ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS
1. NAME OF THE MEDICINAL PRODUCT

Fycompa 2 mg film-coated tablets
Fycompa 4 mg film-coated tablets
Fycompa 6 mg film-coated tablets
Fycompa 8 mg film-coated tablets
Fycompa 10 mg film-coated tablets
Fycompa 12 mg film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Fycompa 2 mg film-coated tablets

Each film-coated tablet contains 2 mg perampanel.

Excipient with known effect: Each 2 mg tablet contains 78.5 mg of lactose (as monohydrate). For the full list of excipients, see section 6.1.

Fycompa 4 mg film-coated tablets

Each film-coated tablet contains 4 mg perampanel.

Excipient with known effect: Each 4 mg tablet contains 157.0 mg of lactose (as monohydrate). For the full list of excipients, see section 6.1.

Fycompa 6 mg film-coated tablets

Each film-coated tablet contains 6 mg perampanel.

Excipient with known effect: Each 6 mg tablet contains 151.0 mg of lactose (as monohydrate). For the full list of excipients, see section 6.1.

Fycompa 8 mg film-coated tablets

Each film-coated tablet contains 8 mg perampanel.

Excipient with known effect: Each 8 mg tablet contains 149.0 mg of lactose (as monohydrate). For the full list of excipients, see section 6.1.

Fycompa 10 mg film-coated tablets

Each film-coated tablet contains 10 mg perampanel.

Excipient with known effect: Each 10 mg tablet contains 147.0 mg of lactose (as monohydrate). For the full list of excipients, see section 6.1.

Fycompa 12 mg film-coated tablets

Each film-coated tablet contains 12 mg perampanel.

Excipient with known effect: Each 12 mg tablet contains 145.0 mg of lactose (as monohydrate). For the full list of excipients, see section 6.1.
3.  PHARMACEUTICAL FORM

Film-coated tablet (tablet)

**Fycompa 2 mg film-coated tablets**
Orange, round, biconvex tablet, engraved with E275 on one side and ‘2’ on other side

**Fycompa 4 mg film-coated tablets**
Red, round, biconvex tablet, engraved with E277 on one side and ‘4’ on other side

**Fycompa 6 mg film-coated tablets**
Pink, round, biconvex tablet, engraved with E294 on one side and ‘6’ on other side

**Fycompa 8 mg film-coated tablets**
Purple, round, biconvex tablet, engraved with E295 on one side and ‘8’ on other side

**Fycompa 10 mg film-coated tablets**
Green, round, biconvex tablet, engraved with E296 on one side and ‘10’ on other side

**Fycompa 12 mg film-coated tablets**
Blue, round, biconvex tablet, engraved with E297 on one side and ‘12’ on other side

4.  CLINICAL PARTICULARS

4.1 Therapeutic indications

Fycompa (perampanel) is indicated for the adjunctive treatment of
- partial-onset seizures (POS) with or without secondarily generalised seizures in patients from 4 years of age and older.
- primary generalised tonic-clonic (PGTC) seizures in patients from 7 years of age and older with idiopathic generalised epilepsy (IGE).

4.2 Posology and method of administration

Posology

Fycompa must be titrated, according to individual patient response, in order to optimise the balance between efficacy and tolerability. Perampanel should be taken orally once daily at bedtime. The physician should prescribe the most appropriate formulation and strength according to weight and dose. Alternate formulations of perampanel are available, including oral suspension

*Partial-Onset Seizures*
Perampanel at doses of 4 mg/day to 12 mg/day has been shown to be effective therapy in partial-onset seizures.

The following table summarises the recommended posology for adults, adolescents and children from 4 years of age. More details are provided below the table.
<table>
<thead>
<tr>
<th></th>
<th>Adult/adolescent (12 years and older)</th>
<th>Children (4 – 11 years); weighing:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>≥ 30 kg</td>
<td>20 - &lt; 30 kg</td>
</tr>
<tr>
<td><strong>Recommended starting dose</strong></td>
<td>2 mg/day</td>
<td>2 mg/day</td>
</tr>
<tr>
<td><strong>Titration (incremental steps)</strong></td>
<td>2 mg/day (no more frequently than weekly intervals)</td>
<td>2 mg/day (no more frequently than weekly intervals)</td>
</tr>
<tr>
<td><strong>Recommended maintenance dose</strong></td>
<td>4 – 8 mg/day</td>
<td>4 – 8 mg/day</td>
</tr>
<tr>
<td><strong>Titration (incremental steps)</strong></td>
<td>2 mg/day (no more frequently than weekly intervals)</td>
<td>2 mg/day (no more frequently than weekly intervals)</td>
</tr>
<tr>
<td><strong>Recommended maximum dose</strong></td>
<td>12 mg/day</td>
<td>12 mg/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Adults, adolescents age ≥ 12 years**  
Treatment with Fycompa should be initiated with a dose of 2 mg/day. The dose may be increased based on clinical response and tolerability by increments of 2 mg (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day to 8 mg/day. Depending upon individual clinical response and tolerability at a dose of 8 mg/day, the dose may be increased by increments of 2 mg/day to 12 mg/day. Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Children (from 4 to 11 years) weighing ≥ 30 kg**  
Treatment with Fycompa should be initiated with a dose of 2 mg/day. The dose may be increased based on clinical response and tolerability by increments of 2 mg (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day to 8 mg/day. Depending upon individual clinical response and tolerability at a dose of 8 mg/day, the dose may be increased by increments of 2 mg/day to 12 mg/day. Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Children (from 4 to 11 years of age) weighing 20 kg and < 30 kg**  
Treatment with Fycompa should be initiated with a dose of 1 mg/day. The dose may be increased based on clinical response and tolerability by increments of 1 mg (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day to 6 mg/day. Depending upon individual clinical response and tolerability at a dose of 6 mg/day, the dose may be increased by increments of 1 mg/day to 8 mg/day. Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Children (from 4 to 11 years of age) weighing < 20 kg**  
Treatment with Fycompa should be initiated with a dose of 1 mg/day. The dose may be increased based on clinical response and tolerability by increments of 1 mg (either weekly or every 2 weeks as
per half-life considerations described below) to a maintenance dose of 2 mg/day to 4 mg/day. Depending upon individual clinical response and tolerability at a dose of 4 mg/day, the dose may be increased by increments of 0.5 mg/day to 6 mg/day. Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Primary Generalised Tonic-Clonic Seizures**

Perampanel at a dose up to 8 mg/day has been shown to be effective in primary generalised tonic-clonic seizures.

The following table summarises the recommended posology for adults, adolescents and children from 7 years of age. More details are provided below the table.

<table>
<thead>
<tr>
<th></th>
<th>Adult/adolescent (12 years and older)</th>
<th>Children (7 – 11 years); weighing:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>≥ 30 kg</td>
</tr>
<tr>
<td><strong>Recommended starting dose</strong></td>
<td>2 mg/day</td>
<td>2 mg/day</td>
</tr>
<tr>
<td><strong>Titration (incremental steps)</strong></td>
<td>2 mg/day (no more frequently than weekly intervals)</td>
<td>2 mg/day (no more frequently than weekly intervals)</td>
</tr>
<tr>
<td><strong>Recommended maintenance dose</strong></td>
<td>Up to 8 mg/day</td>
<td>4 – 8 mg/day</td>
</tr>
<tr>
<td><strong>Titration (incremental steps)</strong></td>
<td>2 mg/day (no more frequently than weekly intervals)</td>
<td>2 mg/day (no more frequently than weekly intervals)</td>
</tr>
<tr>
<td><strong>Recommended maximum dose</strong></td>
<td>12 mg/day</td>
<td>12 mg/day</td>
</tr>
</tbody>
</table>

**Adults, adolescents age ≥ 12 years**

Treatment with Fycompa should be initiated at a dose of 2 mg/day. The dose may be increased based on clinical response and tolerability by increments of 2 mg (either weekly or every 2 weeks, as per half-life considerations described below) to a maintenance dose of up to 8 mg/day. Depending upon individual clinical response and tolerability at a dose of 8 mg/day, the dose may be increased up to 12 mg/day, which may be effective in some patients (see section 4.4). Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Children (from 7 to 11 years) weighing ≥ 30 kg**

Treatment with Fycompa should be initiated with a dose of 2 mg/day. The dose may be increased based on clinical response and tolerability by increments of 2 mg (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day to 8 mg/day. Depending upon individual clinical response and tolerability at a dose of 8 mg/day, the dose may be increased by increments of 2 mg/day to 12 mg/day. Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.
Children (from 7 to 11 years of age) weighing 20 kg and ≤ 30 kg
Treatment with Fycompa should be initiated with a dose of 1 mg/day. The dose may be increased based on clinical response and tolerability by increments of 1 mg (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day to 6 mg/day. Depending upon individual clinical response and tolerability at a dose of 6 mg/day, the dose may be increased by increments of 1 mg/day to 8 mg/day. Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

Children (from 7 to 11 years of age) weighing < 20 kg
Treatment with Fycompa should be initiated with a dose of 1 mg/day. The dose may be increased based on clinical response and tolerability by increments of 1 mg (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 2 mg/day to 4 mg/day. Depending upon individual clinical response and tolerability at a dose of 4 mg/day, the dose may be increased by increments of 0.5 mg/day to 6 mg/day. Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

Withdrawal
It is recommended that discontinuation be undertaken gradually to minimise the potential for rebound seizures. However, due to its long half-life and subsequent slow decline in plasma concentrations, perampanel can be discontinued abruptly if absolutely needed.

Missed doses
Single missed dose: As perampanel has a long half-life, the patient should wait and take their next dose as scheduled.

If more than 1 dose has been missed, for a continuous period of less than 5 half-lives (3 weeks for patients not taking perampanel metabolism-inducing anti-epileptic drugs (AED), 1 week for patients taking perampanel metabolism-inducing AEDs (see section 4.5)), consideration should be given to re-start treatment from the last dose level.

If a patient has discontinued perampanel for a continuous period of more than 5 half-lives, it is recommended that initial dosing recommendations given above should be followed.

Elderly (65 years of age and above)
Clinical studies of Fycompa in epilepsy did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. Analysis of safety information in 905 perampanel-treated elderly patients (in double-blind studies conducted in non-epilepsy indications) revealed no age-related differences in the safety profile. In combination with the lack of age-related difference in perampanel exposure, the results indicate that dose-adjustment in the elderly is not required. Perampanel should be used with caution in elderly taking into account the drug interaction potential in polymedicated patients (see section 4.4).

Renal impairment
Dose adjustment is not required in patients with mild renal impairment. Use in patients with moderate or severe renal impairment or patients undergoing haemodialysis is not recommended.

Hepatic impairment
Dose increases in patients with mild and moderate hepatic impairment should be based on clinical response and tolerability. For patients with mild or moderate hepatic impairment, dosing can be
initiated at 2 mg. Patients should be up-titrated using 2 mg doses no faster than every 2 weeks based on tolerability and effectiveness. Perampanel dosing for patients with mild and moderate impairment should not exceed 8 mg. Use in patients with severe hepatic impairment is not recommended.

**Paediatric population**

The safety and efficacy of perampanel have not yet been established in children below 4 years of age in the POS indication or in children below 7 years of age in the PGTCS indication.

**Method of administration**

Fycompa should be taken as single oral dose at bedtime. It may be taken with or without food (see section 5.2). The tablet should be swallowed whole with a glass of water. It should not be chewed, crushed or split. The tablets cannot be split accurately as there is no break line.

**4.3 Contraindications**

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

**4.4 Special warnings and precautions for use**

**Suicidal ideation**

Suicidal ideation and behaviour have been reported in patients treated with anti-epileptic medicinal products in several indications. A meta-analysis of randomised placebo-controlled trials of anti-epileptic medicinal products has also shown a small increased risk of suicidal ideation and behaviour. The mechanism of this risk is not known and the available data do not exclude the possibility of an increased risk for perampanel.

Therefore, patients (children, adolescents, and adults) should be monitored for signs of suicidal ideation and behaviours and appropriate treatment should be considered. Patients (and caregivers of patients) should be advised to seek medical advice should signs of suicidal ideation or behaviour emerge.

**Severe cutaneous adverse reactions (SCARs)**

Severe cutaneous adverse reactions (SCARs) including drug reaction with eosinophilia and systemic symptoms (DRESS) and Stevens-Johnson Syndrome (SJS), which can be life-threatening or fatal, have been reported (frequency unknown; see section 4.8) in association with perampanel treatment.

At the time of prescription patients should be advised of the signs and symptoms and monitored closely for skin reactions.

Symptoms of DRESS include typically, although not exclusively, fever, rash associated with other organ system involvement, lymphadenopathy, liver function tests abnormalities and eosinophilia. It is important to note that early manifestations of hypersensitivity, such as fever or lymphadenopathy, may be present even though rash is not evident.

Symptoms of SJS include typically although not exclusively, skin detachment (epidermal necrosis/blister) < 10%, erythematous skin (confluent), rapid progression, painful atypical target-like lesions and/or purpuric macules in wide dissemination or large erythema (confluent), bullous/erosive involvement of more than 2 mucous membranes.

If signs and symptoms suggestive of these reactions appear, perampanel should be withdrawn immediately and an alternative treatment considered (as appropriate).
If the patient has developed a serious reaction such as SJS or DRESS with the use of perampanel, treatment with perampanel must not be restarted in this patient at any time.

Absence and myoclonic seizures

Absence and myoclonic seizures are two common generalised seizure types that frequently occur in IGE patients. Other AEDs are known to induce or aggravate these seizure types. Patients with myoclonic seizures and absence seizures should be monitored while on Fycompa.

Nervous system disorders

Perampanel may cause dizziness and somnolence and therefore may influence the ability to drive or use machines (see section 4.7).

Hormonal contraceptives

At doses of 12 mg/day Fycompa may decrease the effectiveness of progestative-containing hormonal contraceptives; in this circumstance additional non-hormonal forms of contraception are recommended when using Fycompa (see sections 4.5 and 4.6).

