and planned studies in the paediatric program. The cecision was supported by the CHMP in December 2007.

The Phase III clinical program was terminated before the plane on number of subjects could be randomized. Thus, the study populations were limited (a total of 471 patients aged from 6 months to 12 years received telithromycin 25mg/kg once daily in Phase 11 studies), and consequently the efficacy data were summarized using descriptive statistics only. No definitive efficacy conclusions can be drawn from these studies.

Across all of the Phase III clinical studies, the results of the safety evaluation of telithromycin were consistent with the known profile of the product. Regarding the new data presented in this submission, there is no new safety signal identified in the studied paediatric population compared to the approved labeling for use of telithromycin in a function that would warrant a change of the safety information.

However, the new information gamed from the interrupted paediatric clinical program, renders a need for updating the sections 4.2 (4.1 and 5.2 in the SPC. It is of importance that the prescribers are informed of the reason for acsence of a specific paediatric indication, as well as of the current PK and safety information for this group of patients.

3. Conclusion and Recommendation

Due to the overall safety profile of telithromycin, the Rapporteur considers that the overall benefit/risk ratio for the use of Ketek in children with benign indications such as acute otitis media and to still to pharyngitis, is negative. Accordingly, the Rapporteur concurs with the MAH that a specific parallatric indication besides the already approved second-line indication for tonsillitis/pharyngitis in adolescents above 12 years of age, is not supported. However, based on the available data on patients 6 months to 12 years, some amendments in the SPC are required.

List of Questions:

- 1. The applicant should update sections 4.2 and 4.4 according to the Rapporteur's proposal.
- wedicinal product no longer authorised 2. The current statement in section 5.2 regarding subjects below the age of 12 years is no longer