Falls

There appears to be an increased risk of falls, particularly in the elderly; the underlying reason is unclear.

Aggression

Aggressive and hostile behaviour has been reported in patients receiving perampanel therapy. In perampanel-treated patients in clinical trials, aggression, anger and irritability were reported more frequently at higher doses. Most of the reported events were either mild or moderate and patients recovered either spontaneously or with dose adjustment. However, thoughts of harming others, physical assault or threatening behaviour were observed in some patients (<1% in perampanel clinical studies). Homicidal ideation has been reported in patients. Patients and caregivers should be counselled to alert a healthcare professional immediately if significant changes in mood or patterns of behaviour are noted. The dosage of perampanel should be reduced if such symptoms occur and should be discontinued immediately if symptoms are severe.

Abuse potential

Caution should be exercised in patients with a history of substance abuse and the patient should be monitored for symptoms of perampanel abuse.

Concomitant CYP 3A inducing anti-epileptic medicinal products

Response rates after addition of perampanel at fixed doses were less when patients received concomitant CYP3A enzyme-inducing anti-epileptic medicinal products (carbamazepine, phenytoin, oxcarbazepine) as compared to response rates in patient who received concomitant non-enzyme-inducing anti-epileptic medicinal products. Patients’ response should be monitored when they are switching from concomitant non-inducer anti-epileptic medicinal products to enzyme inducing medicinal products and vice versa. Depending upon individual clinical response and tolerability, the dose may be increased or decreased 2 mg at a time (see section 4.2).
Other concomitant (non-anti-epileptic) cytochrome P450 inducing or inhibiting medicinal products

Patients should be closely monitored for tolerability and clinical response when adding or removing cytochrome P450 inducers or inhibitors, since perampanel plasma levels can be decreased or increased; the dose of perampanel may need to be adjusted accordingly.

Hepatotoxicity

Cases of hepatotoxicity (mainly hepatic enzyme increased) with perampanel in combination with other antiepileptic drugs have been reported. If hepatic enzymes elevation is observed, monitoring of liver function should be considered.

Excipients

Lactose intolerance

Fycompa tablets contain lactose, therefore patients with rare hereditary problems of galactose intolerance, the Lapp lactase deficiency or glucose-galactose malabsorption should not take this medicine.

4.5 Interaction with other medicinal products and other forms of interaction

Fycompa is not considered a strong inducer or inhibitor of cytochrome P450 or UGT enzymes (see section 5.2).

Hormonal contraceptives

In healthy women receiving 12 mg (but not 4 or 8 mg/day) for 21 days concomitantly with a combined oral contraceptive, Fycompa was shown to decrease the levonorgestrel exposure (mean $C_{\text{max}}$ and AUC values were each decreased by 40%). Ethinylestradiol AUC was not affected by Fycompa 12 mg whereas $C_{\text{max}}$ was decreased by 18%. Therefore, the possibility of decreased efficacy of hormonal progestative-containing contraceptives should be considered for women needing Fycompa 12 mg/day and an additional reliable method (intra-uterine device (IUD), condom) is to be used (see section 4.4).

Interactions between Fycompa and other anti-epileptic medicinal products

Potential interactions between Fycompa and other anti-epileptic drugs (AEDs) were assessed in clinical studies. A population PK analysis of three pooled Phase 3 studies in adolescent and adult patients with partial-onset seizures evaluated the effect of Fycompa (up to 12 mg once daily) on the PK of other AEDs. In another population PK analysis of pooled data from twenty Phase 1 studies in healthy subjects, with Fycompa up to 36 mg, and one Phase 2 and six Phase 3 studies in paediatric, adolescent, and adult patients with partial-onset seizures or primary generalised tonic-clonic seizures, with Fycompa up to 16 mg once daily, evaluated the effect of concomitant AEDs of perampanel clearance. The effect of these interactions on average steady state concentration is summarised in the following table.
### Table: Influence of AED on Fycompa Concentration and Influence of Fycompa on AED Concentration

<table>
<thead>
<tr>
<th>AED coadministered</th>
<th>Influence of AED on Fycompa concentration</th>
<th>Influence of Fycompa on AED concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbamazepine</td>
<td>3 fold decrease</td>
<td>&lt;10% decrease</td>
</tr>
<tr>
<td>Clobazam</td>
<td>No influence</td>
<td>&lt;10% decrease</td>
</tr>
<tr>
<td>Clonazepam</td>
<td>No influence</td>
<td>No influence</td>
</tr>
<tr>
<td>Lamotrigine</td>
<td>No influence</td>
<td>&lt;10% decrease</td>
</tr>
<tr>
<td>Levetiracetam</td>
<td>No influence</td>
<td>No influence</td>
</tr>
<tr>
<td>Oxcarbazepine</td>
<td>2 fold decrease</td>
<td>35% increase 1)</td>
</tr>
<tr>
<td>Phenobarbital</td>
<td>20% decrease</td>
<td>No influence</td>
</tr>
<tr>
<td>Phenytoin</td>
<td>2 fold decrease</td>
<td>No influence</td>
</tr>
<tr>
<td>Topiramate</td>
<td>20% decrease</td>
<td>No influence</td>
</tr>
<tr>
<td>Valproic Acid</td>
<td>No influence</td>
<td>&lt;10% decrease</td>
</tr>
<tr>
<td>Zonisamide</td>
<td>No influence</td>
<td>No influence</td>
</tr>
</tbody>
</table>

1) Active metabolite monohydroxycarbazepine was not assessed.

Based on the results from the population pharmacokinetic analysis of patients with partial-onset seizures and patients with primary generalised tonic-clonic seizures the total clearance of Fycompa was increased when co-administered with carbamazepine (3-fold), and phenytoin or oxcarbazepine (2-fold), which are known inducers of enzymes of metabolism (see section 5.2). This effect should be taken into account and managed when adding or withdrawing these anti-epileptic drugs from a patient’s treatment regimen. Clonazepam, levetiracetam, phenobarbital, topiramate, zonisamide, clobazam, lamotrigine and valproic acid did not affect to a clinically relevant manner the clearance of Fycompa.

In a population pharmacokinetic analysis of patients with partial-onset seizures, Fycompa did not affect to a clinically relevant manner the clearance of clonazepam, levetiracetam, phenobarbital, phenytoin, topiramate, zonisamide, carbamazepine, clobazam, lamotrigine and valproic acid, at the highest perampanel dose evaluated (12 mg/day).

Perampanel was found to decrease the clearance of oxcarbazepine by 26%. Oxcarbazepine is rapidly metabolised by cytosolic reductase enzyme to the active metabolite, monohydroxycarbazepine. The effect of perampanel on monohydroxycarbazepine concentrations is not known.

Perampanel is dosed to clinical effect regardless of other AEDs.

**Effect of perampanel on CYP3A substrates**

In healthy subjects, Fycompa (6 mg once daily for 20 days) decreased midazolam AUC by 13%. A larger decrease in exposure of midazolam (or other sensitive CYP3A substrates) at higher Fycompa doses cannot be excluded.

**Effect of cytochrome P450 inducers on perampanel pharmacokinetics**

Strong inducers of cytochrome P450, such as rifampicin and hypericum, are expected to decrease perampanel concentrations and the potential for higher plasma concentrations of reactive metabolites in their presence has not been excluded. Felbamate has been shown to decrease the concentrations of some medicinal products and may also reduce perampanel concentrations.

**Effect of cytochrome P450 inhibitors on perampanel pharmacokinetics**

In healthy subjects, the CYP3A4 inhibitor ketoconazole (400 mg once daily for 10 days) increased perampanel AUC by 20% and prolonged perampanel half-life by 15% (67.8 h vs 58.4 h). Larger effects cannot be excluded when perampanel is combined with a CYP3A inhibitor with longer half-life than ketoconazole or when the inhibitor is given for a longer treatment duration.
Levodopa
In healthy subjects, Fycompa (4 mg once daily for 19 days) had no effect on $C_{\text{max}}$ or AUC of levodopa.

Alcohol
The effects of perampanel on tasks involving alertness and vigilance such as driving ability were additive or supra-additive to the effects of alcohol itself, as found in a pharmacodynamic interaction study in healthy subjects. Multiple dosing of perampanel 12 mg/day increased levels of anger, confusion, and depression as assessed using the Profile of Mood State 5-point rating scale (see section 5.1). These effects may also be seen when Fycompa is used in combination with other central nervous system (CNS) depressants.

Paediatric population
Interaction studies have only been performed in adults. In a population pharmacokinetic analysis of adolescent patients age ≥ 12 years and children age 4 to 11 years, there were no notable differences compared to the adult population.

4.6 Fertility, pregnancy and lactation

Women of childbearing potential and contraception in males and females
Fycompa is not recommended in women of childbearing potential not using contraception unless clearly necessary. Fycompa may decrease the effectiveness of progestative-containing hormonal contraceptives. An additional non-hormonal form of contraception is, therefore recommended (see sections 4.4 and 4.5).

Pregnancy
There are limited amounts of data (less than 300 pregnancy outcomes) from the use of perampanel in pregnant women. Studies in animals did not indicate any teratogenic effects in rats or rabbits, but embryotoxicity was observed in rats at maternally toxic doses (see section 5.3). Fycompa is not recommended during pregnancy.

Breast-feeding
Studies in lactating rats have shown excretion of perampanel and/or its metabolites in milk (for details see section 5.3). It is not known whether perampanel is excreted in human milk. A risk to the newborns/infants cannot be excluded. A decision must be made whether to discontinue breast-feeding or to discontinue/abstain from Fycompa therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

Fertility
In the fertility study in rats, prolonged and irregular oestrous cycles were observed at high-dose (30 mg/kg) in females; however, these changes did not affect the fertility and early embryonic development. There were no effects on male fertility (see section 5.3). The effect of perampanel on human fertility has not been established.

4.7 Effects on ability to drive and use machines
Fycompa has moderate influence on the ability to drive and use machines. Perampanel may cause dizziness and somnolence and, therefore, may influence the ability to drive or use machines. Patients are advised not to drive a vehicle, operate complex machinery or engage in other potentially hazardous activities until it is known whether perampanel affects their ability to perform these tasks (see sections 4.4 and 4.5).
4.8 Undesirable effects

Summary of the safety profile

In all controlled and uncontrolled trials in patients with partial-onset seizures, 1,639 patients have received perampanel of whom 1,147 have been treated for 6 months and 703 for longer than 12 months.

In the controlled and uncontrolled study in patients with primary generalised tonic-clonic seizures, 114 patients have received perampanel of whom 68 have been treated for 6 months and 36 for longer than 12 months.

Adverse reactions leading to discontinuation:
In the controlled Phase 3 partial-onset seizures clinical trials, the rate of discontinuation as a result of an adverse reaction was 1.7% (3/172), 4.2% (18/431) and 13.7% (35/255) in patients randomised to receive perampanel at the recommended doses of 4 mg, 8 mg and 12 mg/day, respectively, and 1.4% (6/442) in patients randomised to receive placebo. The adverse reactions most commonly (≥ 1% in the total perampanel group and greater than placebo) leading to discontinuation were dizziness and somnolence.

In the controlled Phase 3 primary generalised tonic-clonic seizures clinical trial, the rate of discontinuation as a result of an adverse reaction was 4.9% (4/81) in patients randomised to receive perampanel 8 mg, and 1.2% (1/82) in patients randomised to receive placebo. The adverse reaction most commonly leading to discontinuation (≥ 2% in the perampanel group and greater than placebo) was dizziness.

Post-marketing use

Severe cutaneous adverse reactions (SCARs) including drug reaction with eosinophilia and systemic symptoms (DRESS) have been reported in association with perampanel treatment (see section 4.4).

Tabulated list of adverse reactions

In the table below, adverse reactions, which were identified based on review of the full Fycompa clinical studies safety database, are listed by System Organ Class and frequency. The following convention has been used for the classification of adverse reactions: very common (≥ 1/10), common (≥ 1/100 to < 1/10), uncommon (≥ 1/1,000 to < 1/100), not known (cannot be estimated from the available data).

Within each frequency category, adverse reactions are presented in order of decreasing seriousness.
<table>
<thead>
<tr>
<th>System Organ Class</th>
<th>Very common</th>
<th>Common</th>
<th>Uncommon</th>
<th>Not known</th>
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<tbody>
<tr>
<td>Metabolism and nutrition disorders</td>
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<td>Decreased appetite</td>
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<td></td>
<td></td>
<td>Increased appetite</td>
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<tr>
<td>Psychiatric disorders</td>
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<td>Aggression</td>
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<td>Anger</td>
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<td>Anxiety</td>
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<td>Confusional state</td>
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<td></td>
<td>Suicidal ideation</td>
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<td>Suicide attempt</td>
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<tr>
<td>Nervous system disorders</td>
<td>Dizziness</td>
<td>Ataxia</td>
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<td></td>
<td>Somnolence</td>
<td>Dysarthria</td>
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<td>Balance disorder</td>
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<td>Irritability</td>
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<td>Eye disorders</td>
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<td>Diplopia</td>
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<td>Vision blurred</td>
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<td>Ear and labyrinth disorders</td>
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<td>Vertigo</td>
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<tr>
<td>Gastrointestinal disorders</td>
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<td>Nausea</td>
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<tr>
<td>Skin and subcutaneous tissue disorders</td>
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<td>Drug Reaction with</td>
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<td></td>
<td></td>
<td>Eosinophilia and</td>
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<td></td>
<td></td>
<td>Systemic Symptoms (DRESS)*</td>
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<td></td>
<td></td>
<td>Stevens - Johnson Syndrome (SJS)*</td>
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<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Back pain</td>
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<tr>
<td>General disorders</td>
<td></td>
<td>Gait disturbance</td>
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<td></td>
<td></td>
<td>Fatigue</td>
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<td></td>
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<tr>
<td>Investigations</td>
<td></td>
<td>Weight increased</td>
<td></td>
<td></td>
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<tr>
<td>Injury, poisoning and procedural complications</td>
<td></td>
<td>Fall</td>
<td></td>
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</tbody>
</table>

* See section 4.4

Paediatric population

Based on the clinical trial database of 196 adolescents exposed to perampanel from double-blind studies for partial-onset seizures and primary generalised tonic-clonic seizures, the overall safety profile in adolescents was similar to that of adults, except for aggression, which was observed more frequently in adolescents than in adults.

Based on the clinical trial database of 180 paediatric patients exposed to perampanel from a multicentre, open label study, the overall safety profile in children was similar to that established for adolescents and adults, except for somnolence, irritability, aggression, and agitation which were observed more frequently in the paediatric study compared to studies in adolescents and adults.

Available data in children did not suggest any clinically significant effects of perampanel on growth and development parameters including body weight, height, thyroid function, insulin-like growth factor-1 (IGF-1) level, cognition (as assessed by Aldenkamp-Baker neuropsychological assessment schedule [ABNAS]), behaviour (as assessed by Child Behavior Checklist [CBCL]), and dexterity (as assessed by Lafayette Grooved Pegboard Test [LGPT]). However, long term effects [greater than 1 year] on learning, intelligence, growth, endocrine function, and puberty in children remain unknown.
Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 Overdose

There have been post-marketing cases of intentional and accidental overdose in paediatric patients with doses of perampanel up to 36 mg and in adult patients with doses up to 300 mg. The adverse reactions observed included altered mental status, agitation, aggressive behaviour, coma and depressed level of consciousness. The patients recovered without sequelae.

There is no available specific antidote to the effects of perampanel.

General supportive care of the patient is indicated including monitoring of vital signs and observation of the clinical status of the patient. In view of its long half-life, the effects caused by perampanel could be prolonged. Because of low renal clearance special interventions such as forced diuresis, dialysis or haemoperfusion are unlikely to be of value.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: antiepileptics, other antiepileptics, ATC code: N03AX22

Mechanism of action

Perampanel is a first-in-class selective, non-competitive antagonist of the ionotropic α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) glutamate receptor on post-synaptic neurons. Glutamate is the primary excitatory neurotransmitter in the central nervous system and is implicated in a number of neurological disorders caused by neuronal overexcitation. Activation of AMPA receptors by glutamate is thought to be responsible for most fast excitatory synaptic transmission in the brain. In vitro studies, perampanel did not compete with AMPA for binding to the AMPA receptor, but perampanel binding was displaced by noncompetitive AMPA receptor antagonists, indicating that perampanel is a noncompetitive AMPA receptor antagonist. In vitro, perampanel inhibited AMPA-induced (but not NMDA-induced) increase in intracellular calcium. In vivo, perampanel significantly prolonged seizure latency in an AMPA-induced seizure model.

The precise mechanism by which perampanel exerts its antiepileptic effects in humans remains to be fully elucidated.

Pharmacodynamic effects

A pharmacokinetic-pharmacodynamic (efficacy) analysis was performed based on the pooled data from the 3 efficacy trials for partial-onset seizures. In addition, a pharmacokinetic-pharmacodynamic (efficacy) analysis was performed in one efficacy trial for primary generalised tonic-clonic seizures. In both analyses, perampanel exposure is correlated with reduction in seizure frequency.

Psychomotor performance

Single and multiple doses of 8 mg and 12 mg impaired psychomotor performance in healthy volunteers in a dose-related manner. The effects of perampanel on complex tasks such as driving ability were additive or supra-additive to the impairment effects of alcohol. Psychomotor performance testing returned to baseline within 2 weeks of cessation of perampanel dosing.
Cognitive function
In a healthy volunteer study to assess the effects of perampanel on alertness and memory using a standard battery of assessments, no effects of perampanel were found following single and multiple doses of perampanel up to 12 mg/day.

In a placebo-controlled study conducted in adolescent patients, no significant changes in cognition relative to placebo as measured by Cognitive Drug Research (CDR) System Global Cognition Score were observed for perampanel. In the open label extension, no significant changes were observed in global CDR system score after 52 weeks of perampanel treatment (see section 5.1 Paediatric population).

In an open-label uncontrolled study conducted in paediatric patients, no clinically important changes in cognition relative to baseline as measured by ABNAS were observed following adjunctive perampanel therapy (see section 5.1 Paediatric population).

Alertness and mood
Levels of alertness (arousal) decreased in a dose-related manner in healthy subjects dosed with perampanel from 4 to 12 mg/day. Mood deteriorated following dosing of 12 mg/day only; the changes in mood were small and reflected a general lowering of alertness. Multiple dosing of perampanel 12 mg/day also enhanced the effects of alcohol on vigilance and alertness, and increased levels of anger, confusion and depression as assessed using the Profile of Mood State 5-point rating scale.

Cardiac electrophysiology
Perampanel did not prolong the QTc interval when administered in daily doses up to 12 mg/day, and did not have a dose-related or clinically important effect on QRS duration.

Clinical efficacy and safety

Partial-Onset Seizures
The efficacy of perampanel in partial-onset seizures was established in three adjunctive therapy 19 week, randomised, double-blind, placebo-controlled, multicentre trials in adult and adolescent patients. Patients had partial-onset seizures with or without secondary generalisation and were not adequately controlled with one to three concomitant AEDs. During a 6-week baseline period, patients were required to have more than five seizures with no seizure-free period exceeding 25 days. In these three trials, patients had a mean duration of epilepsy of approximately 21.06 years. Between 85.3% and 89.1% of patients were taking two to three concomitant AEDs with or without concurrent vagal nerve stimulation.

Two studies (studies 304 and 305) compared doses of perampanel 8 and 12 mg/day with placebo and the third study (study 306) compared doses of perampanel 2, 4 and 8 mg/day with placebo. In all three trials, following a 6-week Baseline Phase to establish baseline seizure frequency prior to randomisation, patients were randomised and titrated to the randomised dose. During the Titration Phase in all three trials, treatment was initiated at 2 mg/day and increased in weekly increments of 2 mg/day to the target dose. Patients experiencing intolerable adverse events could remain on the same dose or have their dose decreased to the previously tolerated dose. In all three trials, the Titration Phase was followed by a Maintenance Phase that lasted 13 weeks, during which patients were to remain on a stable dose of perampanel.

The pooled 50% responder rates were placebo 19%, 4 mg 29%, 8 mg 35% and 12 mg 35%. A statistically significant effect on the reduction in 28-day seizure frequency (Baseline to Treatment Phase) as compared to the placebo group was observed with perampanel treatment at doses of 4 mg/day (Study 306), 8 mg/day (Studies 304, 305 and 306), and 12 mg/day (Studies 304 and 305). The 50% responder rates in the 4 mg, 8 mg and 12 mg groups were respectively 23.0%, 31.5%, and 30.0% in combination with enzyme-inducing anti-epileptic medicinal products and were 33.3%, 46.5% and 50.0% when perampanel was given in combination with non-enzyme-inducing
anti-epileptic medicinal products. These studies show that once-daily administration of perampanel at doses of 4 mg to 12 mg was significantly more efficacious than placebo as adjunctive treatment in this population.

Data from placebo-controlled studies demonstrate that improvement in seizure control is observed with a once-daily perampanel dose of 4 mg and this benefit is enhanced as the dose is increased to 8 mg/day. No efficacy benefit was observed at the dose of 12 mg as compared to the dose of 8 mg in the overall population. Benefit at the dose of 12 mg was observed in some patients who tolerate the dose of 8 mg and when the clinical response to that dose was insufficient. A clinically meaningful reduction in seizure frequency relative to placebo was achieved as early as the second week of dosing when patients reached a daily dose of 4 mg.

1.7 to 5.8% of the patients on perampanel in the clinical studies became seizure free during the 3 month maintenance period compared with 0%-1.0% on placebo

Open label extension study

Ninety-seven percent of the patients who completed the randomised trials in patients with partial-onset seizures were enrolled in the open label extension study (n = 1186). Patients from the randomised trial were converted to perampanel over 16 weeks followed by a long-term maintenance period (≥ 1 year). The mean average daily dose was 10.05 mg.

Primary Generalised Tonic-Clonic Seizures

Perampanel as adjunctive therapy in patients 12 years of age and older with idiopathic generalised epilepsy experiencing primary generalised tonic-clonic seizures was established in a multicentre, randomised, double-blind, placebo-controlled study (Study 332). Eligible patients on a stable dose of 1 to 3 AEDs experiencing at least 3 primary generalised tonic-clonic seizures during the 8-week baseline period were randomised to either perampanel or placebo. The population included 164 patients (perampanel N = 82, placebo N = 82). Patients were titrated over four weeks to a target dose of 8 mg per day or the highest tolerated dose and treated for an additional 13 weeks on the last dose level achieved at the end of the titration period. The total treatment period was 17 weeks. Study drug was given once per day.

The 50% primary generalised tonic-clonic seizures responder rate during the Maintenance Period was significantly higher in the perampanel group (58.0%) than in the placebo group (35.8%), P = 0.0059. The 50% responder rate was 22.2% in combination with enzyme-inducing anti-epileptic medicinal products and was 69.4% when perampanel was given in combination with non-enzyme-inducing anti-epileptic medicinal products. The number of perampanel patients taking enzyme-inducing anti-epileptic medicinal products was small (n = 9). The median percent change in primary generalised tonic-clonic seizure frequency per 28 days during the Titration and Maintenance Periods (combined) relative to Prerandomisation was greater with perampanel (-76.5%) than with placebo (-38.4%), P < 0.0001. During the 3 months maintenance period, 30.9% (25/81) of the patients on perampanel in the clinical studies became free of PGTC seizures compared with 12.3% (10/81) on placebo.

Other subtypes of idiopathic generalised seizure

The efficacy and safety of perampanel in patients with myoclonic seizures have not been established. The available data are insufficient to reach any conclusions.

The efficacy of perampanel in the treatment of absence seizures has not been demonstrated. In Study 332, in patients with PGTC seizures who also had concomitant myoclonic seizures, freedom from seizures was achieved in 16.7% (4/24) on perampanel compared to 13.0% (3/23) in those on placebo. In patients with concomitant absence seizures, freedom from seizures was achieved in 22.2% (6/27) on perampanel compared to 12.1% (4/33) on placebo. Freedom from all seizures was achieved in 23.5% (19/81) of patients on perampanel compared to 4.9% (4/81) of patients on placebo.

Open label extension phase

Of the 140 patients who completed the Study 332, 114 patients (81.4%) had entered the Extension phase. Patients from the randomised trial were converted to perampanel over 6 weeks followed by a
long-term maintenance period (≥ 1 year). In the Extension Phase, 73.7% (84/114) of patients have a modal daily perampanel dose of greater than 4 to 8 mg/day and 16.7% (19/114) had a modal daily dose of greater than 8 to 12 mg/day. A decrease in PGTC seizure frequency of at least 50% was seen in 65.9% (29/44) of patients after 1 year of treatment during the Extension Phase (relative to their pre-perampanel baseline seizure frequency). These data were consistent with those for percent change in seizure frequency and showed that the PGTC 50% responder rate was generally stable across time from about week 26 through the end of year 2. Similar results were seen when all seizures and absence vs. myoclonic seizures were evaluated over time.

**Conversion to monotherapy**

In a retrospective study of clinical practice, 51 patients with epilepsy who received perampanel as adjunctive treatment converted to perampanel monotherapy. The majority of these patients had a history of partial onset seizures. Of these, 14 patients (27%) reverted to adjunctive therapy in the following months. Thirty four (34) patients were followed up for at least 6 months and, of these, 24 patients (71%) remained on perampanel monotherapy for at least 6 months. Ten (10) patients were followed up for at least 18 months and, of these, 3 patients (30%) remained on perampanel monotherapy for at least 18 months.

**Paediatric population**

The European Medicines Agency has deferred the obligation to submit the results of studies with Fycompa in one or more subsets of the paediatric population in treatment-resistant epilepsies (localisation-related and age-related epilepsy syndromes) (see section 4.2 for information on adolescent and paediatric use).

The three pivotal double-blind placebo-controlled phase 3 studies included 143 adolescents between the ages of 12 and 18. The results in these adolescents were similar to those seen in the adult population.

Study 332 included 22 adolescents between the ages of 12 and 18. The results in these adolescents were similar to those seen in the adult population.

A 19-week, randomised, double-blind, placebo-controlled study with an open-label extension phase (Study 235) was performed to assess the short-term effects on cognition of Fycompa (target dose range of 8 to 12 mg once daily) as adjunctive therapy in 133 (Fycompa n = 85, placebo n = 48) adolescent patients, aged 12 to less than 18 years old, with inadequately controlled partial-onset seizures. Cognitive function was assessed by the Cognitive Drug Research (CDR) System Global Cognition t-Score, which is a composite score derived from 5 domains testing Power of Attention, Continuity of Attention, Quality of Episodic Secondary Memory, Quality of Working Memory, and Speed of Memory. The mean change (SD) from baseline to end of double-blind treatment (19 weeks) in CDR System Global Cognition t-Score was 1.1 (7.14) in the placebo group and (minus) –1.0 (8.86) in the perampanel group, with the difference between the treatment groups in LS means (95% CI) = (minus) -2.2 (-5.2, 0.8). There was no statistically significant difference between the treatment groups (p = 0.145). CDR System Global Cognition t-Scores for placebo and perampanel were 41.2 (10.7) and 40.8 (13.0), respectively at the baseline. For patients with perampanel in the open label extension (n = 112), the mean change (SD) from baseline to end of open-label treatment (52 weeks) in CDR System Global Cognition t-Score was (minus) -1.0 (9.91). This was not statistically significant (p = 0.96). After up to 52 weeks of treatment with perampanel (n = 114), no effect on bone growth was observed. No effects on weight, height and sexual development were seen following up to 104 weeks of treatment (n = 114).

An open-label, uncontrolled study (Study 311) was performed to assess the exposure-efficacy relationship of perampanel as adjunctive therapy in 180 paediatric patients (aged 4 to 11 years old) with inadequately controlled partial-onset seizures or primary generalised tonic-clonic seizures. Patients were titrated over 11 weeks to a target dose of 8 mg/day or the maximum tolerated dose (not to exceed 12 mg/day) for patients not taking concomitant CYP3A-inducing antiepileptic drugs
(carbamazepine, oxcarbazepine, eslicarbazepine and phenytoin) or 12 mg/day or the maximum tolerated dose (not to exceed 16 mg/day) for patients taking a concomitant CYP3A-inducing antiepileptic drug. Perampanel dose achieved at the end of titration was maintained for 12 weeks (for a total of 23 weeks of exposure) at the completion of the core study. Patients who entered into Extension Phase were treated for an additional 29 weeks for a total exposure duration of 52 weeks.

In patients with partial-onset seizures (n = 148 patients), the median change in seizure frequency per 28 days, the 50% or greater responder rate, and seizure-free rate following 23 weeks of perampanel treatment were -40.1%, 46.6% (n = 69/148), and 11.5% (n = 17/148), respectively, for total partial-onset seizures. The treatment effects on the median reduction in seizure frequency (Weeks 40-52: n = 108 patients, -69.4%), 50% responder rate (Weeks 40-52: 62.0%, n = 67/108), and seizure-free rate (Weeks 40-52: 13.0%, n = 14/108) were sustained following 52 weeks of perampanel treatment.

In a subset of partial-onset seizure patients with secondarily generalised seizures (n = 54 patients), the corresponding values were -58.7%, 64.8% (n = 35/54), and 18.5% (n = 10/54), respectively, for secondarily generalised tonic-clonic seizures. The treatment effects on the median reduction in seizure frequency (Weeks 40-52: n = 41 patients, -73.8%), 50% responder rate (Weeks 40-52: 80.5%, n = 33/41), and seizure-free rate (Weeks 40-52: 24.4%, n = 10/41) were sustained following 52 weeks of perampanel treatment.

In patients with primary generalised tonic-clonic seizures (n = 22 patients, with 19 patients aged 7-<12 years and 3 patients aged 4-<7 years), the median change in seizure frequency per 28 days, the 50% or greater responder rate, and seizure-free rate were -69.2%, 63.6% (n = 14/22), and 54.5% (n = 12/22), respectively. The treatment effects on the median reduction in seizure frequency (Weeks 40-52: n = 13 patients, -100.0%), 50% responder rate (Weeks 40-52: 61.5%, n = 8/13), and seizure-free rate (Weeks 40-52: 24.4%, n = 5/13) were sustained following 52 weeks of perampanel treatment. These results should be considered cautiously as the number of patients is very small.

Similar results were obtained in a subset of patients with primary generalised tonic-clonic seizures of idiopathic generalised epilepsy (IGE) (n = 19 patients, with 17 patients aged 7-<12 years and 2 patients aged 4-<7 years; the corresponding values were -56.5%, 63.2% (n = 12/19), and 52.6% (n = 10/19), respectively. The treatment effects on the median reduction in seizure frequency (Weeks 40-52: n = 11 patients, -100.0%), 50% responder rate (Weeks 40-52: 54.5%, n = 6/11), and seizure-free rate (Weeks 40-52: 36.4%, n = 4/11) were sustained following 52 weeks of perampanel treatment. These results should be considered cautiously as the number of patients is very small.

5.2 Pharmacokinetic properties

The pharmacokinetics of perampanel have been studied in healthy adult subjects (age range 18 to 79), adults, adolescents, and paediatric patients with partial-onset seizures and primary generalised tonic-clonic seizures, adults with Parkinson’s disease, adults with diabetic neuropathy, adults with multiple sclerosis, and patients with hepatic impairment.

Absorption

Perampanel is readily absorbed after oral administration with no evidence of marked first-pass metabolism. Co-administration of perampanel tablets with a high fat meal had no impact on the peak plasma exposure (C_{max}) or total exposure (AUC_{0-last}) of perampanel. The t_{max} was delayed by approximately 1 hour compared to that under fasted conditions.

Distribution

Data from in vitro studies indicate that perampanel is approximately 95% bound to plasma proteins.
In vitro studies show that perampanel is not a substrate or significant inhibitor of organic anion transporting polypeptides (OATP) 1B1 and 1B3, organic anion transporters (OAT) 1, 2, 3, and 4, organic cation transporters (OCT) 1, 2, and 3, and the efflux transporters P-glycoprotein and Breast Cancer Resistance Protein (BCRP).

**Biotransformation**

Perampanel is extensively metabolised via primary oxidation and sequential glucuronidation. The metabolism of perampanel is mediated primarily by CYP3A based on clinical study results in healthy subjects administered radiolabelled perampanel and supported by in vitro studies using recombinant human CYPs and human liver microsomes.

Following administration of radiolabelled perampanel, only trace amounts of perampanel metabolites were observed in plasma.

**Elimination**

Following administration of a radiolabelled perampanel dose to either 8 healthy adults or elderly subjects, approximately 30% of recovered radioactivity was found in the urine and 70% in the faeces. In urine and faeces, recovered radioactivity was primarily composed of a mixture of oxidative and conjugated metabolites. In a population pharmacokinetic analysis of pooled data from 19 Phase 1 studies, the average $t_{1/2}$ of perampanel was 105 hours. When dosed in combination with the strong CYP3A inducer carbamazepine, the average $t_{1/2}$ was 25 hours.

**Linearity/non-linearity**

In a population PK analysis on pooled data from twenty Phase 1 studies in healthy subjects receiving perampanel between 0.2 and 36 mg either as single or multiple doses, one Phase 2 and five Phase 3 studies in patients with partial-onset seizure receiving perampanel between 2 and 16 mg/day and two Phase 3 studies in patients with primary generalised tonic-clonic seizures receiving perampanel between 2 and 14 mg/day a linear relationship was found between dose and perampanel plasma concentrations.

**Special populations**

**Hepatic impairment**

The pharmacokinetics of perampanel following a single 1 mg dose were evaluated in 12 patients with mild and moderate hepatic impairment (Child-Pugh A and B, respectively) compared with 12 healthy, demographically matched subjects. The mean apparent clearance of unbound perampanel in mildly impaired patients was 188 ml/min vs. 338 ml/min in matched controls, and in moderately impaired patients was 120 ml/min vs. 392 ml/min in matched controls. The $t_{1/2}$ was longer in mildly impaired (306 h vs. 125 h) and moderately impaired (295 h vs. 139 h) patients compared to matched healthy subjects.

**Renal impairment**

The pharmacokinetics of perampanel have not been formally evaluated in patients with renal impairment. Perampanel is eliminated almost exclusively by metabolism followed by rapid excretion of metabolites; only trace amounts of perampanel metabolites are observed in plasma. In a population pharmacokinetic analysis of patients with partial-onset seizures having creatinine clearances ranging from 39 to 160 mL/min and receiving perampanel up to 12 mg/day in placebo-controlled clinical trials, perampanel clearance was not influenced by creatinine clearance. In a population pharmacokinetic analysis of patients with primary generalised tonic-clonic seizures receiving perampanel up to 8 mg/day in a placebo-controlled clinical study, perampanel clearance was not influenced by baseline creatinine clearance.
Gender
In a population pharmacokinetic analysis of patients with partial-onset seizures receiving perampanel up to 12 mg/day and patients with primary generalised tonic-clonic seizures receiving perampanel up to 8 mg/day in placebo-controlled clinical trials, perampanel clearance in females (0.54 l/h) was 18% lower than in males (0.66 l/h).

Elderly (65 years of age and above)
In a population pharmacokinetic analysis of patients with partial-onset seizures (age range 12 to 74 years) and primary generalised tonic-clonic seizures (age range 12 to 58 years), and receiving perampanel up to 8 or 12 mg/day in placebo-controlled clinical trials, no significant effect of age on perampanel clearance was found. A dose adjustment in the elderly is not considered to be necessary (see section 4.2).

Paediatric population
In a population pharmacokinetic analysis on pooled data from children aged 4 to 11 years, adolescent patients aged ≥12 years, and adults, perampanel clearance increased with an increase in body weight. Hence, dose adjustment in children aged 4 to 11 years with a body weight < 30 kg is necessary (see section 4.2).

Drug interaction studies

In vitro assessment of drug interactions

Drug metabolising enzyme inhibition
In human liver microsomes, perampanel (30 µmol/l) had a weak inhibitory effect on CYP2C8 and UGT1A9 among major hepatic CYPs and UGTs.

Drug metabolising enzyme induction
Compared with positive controls (including phenobarbital, rifampicin), perampanel was found to weakly induce CYP2B6 (30 µmol/l) and CYP3A4/5 (≥ 3 µmol/l) among major hepatic CYPs and UGTs in cultured human hepatocytes.

5.3 Preclinical safety data

Adverse reactions not observed in clinical studies, but seen in animals at exposure levels similar to clinical exposure levels and with possible relevance to clinical use were as follows:

In the fertility study in rats, prolonged and irregular oestrous cycles were observed at the maximum tolerated dose (30 mg/kg) in females; however, these changes did not affect fertility and early embryonic development. There were no effects on male fertility.

The excretion into breast milk was measured in rats at 10 days post-partum. Levels peaked at one hour and were 3.65 times the levels in plasma.

In a pre- and postnatal development toxicity study in rats, abnormal delivery and nursing conditions were observed at maternally toxic doses, and the number of stillbirths was increased in offspring. Behavioural and reproductive development of the offspring was not affected, but some parameters of physical development showed some delay, which is probably secondary to the pharmacology-based CNS effects of perampanel. The placental transfer was relatively low; 0.09% or less of administered dose was detected in the foetus.

Nonclinical data reveal that perampanel was not genotoxic and had no carcinogenic potential. The administration of maximum tolerated doses to rats and monkeys resulted in pharmacologically-based CNS clinical signs and decreased terminal body weight. There were no changes directly attributable to perampanel in clinical pathology or histopathology.
6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Fycompa 2 mg, 4 mg film-coated tablets

Core
Lactose monohydrate
Low-substituted hydroxypropyl cellulose
Povidone K-29/32
Magnesium stearate (E470b)

Fycompa 6 mg, 8 mg, 10 mg, 12 mg film-coated tablets

Core
Lactose monohydrate
Low-substituted hydroxypropyl cellulose
Povidone K-29/32
Microcrystalline cellulose
Magnesium stearate (E470b)

Fycompa 2 mg film-coated tablets

Film coating
Hyromellose 2910
Talc
Macrogol 8000
Titanium dioxide (E171)
Ferric oxide, yellow (E172)
Ferric oxide, red (E172)

Fycompa 4 mg film-coated tablets

Film coating
Hyromellose 2910
Talc
Macrogol 8000
Titanium dioxide (E171)
Ferric oxide, red (E172)

Fycompa 6 mg film-coated tablets

Film coating
Hyromellose 2910
Talc
Macrogol 8000
Titanium dioxide (E171)
Ferric oxide, red (E172)

Fycompa 8 mg film-coated tablets

Film coating
Hyromellose 2910
Talc
Macrogol 8000
Titanium dioxide (E171)
Ferric oxide, red (E172)
Ferric oxide, black (E172)

Fycompa 10 mg film-coated tablets

Film coating
Hypromellose 2910
Talc
Macrogol 8000
Titanium dioxide (E171)
Ferric oxide, yellow (E172)
FD&C Blue #2 Indigo carmine aluminium lake (E132)

Fycompa 12 mg film-coated tablets

Film coating
Hypromellose 2910
Talc
Macrogol 8000
Titanium dioxide (E171)
FD&C Blue #2 Indigo carmine aluminium lake (E132)

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

5 years

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

PVC/aluminium blisters

Fycompa 2 mg film-coated tablets
Pack of 7 only for first week of dosing, 28 and 98

Fycompa 4 mg film-coated tablets
4 mg – packs of 7, 28, 84 and 98

Fycompa 6 mg film-coated tablets
6 mg – packs of 7, 28, 84 and 98

Fycompa 8 mg film-coated tablets
8 mg – packs of 7, 28, 84 and 98

Fycompa 10 mg film-coated tablets
10 mg – packs of 7, 28, 84 and 98

Fycompa 12 mg film-coated tablets
12 mg – packs of 7, 28, 84 and 98
Not all pack sizes may be marketed.

6.6 Special precautions for disposal

No special requirements.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany
e-mail: medinfo_de@eisai.net

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/12/776/001-023

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 23 July 2012
Date of latest renewal: 6 April 2017

10. DATE OF REVISION OF THE TEXT

{MM/YYYY}

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.
1. NAME OF THE MEDICINAL PRODUCT

Fycompa 0.5 mg/ml oral suspension

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml of oral suspension contains 0.5 mg perampanel

Each bottle of 340 ml contains 170 mg perampanel

Excipient with known effect:
Each ml of oral suspension contains 175 mg sorbitol (E420).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Oral suspension
White to off-white suspension

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Fycompa (perampanel) is indicated for the adjunctive treatment of
- partial-onset seizures (POS) with or without secondarily generalised seizures in patients from
4 years of age and older.
- primary generalised tonic-clonic (PGTC) seizures in patients from 7 years of age and older with
idiopathic generalised epilepsy (IGE).

4.2 Posology and method of administration

Posology

Fycompa must be titrated, according to individual patient response, in order to optimise the balance
between efficacy and tolerability.
Perampanel suspension should be taken orally once daily at bedtime.
It may be taken with or without food, but preferably always under the same conditions. Switching
between the tablet and suspension formulation should be done with caution (see section 5.2).
The physician should prescribe the most appropriate formulation and strength according to weight and
dose.

Partial-Onset Seizures
Perampanel at doses of 4 mg/day to 12 mg/day has been shown to be effective therapy in partial-onset
seizures.

The following table summarises the recommended posology for adults, adolescents and children from
4 years of age. More details are provided below the table.
<table>
<thead>
<tr>
<th></th>
<th>Adult/adolescent (12 years and older)</th>
<th>Children (4 – 11 years); weighing:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>≥ 30 kg</td>
</tr>
<tr>
<td><strong>Recommended starting dose</strong></td>
<td>2 mg/day (4 ml/day)</td>
<td>2 mg/day (4 ml/day)</td>
</tr>
<tr>
<td><strong>Titration (incremental steps)</strong></td>
<td>2 mg/day (4 ml/day) (no more frequently than weekly intervals)</td>
<td>2 mg/day (4 ml/day) (no more frequently than weekly intervals)</td>
</tr>
<tr>
<td><strong>Recommended maintenance dose</strong></td>
<td>4 – 8 mg/day (8 – 16 ml/day)</td>
<td>4 – 8 mg/day (8 – 16 ml/day)</td>
</tr>
<tr>
<td><strong>Titration (incremental steps)</strong></td>
<td>2 mg/day (4 ml/day) (no more frequently than weekly intervals)</td>
<td>2 mg/day (4 ml/day) (no more frequently than weekly intervals)</td>
</tr>
<tr>
<td><strong>Recommended maximum dose</strong></td>
<td>12 mg/day (24 ml/day)</td>
<td>12 mg/day (24 ml/day)</td>
</tr>
</tbody>
</table>

**Adults, adolescents age ≥ 12 years**
Treatment with Fycompa should be initiated with a dose of 2 mg/day (4 ml/day). The dose may be increased based on clinical response and tolerability by increments of 2 mg (4 ml) (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day (8 ml/day) to 8 mg/day (16 ml/day). Depending upon individual clinical response and tolerability at a dose of 8 mg/day (16 ml/day), the dose may be increased by increments of 2 mg/day (4 ml/day) to 12 mg/day (24 ml/day). Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Children (from 4 to 11 years) weighing ≥ 30 kg**
Treatment with Fycompa should be initiated with a dose of 2 mg/day (4 ml/day). The dose may be increased based on clinical response and tolerability by increments of 2 mg (4 ml/day) (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day (8 ml/day) to 8 mg/day (16 ml/day). Depending upon individual clinical response and tolerability at a dose of 8 mg/day (16 ml/day), the dose may be increased by increments of 2 mg/day (4 ml/day) to 12 mg/day (24 ml/day). Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Children (from 4 to 11 years of age) weighing 20 kg and < 30 kg**
Treatment with Fycompa should be initiated with a dose of 1 mg/day (2 ml/day). The dose may be increased based on clinical response and tolerability by increments of 1 mg (2 ml/day) (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day (8 ml/day) to 6 mg/day (12 ml/day). Depending upon individual clinical response and tolerability at a dose of 6 mg/day (12 ml/day), the dose may be increased by increments of 1 mg/day (2 ml/day) to 8 mg/day (16 ml/day). Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.
Children (from 4 to 11 years of age) weighing < 20 kg
Treatment with Fycompa should be initiated with a dose of 1 mg/day (2 ml/day). The dose may be increased based on clinical response and tolerability by increments of 1 mg (2 ml/day) (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 2 mg/day (4 ml/day) to 4 mg/day (8 ml/day). Depending upon individual clinical response and tolerability at a dose of 4 mg/day (8 ml/day), the dose may be increased by increments of 0.5 mg/day (1 ml/day) to 6 mg/day (12 ml/day). Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

Primary Generalised Tonic-Clonic Seizures
Perampanel at a dose up to 8 mg/day has been shown to be effective in primary generalised tonic-clonic seizures.

The following table summarises the recommended posology for adults, adolescents and children from 7 years of age. More details are provided below the table.

<table>
<thead>
<tr>
<th></th>
<th>Adult/adolescent (12 years and older)</th>
<th>Children (7 – 11 years); weighing:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>≥ 30 kg</td>
<td>20 - &lt; 30 kg</td>
</tr>
<tr>
<td>Recommended</td>
<td></td>
<td></td>
</tr>
<tr>
<td>starting dose</td>
<td>2 mg/day (4 ml/day)</td>
<td>2 mg/day (4 ml/day)</td>
</tr>
<tr>
<td>Titration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(incremental</td>
<td>2 mg/day (4 ml/day) (no more</td>
<td>2 mg/day (4 ml/day) (no more</td>
</tr>
<tr>
<td>steps)</td>
<td>more frequently than weekly intervals)</td>
<td>more frequently than weekly</td>
</tr>
<tr>
<td>maintenance dose</td>
<td>Up to 8 mg/day (Up to 16 ml/day)</td>
<td>4 – 8 mg/day (8 – 16 ml/day)</td>
</tr>
<tr>
<td>Titration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(incremental</td>
<td>2 mg/day (4 ml/day) (no more</td>
<td>2 mg/day (4 ml/day) (no more</td>
</tr>
<tr>
<td>steps)</td>
<td>more frequently than weekly intervals)</td>
<td>more frequently than weekly</td>
</tr>
<tr>
<td>Recommended</td>
<td>12 mg/day (24 ml/day)</td>
<td>12 mg/day (24 ml/day)</td>
</tr>
<tr>
<td>maximum dose</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Adults, adolescents age ≥ 12 years
Treatment with Fycompa should be initiated at a dose of 2 mg/day (4 ml/day). The dose may be increased based on clinical response and tolerability by increments of 2 mg (4 ml/day) (either weekly or every 2 weeks, as per half-life considerations described below) to a maintenance dose of up to 8 mg/day (16 ml/day). Depending upon individual clinical response and tolerability at a dose of 8 mg/day (16 ml/day), the dose may be increased up to 12 mg/day (24 ml/day), which may be effective in some patients (see section 4.4). Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

Children (from 7 to 11 years) weighing ≥ 30 kg
Treatment with Fycompa should be initiated with a dose of 2 mg/day (4 ml/day). The dose may be increased based on clinical response and tolerability by increments of 2 mg (4 ml) (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day (8 ml/day) to 8 mg/day (16 ml/day). Depending upon individual clinical response and tolerability at a dose of 8 mg/day (16 ml/day), the dose may be increased by increments of 2 mg/day (4 ml/day) to
12 mg/day (24 ml/day). Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Children (from 7 to 11 years of age) weighing 20 kg and < 30 kg**
Treatment with Fycompa should be initiated with a dose of 1 mg/day (2 ml/day). The dose may be increased based on clinical response and tolerability by increments of 1 mg (2 ml) (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 4 mg/day (8 ml/day) to 6 mg/day (12 ml/day). Depending upon individual clinical response and tolerability at a dose of 6 mg/day, the dose may be increased by increments of 1 mg/day (2 ml/day) to 8 mg/day (16 ml/day). Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Children (from 7 to 11 years of age) weighing < 20 kg**
Treatment with Fycompa should be initiated with a dose of 1 mg/day (2 ml/day). The dose may be increased based on clinical response and tolerability by increments of 1 mg (2 ml) (either weekly or every 2 weeks as per half-life considerations described below) to a maintenance dose of 2 mg/day (4 ml/day) to 4 mg/day (8 ml/day). Depending upon individual clinical response and tolerability at a dose of 4 mg/day (8 ml/day), the dose may be increased by increments of 0.5 mg/day (1 ml/day) to 6 mg/day (12 ml/day). Patients who are taking concomitant medicinal products that do not shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 2-week intervals. Patients who are taking concomitant medicinal products that shorten the half-life of perampanel (see section 4.5) should be titrated no more frequently than at 1-week intervals.

**Withdrawal**
It is recommended that discontinuation be undertaken gradually to minimise the potential for rebound seizures. However, due to its long half-life and subsequent slow decline in plasma concentrations, perampanel can be discontinued abruptly if absolutely needed.

**Missed doses**
Single missed dose: As perampanel has a long half-life, the patient should wait and take their next dose as scheduled.

If more than 1 dose has been missed, for a continuous period of less than 5 half-lives (3 weeks for patients not taking perampanel metabolism-inducing anti-epileptic drugs (AED), 1 week for patients taking perampanel metabolism-inducing AEDs (see section 4.5)), consideration should be given to re-start treatment from the last dose level.

If a patient has discontinued perampanel for a continuous period of more than 5 half-lives, it is recommended that initial dosing recommendations given above should be followed.

**Elderly (65 years of age and above)**
Clinical studies of Fycompa in epilepsy did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients. Analysis of safety information in 905 perampanel-treated elderly patients (in double-blind studies conducted in non-epilepsy indications) revealed no age-related differences in the safety profile. In combination with the lack of age-related difference in perampanel exposure, the results indicate that dose-adjustment in the elderly is not required. Perampanel should be used with caution in elderly taking into account the drug interaction potential in polimedicated patients (see section 4.4).

**Renal impairment**
Dose adjustment is not required in patients with mild renal impairment. Use in patients with moderate or severe renal impairment or patients undergoing haemodialysis is not recommended.
**Hepatic impairment**
Dose increases in patients with mild and moderate hepatic impairment should be based on clinical response and tolerability. For patients with mild or moderate hepatic impairment, dosing can be initiated at 2 mg (4 ml). Patients should be up-titrated using 2 mg (4 ml) doses no faster than every 2 weeks based on tolerability and effectiveness. Perampanel dosing for patients with mild and moderate impairment should not exceed 8 mg. Use in patients with severe hepatic impairment is not recommended.

**Paediatric population**
The safety and efficacy of perampanel have not yet been established in children below 4 years of age in the POS indication or in children below 7 years of age in the PGTCS indication.

**Method of administration**

Fycompa is for oral use.

Preparation: The press-in-bottle adapter (PIBA) which is supplied in the product carton should be inserted firmly into the neck of the bottle before use and remain in place for the duration of the usage of the bottle. The oral syringe should be inserted into the PIBA and the dose withdrawn from the inverted bottle. The cap should be replaced after each use. The cap fits properly when the PIBA is in place.

4.3 Contraindications

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

4.4 Special warnings and precautions for use

**Suicidal ideation**

Suicidal ideation and behaviour have been reported in patients treated with anti-epileptic medicinal products in several indications. A meta-analysis of randomised placebo-controlled trials of anti-epileptic medicinal products has also shown a small increased risk of suicidal ideation and behaviour. The mechanism of this risk is not known and the available data do not exclude the possibility of an increased risk for perampanel. Therefore, patients (children, adolescents, and adults) should be monitored for signs of suicidal ideation and behaviours and appropriate treatment should be considered. Patients (and caregivers of patients) should be advised to seek medical advice should signs of suicidal ideation or behaviour emerge.

**Severe cutaneous adverse reactions (SCARs)**

Severe cutaneous adverse reactions (SCARs) including drug reaction with eosinophilia and systemic symptoms (DRESS) and Stevens - Johnson Syndrome (SJS), which can be life-threatening or fatal, have been reported (frequency unknown; see section 4.8) in association with perampanel treatment.

At the time of prescription patients should be advised of the signs and symptoms and monitored closely for skin reactions.

Symptoms of DRESS include typically, although not exclusively, fever, rash associated with other organ system involvement, lymphadenopathy, liver function tests abnormalities and eosinophilia. It is important to note that early manifestations of hypersensitivity, such as fever or lymphadenopathy, may be present even though rash is not evident.
Symptoms of SJS include typically although not exclusively, skin detachment (epidermal necrosis/blister) < 10%, erythematous skin (confluent), rapid progression, painful atypical target-like lesions and/or purpuric macules in wide dissemination or large erythema (confluent), bullous/erosive involvement of more than 2 mucous membranes.

If signs and symptoms suggestive of these reactions appear, perampanel should be withdrawn immediately and an alternative treatment considered (as appropriate).

If the patient has developed a serious reaction such as SJS or DRESS with the use of perampanel, treatment with perampanel must not be restarted in this patient at any time.

Absence and myoclonic seizures

Absence and myoclonic seizures are two common generalised seizure types that frequently occur in IGE patients. Other AEDs are known to induce or aggravate these seizure types. Patients with myoclonic seizures and absence seizures should be monitored while on Fycompa.

Nervous system disorders

Perampanel may cause dizziness and somnolence and therefore may influence the ability to drive or use machines (see section 4.7).

Hormonal contraceptives

At doses of 12 mg/day Fycompa may decrease the effectiveness of progestative-containing hormonal contraceptives; in this circumstance additional non-hormonal forms of contraception are recommended when using Fycompa (see sections 4.5 and 4.6).

Falls

There appears to be an increased risk of falls, particularly in the elderly; the underlying reason is unclear.

Aggression

Aggressive and hostile behaviour has been reported in patients receiving perampanel therapy. In perampanel-treated patients in clinical trials, aggression, anger and irritability were reported more frequently at higher doses. Most of the reported events were either mild or moderate and patients recovered either spontaneously or with dose adjustment. However, thoughts of harming others, physical assault or threatening behaviour were observed in some patients (<1% in perampanel clinical studies). Homicidal ideation has been reported in patients. Patients and caregivers should be counselled to alert a healthcare professional immediately if significant changes in mood or patterns of behaviour are noted. The dosage of perampanel should be reduced if such symptoms occur and should be discontinued immediately if symptoms are severe.

Abuse potential

Caution should be exercised in patients with a history of substance abuse and the patient should be monitored for symptoms of perampanel abuse.

Concomitant CYP 3A inducing anti-epileptic medicinal products

Response rates after addition of perampanel at fixed doses were less when patients received concomitant CYP3A enzyme-inducing anti-epileptic medicinal products (carbamazepine, phenytoin, oxcarbazepine) as compared to response rates in patient who received concomitant non-enzyme-inducing anti-epileptic medicinal products. Patients’ response should be monitored when
they are switching from concomitant non-inducer anti-epileptic medicinal products to enzyme
inducing medicinal products and vice versa. Depending upon individual clinical response and
tolerability, the dose may be increased or decreased 2 mg at a time (see section 4.2).

Other concomitant (non- anti-epileptic) cytochrome P450 inducing or inhibiting medicinal products

Patients should be closely monitored for tolerability and clinical response when adding or removing
cytochrome P450 inducers or inhibitors, since perampanel plasma levels can be decreased or
increased; the dose of perampanel may need to be adjusted accordingly.

Hepatotoxicity

Cases of hepatotoxicity (mainly hepatic enzyme increased) with perampanel in combination with other
antiepileptic drugs have been reported. If hepatic enzymes elevation is observed, monitoring of liver
function should be considered.

Excipients

Fructose intolerance
Fycompa contains sorbitol (E420); therefore, patients with rare hereditary problems of fructose
intolerance should not take this medicinal product.

Caution should be exercised when combining Fycompa oral suspension with other antiepileptic
medications containing sorbitol, since a combined intake of over 1 gram of sorbitol may affect
absorption of some drugs.

4.5 Interaction with other medicinal products and other forms of interaction

Fycompa is not considered a strong inducer or inhibitor of cytochrome P450 or UGT enzymes (see
section 5.2).

Hormonal contraceptives

In healthy women receiving 12 mg (but not 4 or 8 mg/day) for 21 days concomitantly with a combined
oral contraceptive, Fycompa was shown to decrease the levonorgestrel exposure (mean C_{\text{max}} and AUC
values were each decreased by 40%). Ethinylestradiol AUC was not affected by Fycompa 12 mg
whereas C_{\text{max}} was decreased by 18%. Therefore, the possibility of decreased efficacy of hormonal
progestative-containing contraceptives should be considered for women needing Fycompa 12 mg/day
and an additional reliable method (intra-uterine device (IUD), condom) is to be used (see section 4.4).

Interactions between Fycompa and other anti-epileptic medicinal products

Potential interactions between Fycompa and other anti-epileptic drugs (AEDs) were assessed in
clinical studies. A population PK analysis of three pooled Phase 3 studies in adolescent and adult
patients with partial-onset seizures evaluated the effect of Fycompa (up to 12 mg once daily) on the
PK of other AEDs. In another population PK analysis of pooled data from twenty Phase 1 studies in
healthy subjects, with Fycompa up to 36 mg, and one Phase 2 and six Phase 3 studies in paediatric,
adolescent and adult patients with partial-onset seizures or primary generalised tonic-clonic seizures,
with Fycompa up to 16 mg once daily, evaluated the effect of concomitant AEDs of perampanel
clearance. The effect of these interactions on average steady state concentration is summarised in the
following table.
AED coadministered | Influence of AED on Fycompa concentration | Influence of Fycompa on AED concentration
---|---|---
Carbamazepine | 3 fold decrease | <10% decrease
Clobazam | No influence | <10% decrease
Clonazepam | No influence | No influence
Lamotrigine | No influence | <10% decrease
Levetiracetam | No influence | No influence
Oxcarbazepine | 2 fold decrease | 35% increase ¹)
Phenobarbital | 20% decrease | No influence
Phenytoin | 2 fold decrease | No influence
Topiramate | 20% decrease | No influence
Valproic Acid | No influence | <10% decrease
Zonisamide | No influence | No influence

¹) Active metabolite monohydroxycarbazepine was not assessed.

Based on the results from the population pharmacokinetic analysis of patients with partial-onset seizures and patients with primary generalised tonic-clonic seizures the total clearance of Fycompa was increased when co-administered with carbamazepine (3-fold), and phenytoin or oxcarbazepine (2-fold), which are known inducers of enzymes of metabolism (see section 5.2). This effect should be taken into account and managed when adding or withdrawing these anti-epileptic drugs from a patient’s treatment regimen. Clonazepam, levetiracetam, phenobarbital, topiramate, zonisamide, clobazam, lamotrigine and valproic acid did not affect to a clinically relevant manner the clearance of Fycompa.

In a population pharmacokinetic analysis of patients with partial-onset seizures, Fycompa did not affect to a clinically relevant manner the clearance of clonazepam, levetiracetam, phenobarbital, phenytoin, topiramate, zonisamide, carbamazepine, clobazam, lamotrigine and valproic acid, at the highest perampanel dose evaluated (12 mg/day).

Perampanel was found to decrease the clearance of oxcarbazepine by 26%. Oxcarbazepine is rapidly metabolised by cytosolic reductase enzyme to the active metabolite, monohydroxycarbazepine. The effect of perampanel on monohydroxycarbazepine concentrations is not known.

Perampanel is dosed to clinical effect regardless of other AEDs.

Effect of perampanel on CYP3A substrates

In healthy subjects, Fycompa (6 mg once daily for 20 days) decreased midazolam AUC by 13%. A larger decrease in exposure of midazolam (or other sensitive CYP3A substrates) at higher Fycompa doses cannot be excluded.

Effect of cytochrome P450 inducers on perampanel pharmacokinetics

Strong inducers of cytochrome P450, such as rifampicin and hypericum, are expected to decrease perampanel concentrations and the potential for higher plasma concentrations of reactive metabolites in their presence has not been excluded. Felbamate has been shown to decrease the concentrations of some medicinal products and may also reduce perampanel concentrations.

Effect of cytochrome P450 inhibitors on perampanel pharmacokinetics

In healthy subjects, the CYP3A4 inhibitor ketoconazole (400 mg once daily for 10 days) increased perampanel AUC by 20% and prolonged perampanel half-life by 15% (67.8 h vs 58.4 h). Larger effects cannot be excluded when perampanel is combined with a CYP3A inhibitor with longer half-life than ketoconazole or when the inhibitor is given for a longer treatment duration.
Levodopa
In healthy subjects, Fycompa (4 mg once daily for 19 days) had no effect on $C_{\text{max}}$ or AUC of levodopa.

Alcohol
The effects of perampanel on tasks involving alertness and vigilance such as driving ability were additive or supra-additive to the effects of alcohol itself, as found in a pharmacodynamic interaction study in healthy subjects. Multiple dosing of perampanel 12 mg/day increased levels of anger, confusion, and depression as assessed using the Profile of Mood State 5-point rating scale (see section 5.1). These effects may also be seen when Fycompa is used in combination with other central nervous system (CNS) depressants.

Paediatric population
Interaction studies have only been performed in adults.
In a population pharmacokinetic analysis of adolescent patients age $\geq$ 12 years and children age 4 to 11 years, there were no notable differences compared to the adult population.

4.6 Fertility, pregnancy and lactation

Women of childbearing potential and contraception in males and females
Fycompa is not recommended in women of childbearing potential not using contraception unless clearly necessary. Fycompa may decrease the effectiveness of progestative-containing hormonal contraceptives. An additional non-hormonal form of contraception is, therefore recommended (see sections 4.4 and 4.5).

Pregnancy
There are limited amounts of data (less than 300 pregnancy outcomes) from the use of perampanel in pregnant women. Studies in animals did not indicate any teratogenic effects in rats or rabbits, but embryotoxicity was observed in rats at maternally toxic doses (see section 5.3). Fycompa is not recommended during pregnancy.

Breast-feeding
Studies in lactating rats have shown excretion of perampanel and/or its metabolites in milk (for details see section 5.3). It is not known whether perampanel is excreted in human milk. A risk to the newborns/infants cannot be excluded. A decision must be made whether to discontinue breast-feeding or to discontinue/abstain from Fycompa therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

Fertility
In the fertility study in rats, prolonged and irregular oestrous cycles were observed at high-dose (30 mg/kg) in females; however, these changes did not affect the fertility and early embryonic development. There were no effects on male fertility (see section 5.3). The effect of perampanel on human fertility has not been established.

4.7 Effects on ability to drive and use machines
Fycompa has moderate influence on the ability to drive and use machines. Perampanel may cause dizziness and somnolence and, therefore, may influence the ability to drive or use machines. Patients are advised not to drive a vehicle, operate complex machinery or engage in other potentially hazardous activities until it is known whether perampanel affects their ability to perform these tasks (see sections 4.4 and 4.5).
4.8 Undesirable effects

Summary of the safety profile

In all controlled and uncontrolled trials in patients with partial-onset seizures, 1,639 patients have received perampanel of whom 1,147 have been treated for 6 months and 703 for longer than 12 months.

In the controlled and uncontrolled study in patients with primary generalised tonic-clonic seizures, 114 patients have received perampanel of whom 68 have been treated for 6 months and 36 for longer than 12 months.

Adverse reactions leading to discontinuation:
In the controlled Phase 3 partial-onset seizures clinical trials, the rate of discontinuation as a result of an adverse reaction was 1.7% (3/172), 4.2% (18/431) and 13.7% (35/255) in patients randomised to receive perampanel at the recommended doses of 4 mg, 8 mg and 12 mg/day, respectively, and 1.4% (6/442) in patients randomised to receive placebo. The adverse reactions most commonly (≥ 1% in the total perampanel group and greater than placebo) leading to discontinuation were dizziness and somnolence.

In the controlled Phase 3 primary generalised tonic-clonic seizures clinical trial, the rate of discontinuation as a result of an adverse reaction was 4.9% (4/81) in patients randomised to receive perampanel 8 mg, and 1.2% (1/82) in patients randomised to receive placebo. The adverse reaction most commonly leading to discontinuation (≥ 2% in the perampanel group and greater than placebo) was dizziness.

Post-marketing use

Severe cutaneous adverse reactions (SCARs) including drug reaction with eosinophilia and systemic symptoms (DRESS) have been reported in association with perampanel treatment (see section 4.4).

Tabulated list of adverse reactions

In the table below, adverse reactions, which were identified based on review of the full Fycompa clinical studies safety database, are listed by System Organ Class and frequency. The following convention has been used for the classification of adverse reactions: very common (≥ 1/10), common (≥ 1/100 to < 1/10), uncommon (≥ 1/1,000 to < 1/100), not known (cannot be estimated from the available data).

Within each frequency category, adverse reactions are presented in order of decreasing seriousness.
<table>
<thead>
<tr>
<th>System Organ Class</th>
<th>Very common</th>
<th>Common</th>
<th>Uncommon</th>
<th>Not known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metabolism and nutrition disorders</td>
<td></td>
<td>Decreased appetite</td>
<td>Increased appetite</td>
<td></td>
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<tr>
<td>Psychiatric disorders</td>
<td></td>
<td>Aggression</td>
<td>Anxiety</td>
<td>Suicidal ideation</td>
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<td></td>
<td></td>
<td>Anger</td>
<td>Confusional state</td>
<td>Suicide attempt</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dizziness</td>
<td>Ataxia</td>
<td>Dysarthria</td>
<td></td>
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<tr>
<td></td>
<td>Somnolence</td>
<td>Balance disorder</td>
<td>Irritability</td>
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<tr>
<td>Eye disorders</td>
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<tr>
<td>Ear and labyrinth disorders</td>
<td></td>
<td>Vertigo</td>
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<td></td>
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<tr>
<td>Gastrointestinal disorders</td>
<td></td>
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<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td></td>
<td></td>
<td>Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)*</td>
<td>Stevens - Johnson Syndrome (SJS)*</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Back pain</td>
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<td></td>
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<tr>
<td>General disorders</td>
<td></td>
<td>Gait disturbance</td>
<td>Fatigue</td>
<td></td>
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<tr>
<td>Investigations</td>
<td></td>
<td>Weight increased</td>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>Injury, poisoning and procedural complications</td>
<td></td>
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</tbody>
</table>

* See section 4.4

Paediatric population

Based on the clinical trial database of 196 adolescents exposed to perampanel from double-blind studies for partial-onset seizures and primary generalised tonic-clonic seizures, the overall safety profile in adolescents was similar to that of adults, except for aggression, which was observed more frequently in adolescents than in adults.

Based on the clinical trial database of 180 paediatric patients exposed to perampanel from a multicentre, open label study, the overall safety profile in children was similar to that established for adolescents and adults, except for somnolence, irritability, aggression, and agitation, which were observed more frequently in the paediatric study compared to studies in adolescents and adults.

Available data in children did not suggest any clinically significant effects of perampanel on growth and development parameters including body weight, height, thyroid function, insulin-like growth factor-1 (IGF-1) level, cognition (as assessed by Aldenkamp-Baker neuropsychological assessment schedule [ABNAS]), behaviour (as assessed by Child Behavior Checklist [CBCL]), and dexterity (as assessed by Lafayette Grooved Pegboard Test [LGPT]). However, long term effects [greater than 1 year] on learning, intelligence, growth, endocrine function, and puberty in children remain unknown.
Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 Overdose

There have been post-marketing cases of intentional and accidental overdose in paediatric patients with doses of perampanel up to 36 mg and in adult patients with doses up to 300 mg. The adverse reactions observed included altered mental status, agitation, aggressive behaviour, coma and depressed level of consciousness. The patients recovered without sequelae.

There is no available specific antidote to the effects of perampanel.

General supportive care of the patient is indicated including monitoring of vital signs and observation of the clinical status of the patient. In view of its long half-life, the effects caused by perampanel could be prolonged. Because of low renal clearance special interventions such as forced diuresis, dialysis or haemoperfusion are unlikely to be of value.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: antiepileptics, other antiepileptics, ATC code: N03AX22

Mechanism of action

Perampanel is a first-in-class selective, non-competitive antagonist of the ionotropic α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) glutamate receptor on post-synaptic neurons. Glutamate is the primary excitatory neurotransmitter in the central nervous system and is implicated in a number of neurological disorders caused by neuronal overexcitation. Activation of AMPA receptors by glutamate is thought to be responsible for most fast excitatory synaptic transmission in the brain. In in vitro studies, perampanel did not compete with AMPA for binding to the AMPA receptor, but perampanel binding was displaced by noncompetitive AMPA receptor antagonists, indicating that perampanel is a noncompetitive AMPA receptor antagonist. In vitro, perampanel inhibited AMPA-induced (but not NMDA-induced) increase in intracellular calcium. In vivo, perampanel significantly prolonged seizure latency in an AMPA-induced seizure model.

The precise mechanism by which perampanel exerts its antiepileptic effects in humans remains to be fully elucidated.

Pharmacodynamic effects

A pharmacokinetic-pharmacodynamic (efficacy) analysis was performed based on the pooled data from the 3 efficacy trials for partial-onset seizures. In addition, a pharmacokinetic-pharmacodynamic (efficacy) analysis was performed in one efficacy trial for primary generalised tonic-clonic seizures. In both analyses, perampanel exposure is correlated with reduction in seizure frequency.

Psychomotor performance

Single and multiple doses of 8 mg and 12 mg impaired psychomotor performance in healthy volunteers in a dose-related manner. The effects of perampanel on complex tasks such as driving ability were additive or supra-additive to the impairment effects of alcohol. Psychomotor performance testing returned to baseline within 2 weeks of cessation of perampanel dosing.
Cognitive function
In a healthy volunteer study to assess the effects of perampanel on alertness, and memory using a standard battery of assessments, no effects of perampanel were found following single and multiple doses of perampanel up to 12 mg/day.

In a placebo-controlled study conducted in adolescent patients, no significant changes in cognition relative to placebo as measured by Cognitive Drug Research (CDR) System Global Cognition Score were observed for perampanel. In the open label extension, no significant changes were observed in global CDR system score after 52 weeks of perampanel treatment (see section 5.1 Paediatric population).

In an open-label uncontrolled study conducted in paediatric patients, no clinically important changes in cognition relative to baseline as measured by ABNAS were observed following adjunctive perampanel (see section 5.1 Paediatric population).

Alertness and mood
Levels of alertness (arousal) decreased in a dose-related manner in healthy subjects dosed with perampanel from 4 to 12 mg/day. Mood deteriorated following dosing of 12 mg/day only; the changes in mood were small and reflected a general lowering of alertness. Multiple dosing of perampanel 12 mg/day also enhanced the effects of alcohol on vigilance and alertness, and increased levels of anger, confusion and depression as assessed using the Profile of Mood State 5-point rating scale.

Cardiac electrophysiology
Perampanel did not prolong the QTc interval when administered in daily doses up to 12 mg/day, and did not have a dose-related or clinically important effect on QRS duration.

Clinical efficacy and safety

Partial-Onset Seizures
The efficacy of perampanel in partial-onset seizures was established in three adjunctive therapy 19 week, randomised, double-blind, placebo-controlled, multicentre trials in adult and adolescent patients. Patients had partial-onset seizures with or without secondary generalisation and were not adequately controlled with one to three concomitant AEDs. During a 6-week baseline period, patients were required to have more than five seizures with no seizure-free period exceeding 25 days. In these three trials, patients had a mean duration of epilepsy of approximately 21.06 years. Between 85.3% and 89.1% of patients were taking two to three concomitant AEDs with or without concurrent vagal nerve stimulation.

Two studies (studies 304 and 305) compared doses of perampanel 8 and 12 mg/day with placebo and the third study (study 306) compared doses of perampanel 2, 4 and 8 mg/day with placebo. In all three trials, following a 6-week Baseline Phase to establish baseline seizure frequency prior to randomisation, patients were randomised and titrated to the randomised dose. During the Titration Phase in all three trials, treatment was initiated at 2 mg/day and increased in weekly increments of 2 mg/day to the target dose. Patients experiencing intolerable adverse events could remain on the same dose or have their dose decreased to the previously tolerated dose. In all three trials, the Titration Phase was followed by a Maintenance Phase that lasted 13 weeks, during which patients were to remain on a stable dose of perampanel.

The pooled 50% responder rates were placebo 19%, 4 mg 29%, 8 mg 35% and 12 mg 35%. A statistically significant effect on the reduction in 28-day seizure frequency (Baseline to Treatment Phase) as compared to the placebo group was observed with perampanel treatment at doses of 4 mg/day (Study 306), 8 mg/day (Studies 304, 305 and 306), and 12 mg/day (Studies 304 and 305). The 50% responder rates in the 4 mg, 8 mg and 12 mg groups were respectively 23.0%, 31.5%, and 30.0% in combination with enzyme-inducing anti-epileptic medicinal products and were 33.3%, 46.5% and 50.0% when perampanel was given in combination with non-enzyme-inducing
anti-epileptic medicinal products. These studies show that once-daily administration of perampanel at doses of 4 mg to 12 mg was significantly more efficacious than placebo as adjunctive treatment in this population.

Data from placebo-controlled studies demonstrate that improvement in seizure control is observed with a once-daily perampanel dose of 4 mg and this benefit is enhanced as the dose is increased to 8 mg/day. No efficacy benefit was observed at the dose of 12 mg as compared to the dose of 8 mg in the overall population. Benefit at the dose of 12 mg was observed in some patients who tolerate the dose of 8 mg and when the clinical response to that dose was insufficient. A clinically meaningful reduction in seizure frequency relative to placebo was achieved as early as the second week of dosing when patients reached a daily dose of 4 mg.

1.7 to 5.8% of the patients on perampanel in the clinical studies became seizure free during the 3 month maintenance period compared with 0%-1.0% on placebo.

Open label extension study
Ninety-seven percent of the patients who completed the randomised trials in patients with partial-onset seizures were enrolled in the open label extension study (n = 1186). Patients from the randomised trial were converted to perampanel over 16 weeks followed by a long-term maintenance period (≥ 1 year). The mean average daily dose was 10.05 mg.

Primary Generalised Tonic-Clonic Seizures
Perampanel as adjunctive therapy in patients 12 years of age and older with idiopathic generalised epilepsy experiencing primary generalised tonic-clonic seizures was established in a multicentre, randomised, double-blind, placebo-controlled study (Study 332). Eligible patients on a stable dose of 1 to 3 AEDs experiencing at least 3 primary generalised tonic-clonic seizures during the 8-week baseline period were randomised to either perampanel or placebo. The population included 164 patients (perampanel N = 82, placebo N = 82). Patients were titrated over four weeks to a target dose of 8 mg per day or the highest tolerated dose and treated for an additional 13 weeks on the last dose level achieved at the end of the titration period. The total treatment period was 17 weeks. Study drug was given once per day.

The 50% primary generalised tonic-clonic seizures responder rate during the Maintenance Period was significantly higher in the perampanel group (58.0%) than in the placebo group (35.8%), P = 0.0059. The 50% responder rate was 22.2% in combination with enzyme-inducing anti-epileptic medicinal products and was 69.4% when perampanel was given in combination with non-enzyme-inducing anti-epileptic medicinal products. The number of perampanel patients taking enzyme-inducing anti-epileptic medicinal products was small (n = 9). The median percent change in primary generalised tonic-clonic seizure frequency per 28 days during the Titration and Maintenance Periods (combined) relative to Prerandomisation was greater with perampanel (-76.5%) than with placebo (-38.4%), P < 0.0001. During the 3 months maintenance period, 30.9% (25/81) of the patients on perampanel in the clinical studies became free of PGTC seizures compared with 12.3% (10/81) on placebo.

Other subtypes of idiopathic generalised seizure
The efficacy and safety of perampanel in patients with myoclonic seizures have not been established. The available data are insufficient to reach any conclusions. The efficacy of perampanel in the treatment of absence seizures has not been demonstrated. In Study 332, in patients with PGTC seizures who also had concomitant myoclonic seizures, freedom from seizures was achieved in 16.7% (4/24) on perampanel compared to 13.0% (3/23) in those on placebo. In patients with concomitant absence seizures, freedom from seizures was achieved in 22.2% (6/27) on perampanel compared to 12.1% (4/33) on placebo. Freedom from all seizures was achieved in 23.5% (19/81) of patients on perampanel compared to 4.9% (4/81) of patients on placebo.

Open label extension phase
Of the 140 patients who completed the Study 332, 114 patients (81.4%) had entered the Extension phase. Patients from the randomised trial were converted to perampanel over 6 weeks followed by a
long-term maintenance period (≥ 1 year). In the Extension Phase, 73.7% (84/114) of patients have a modal daily perampanel dose of greater than 4 to 8 mg/day and 16.7% (19/114) had a modal daily dose of greater than 8 to 12 mg/day. A decrease in PGTC seizure frequency of at least 50% was seen in 65.9% (29/44) of patients after 1 year of treatment during the Extension Phase (relative to their pre-perampanel baseline seizure frequency). These data were consistent with those for percent change in seizure frequency and showed that the PGTC 50% responder rate was generally stable across time from about week 26 through the end of year 2. Similar results were seen when all seizures and absence vs. myoclonic seizures were evaluated over time.

**Conversion to monotherapy**

In a retrospective study of clinical practice, 51 patients with epilepsy who received perampanel as adjunctive treatment converted to perampanel monotherapy. The majority of these patients had a history of partial onset seizures. Of these, 14 patients (27%) reverted to adjunctive therapy in the following months. Thirty four (34) patients were followed up for at least 6 months and, of these, 24 patients (71%) remained on perampanel monotherapy for at least 6 months. Ten (10) patients were followed up for at least 18 months and, of these, 3 patients (30%) remained on perampanel monotherapy for at least 18 months.

**Paediatric population**

The European Medicines Agency has deferred the obligation to submit the results of studies with Fycompa in one or more subsets of the paediatric population in treatment-resistant epilepsies (localisation-related and age-related epilepsy syndromes) (see section 4.2 for information on adolescent and paediatric use).

The three pivotal double-blind placebo-controlled phase 3 studies included 143 adolescents between the ages of 12 and 18. The results in these adolescents were similar to those seen in the adult population.

Study 332 included 22 adolescents between the ages of 12 and 18. The results in these adolescents were similar to those seen in the adult population.

A 19-week, randomised, double-blind, placebo-controlled study with an open-label extension phase (Study 235) was performed to assess the short-term effects on cognition of Fycompa (target dose range of 8 to 12 mg once daily) as adjunctive therapy in 133 (Fycompa n = 85, placebo n = 48) adolescent patients, aged 12 to less than 18 years old, with inadequately controlled partial-onset seizures. Cognitive function was assessed by the Cognitive Drug Research (CDR) System Global Cognition t-Score, which is a composite score derived from 5 domains testing Power of Attention, Continuity of Attention, Quality of Episodic Secondary Memory, Quality of Working Memory, and Speed of Memory. The mean change (SD) from baseline to end of double-blind treatment (19 weeks) in CDR System Global Cognition t-Score was 1.1 (7.14) in the placebo group and (minus) –1.0 (8.86) in the perampanel group, with the difference between the treatment groups in LS means (95% CI) = (minus) -2.2 (-5.2, 0.8). There was no statistically significant difference between the treatment groups (p = 0.145). CDR System Global Cognition t-Scores for placebo and perampanel were 41.2 (10.7) and 40.8 (13.0), respectively at the baseline. For patients with perampanel in the open label extension (n = 112), the mean change (SD) from baseline to end of open-label treatment (52 weeks) in CDR System Global Cognition t-Score was (minus) -1.0 (9.91). This was not statistically significant (p = 0.96). After up to 52 weeks of treatment with perampanel (n = 114), no effect on bone growth was observed. No effects on weight, height and sexual development were seen following up to 104 weeks of treatment (n = 114).

An open-label, uncontrolled study (Study 311) was performed to assess the exposure-efficacy relationship of perampanel as adjunctive therapy in 180 paediatric patients (aged 4 to 11 years old) with inadequately controlled partial-onset seizures or primary generalised tonic-clonic seizures. Patients were titrated over 11 weeks to a target dose of 8 mg/day or the maximum tolerated dose (not to exceed 12 mg/day) for patients not taking concomitant CYP3A-inducing antiepileptic drugs.
(carbamazepine, oxcarbazepine, eslicarbazepine and phenytoin) or 12 mg/day or the maximum tolerated dose (not to exceed 16 mg/day) for patients taking a concomitant CYP3A-inducing antiepileptic drug. Perampanel dose achieved at the end of titration was maintained for 12 weeks (for a total of 23 weeks of exposure) at the completion of the core study. Patients who entered into Extension Phase were treated for an additional 29 weeks for a total exposure duration of 52 weeks.

In patients with partial-onset seizures (n = 148 patients), the median change in seizure frequency per 28 days, the 50% or greater responder rate, and seizure-free rate following 23 weeks of perampanel treatment were -40.1%, 46.6% (n = 69/148), and 11.5% (n = 17/148), respectively, for total partial-onset seizures. The treatment effects on the median reduction in seizure frequency (Weeks 40-52: n = 108 patients, -69.4%), 50% responder rate (Weeks 40-52: 62.0%, n = 67/108), and seizure-free rate (Weeks 40-52: 13.0%, n = 14/108) were sustained following 52 weeks of perampanel treatment.

In a subset of partial-onset seizure patients with secondarily generalised seizures, the corresponding values were -58.7%, 64.8% (n = 35/54), and 18.5% (n = 10/54), respectively, for secondarily generalised tonic-clonic seizures. The treatment effects on the median reduction in seizure frequency (Weeks 40-52: n = 41 patients, -73.8%), 50% responder rate (Weeks 40-52: 80.5%, n = 33/41), and seizure-free rate (Weeks 40-52: 24.4%, n = 10/41) were sustained following 52 weeks of perampanel treatment.

In patients with primary generalised tonic-clonic seizures (n = 22 patients, with 19 patients aged 7-<12 years and 3 patients aged 4-<7 years), the median change in seizure frequency per 28 days, the 50% or greater responder rate, and seizure-free rate were -69.2%, 63.6% (n = 14/22), and 54.5% (n = 12/22), respectively. The treatment effects on the median reduction in seizure frequency (Weeks 40-52: n = 13 patients, -100.0%), 50% responder rate (Weeks 40-52: 61.5%, n = 8/13), and seizure-free rate (Weeks 40-52: 38.5%, n = 5/13) were sustained following 52 weeks of perampanel treatment. These results should be considered cautiously as the number of patients is very small.

Similar results were obtained in a subset of patients with primary generalised tonic-clonic seizures of idiopathic generalised epilepsy (IGE) (n = 19 patients, with 17 patients aged 7-<12 years and 2 patients aged 4-<7 years; the corresponding values were -56.5%, 63.2% (n = 12/19), and 52.6% (n = 10/19), respectively. The treatment effects on the median reduction in seizure frequency (Weeks 40-52: n = 11 patients, -100.0%), 50% responder rate (Weeks 40-52: 54.5%, n = 6/11), and seizure-free rate (Weeks 40-52: 36.4%, n = 4/11) were sustained following 52 weeks of perampanel treatment. These results should be considered cautiously as the number of patients is very small.

5.2 Pharmacokinetic properties

The pharmacokinetics of perampanel have been studied in healthy adult subjects (age range 18 to 79), adults, adolescents, and paediatric patients with partial-onset seizures and primary generalised tonic-clonic seizures, adults with Parkinson’s disease, adults with diabetic neuropathy, adults with multiple sclerosis, and patients with hepatic impairment.

Absorption

Perampanel is readily absorbed after oral administration with no evidence of marked first-pass metabolism.

Perampanel oral suspension is bioequivalent on a mg per mg basis to perampanel tablets under fasted conditions. When a single 12-mg dose of both formulations was administered with a high fat meal, perampanel oral suspension achieves equivalent AUC_{0-infty} and approximately 23 % lower C_{max} and 2 hours delay in time to peak exposure (t_{max}) compared to the tablet formulation. However, population pharmacokinetic analysis demonstrated that under simulated steady state exposure conditions, C_{max} and AUC, of perampanel oral suspension were bioequivalent to the tablet formulation under both fasted and fed conditions.
When coadministered with a high fat meal, $C_{\text{max}}$ and $AUC_{0-\text{inf}}$ of a single 12-mg dose of perampanel oral suspension were approximately 22% and 13%, respectively, lower compared to fasted conditions.

**Distribution**

Data from *in vitro* studies indicate that perampanel is approximately 95% bound to plasma proteins.

*In vitro* studies show that perampanel is not a substrate or significant inhibitor of organic anion transporting polypeptides (OATP) 1B1 and 1B3, organic anion transporters (OAT) 1, 2, 3, and 4, organic cation transporters (OCT) 1, 2, and 3, and the efflux transporters P-glycoprotein and Breast Cancer Resistance Protein (BCRP).

**Biotransformation**

Perampanel is extensively metabolised via primary oxidation and sequential glucuronidation. The metabolism of perampanel is mediated primarily by CYP3A based on clinical study results in healthy subjects administered radiolabelled perampanel and supported by *in vitro* studies using recombinant human CYPs and human liver microsomes.

Following administration of radiolabelled perampanel, only trace amounts of perampanel metabolites were observed in plasma.

**Elimination**

Following administration of a radiolabelled perampanel dose to either 8 healthy adults or elderly subjects, approximately 30% of recovered radioactivity was found in the urine and 70% in the faeces. In urine and faeces, recovered radioactivity was primarily composed of a mixture of oxidative and conjugated metabolites. In a population pharmacokinetic analysis of pooled data from 19 Phase 1 studies, the average $t_{1/2}$ of perampanel was 105 hours. When dosed in combination with the strong CYP3A inducer carbamazepine, the average $t_{1/2}$ was 25 hours.

**Linearity/non-linearity**

In a population PK analysis on pooled data from twenty Phase 1 studies in healthy subjects receiving perampanel between 0.2 and 36 mg either as single or multiple doses, one Phase 2 and five Phase 3 studies in patients with partial-onset seizure receiving perampanel between 2 and 16 mg/day and two Phase 3 studies in patients with primary generalised tonic-clonic seizures receiving perampanel between 2 and 14 mg/day a linear relationship was found between dose and perampanel plasma concentrations.

**Special populations**

**Hepatic impairment**

The pharmacokinetics of perampanel following a single 1 mg dose were evaluated in 12 patients with mild and moderate hepatic impairment (Child-Pugh A and B, respectively) compared with 12 healthy, demographically matched subjects. The mean apparent clearance of unbound perampanel in mildly impaired patients was 188 ml/min vs. 338 ml/min in matched controls, and in moderately impaired patients was 120 ml/min vs. 392 ml/min in matched controls. The $t_{1/2}$ was longer in mildly impaired (306 h vs. 125 h) and moderately impaired (295 h vs. 139 h) patients compared to matched healthy subjects.

**Renal impairment**

The pharmacokinetics of perampanel have not been formally evaluated in patients with renal impairment. Perampanel is eliminated almost exclusively by metabolism followed by rapid excretion of metabolites; only trace amounts of perampanel metabolites are observed in plasma. In a population
pharmacokinetic analysis of patients with partial-onset seizures having creatinine clearances ranging from 39 to 160 mL/min and receiving perampanel up to 12 mg/day in placebo-controlled clinical trials, perampanel clearance was not influenced by creatinine clearance. In a population pharmacokinetic analysis of patients with primary generalised tonic-clonic seizures receiving perampanel up to 8 mg/day in a placebo-controlled clinical study, perampanel clearance was not influenced by baseline creatinine clearance.

**Gender**

In a population pharmacokinetic analysis of patients with partial-onset seizures receiving perampanel up to 12 mg/day and patients with primary generalised tonic-clonic seizures receiving perampanel up to 8 mg/day in placebo-controlled clinical trials, perampanel clearance in females (0.54 l/h) was 18% lower than in males (0.66 l/h).

**Elderly (65 years of age and above)**

In a population pharmacokinetic analysis of patients with partial-onset seizures (age range 12 to 74 years) and primary generalised tonic-clonic seizures (age range 12 to 58 years), and receiving perampanel up to 8 or 12 mg/day in placebo-controlled clinical trials, no significant effect of age on perampanel clearance was found. A dose adjustment in the elderly is not considered to be necessary (see section 4.2).

**Paediatric population**

In a population pharmacokinetic analysis on pooled data from children aged 4 to 11 years, adolescent patients aged ≥12 years, and adults, perampanel clearance increased with an increase in body weight. Hence, dose adjustment in children aged 4 to 11 years with a body weight < 30 kg is necessary (see section 4.2).

**Drug interaction studies**

**In vitro assessment of drug interactions**

**Drug metabolising enzyme inhibition**

In human liver microsomes, perampanel (30 µmol/l) had a weak inhibitory effect on CYP2C8 and UGT1A9 among major hepatic CYPs and UGTs.

**Drug metabolising enzyme induction**

Compared with positive controls (including phenobarbital, rifampicin), perampanel was found to weakly induce CYP2B6 (30 µmol/l) and CYP3A4/5 (≥ 3 µmol/l) among major hepatic CYPs and UGTs in cultured human hepatocytes.

5.3 Preclinical safety data

Adverse reactions not observed in clinical studies, but seen in animals at exposure levels similar to clinical exposure levels and with possible relevance to clinical use were as follows:

In the fertility study in rats, prolonged and irregular oestrous cycles were observed at the maximum tolerated dose (30 mg/kg) in females; however, these changes did not affect fertility and early embryonic development. There were no effects on male fertility.

The excretion into breast milk was measured in rats at 10 days post-partum. Levels peaked at one hour and were 3.65 times the levels in plasma.

In a pre- and postnatal development toxicity study in rats, abnormal delivery and nursing conditions were observed at maternally toxic doses, and the number of stillbirths was increased in offspring. Behavioural and reproductive development of the offspring was not affected, but some parameters of physical development showed some delay, which is probably secondary to the pharmacology-based
CNS effects of perampanel. The placental transfer was relatively low; 0.09% or less of administered dose was detected in the foetus.

Nonclinical data reveal that perampanel was not genotoxic and had no carcinogenic potential. The administration of maximum tolerated doses to rats and monkeys resulted in pharmacologically-based CNS clinical signs and decreased terminal body weight. There were no changes directly attributable to perampanel in clinical pathology or histopathology.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Sorbitol (E420) liquid (crystallising)
Microcrystalline cellulose (E460)
Carmellose sodium (E466)
Poloxamer 188
Simethicone emulsion 30%, containing purified water, silicone oil, polysorbate 65, methylcellulose, silica gel, macrogol stearate, sorbic acid, benzoic acid and sulfuric acid
Citric acid, anhydrous (E330)
Sodium benzoate (E211)
Purified water

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

30 months

After first opening: 90 days.

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

Polyethylene terephthalate (PET) bottle with a child-resistant (CR) polypropylene (PP) closure; each bottle contains 340 ml of suspension in an outer cardboard carton.

Each carton contains one bottle, two 20 mL graduated oral dosing syringes and an LDPE press-in bottle adapter (PIBA). The oral dosing syringes are graduated in 0.5 ml increments.

6.6 Special precautions for disposal

No special requirements for disposal.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.
7. MARKETING AUTHORISATION HOLDER

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany
e-mail: medinfo_de@eisai.net

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/12/776/024

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 23 July 2012
Date of latest renewal: 6 April 2017

10. DATE OF REVISION OF THE TEXT

{MM/YYYY}
Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.
ANNEX II

A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT
A. MANUFACTURER RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer responsible for batch release

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

- Periodic Safety Update Reports

The requirements for submission of periodic safety update reports for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

- Risk Management Plan (RMP)

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the Marketing Authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:
- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.
ANNEX III

LABELLING AND PACKAGE LEAFLET
A. LABELLING
PARTICULARS TO APPEAR ON THE OUTER PACKAGING
Carton of 7, 28 and 98 tablets

1. NAME OF THE MEDICINAL PRODUCT
Fycompa 2 mg film-coated tablets
Perampanel

2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each tablet contains 2 mg perampanel.

3. LIST OF EXCIPIENTS
Contains lactose: see leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS
7 film-coated tablets
28 film-coated tablets
98 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION
Read the package leaflet before use.
Oral use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE
EXP

9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/12/776/001
EU/1/12/776/017
EU/1/12/776/018

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Fycompa 2 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC:
SN:
NN:
MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS
Blister Pack (PVC/Aluminium blister)

1. NAME OF THE MEDICINAL PRODUCT
Fycompa 2 mg tablets
Perampanel

2. NAME OF THE MARKETING AUTHORISATION HOLDER
Eisai

3. EXPIRY DATE
EXP

4. BATCH NUMBER
Lot

5. OTHER
PARTICULARS TO APPEAR ON THE OUTER PACKAGING
Cartons of 7, 28, 84 and 98 tablets

1. NAME OF THE MEDICINAL PRODUCT

Fycompa 4 mg film-coated tablets
Perampanel

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each tablet contains 4 mg perampanel.

3. LIST OF EXCIPIENTS

Contains lactose: see leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

7 film-coated tablets
28 film-coated tablets
84 film-coated tablets
98 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS
10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany

12. **MARKETING AUTHORISATION NUMBER(S)**

EU/1/12/776/002
EU/1/12/776/003
EU/1/12/776/004
EU/1/12/776/019

13. **BATCH NUMBER**

Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Fycompa 4 mg

17. **UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included.

18. **UNIQUE IDENTIFIER - HUMAN READABLE DATA**

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SN:
NN:
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<th>MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS</th>
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<td>Blister Pack (PVC/Aluminium blister)</td>
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<th>4. BATCH NUMBER</th>
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<th>5. OTHER</th>
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PARTICULARS TO APPEAR ON THE OUTER PACKAGING
Cartons of 7, 28, 84 and 98 tablets

1. NAME OF THE MEDICINAL PRODUCT
Fycompa 6 mg film-coated tablets
Perampanel

2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each tablet contains 6 mg perampanel.

3. LIST OF EXCIPIENTS
Contains lactose: see leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS
7 film-coated tablets
28 film-coated tablets
84 film-coated tablets
98 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION
Read the package leaflet before use.
Oral use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN
Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE
EXP

9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/12/776/005
EU/1/12/776/006
EU/1/12/776/007
EU/1/12/776/020

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Fycompa 6 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC:
SN:
NN:
### MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

**Blister Pack (PVC/Aluminium blister)**

1. **NAME OF THE MEDICINAL PRODUCT**
   
   Fycompa 6 mg tablets
   Perampanel

2. **NAME OF THE MARKETING AUTHORISATION HOLDER**
   
   Eisai

3. **EXPIRY DATE**
   
   EXP

4. **BATCH NUMBER**
   
   Lot

5. **OTHER**
PARTICULARS TO APPEAR ON THE OUTER PACKAGING
Cartons of 7, 28, 84 and 98 tablets

1. NAME OF THE MEDICINAL PRODUCT

Fycompa 8 mg film-coated tablets
Perampanel

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each tablet contains 8 mg perampanel.

3. LIST OF EXCIPIENTS

Contains lactose: see leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

7 film-coated tablets
28 film-coated tablets
84 film-coated tablets
98 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/12/776/008
EU/1/12/776/009
EU/1/12/776/010
EU/1/12/776/021

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Fycompa 8 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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1. **NAME OF THE MEDICINAL PRODUCT**

Fycompa 8 mg tablets
Perampanel

2. **NAME OF THE MARKETING AUTHORIZATION HOLDER**

Eisai

3. **EXPIRY DATE**

EXP

4. **BATCH NUMBER**

Lot

5. **OTHER**
1. **NAME OF THE MEDICINAL PRODUCT**

   Fycompa 10 mg film-coated tablets
   Perampanel

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

   Each tablet contains 10 mg perampanel.

3. **LIST OF EXCIPIENTS**

   Contains lactose: see leaflet for further information.

4. **PHARMACEUTICAL FORM AND CONTENTS**

   7 film-coated tablets
   28 film-coated tablets
   84 film-coated tablets
   98 film-coated tablets

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

   Read the package leaflet before use.
   Oral use

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

   Keep out of the sight and reach of children.

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**

8. **EXPIRY DATE**

   EXP

9. **SPECIAL STORAGE CONDITIONS**
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/12/776/011
EU/1/12/776/012
EU/1/12/776/013
EU/1/12/776/022

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Fycompa 10 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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<tr>
<td>Blister Pack (PVC/Aluminium blister)</td>
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1. **NAME OF THE MEDICINAL PRODUCT**
   
   Fycompa 10 mg tablets
   Perampanel

2. **NAME OF THE MARKETING AUTHORISATION HOLDER**
   
   Eisai

3. **EXPIRY DATE**
   
   EXP

4. **BATCH NUMBER**
   
   Lot

5. **OTHER**
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<th>PARTICULARS TO APPEAR ON THE OUTER PACKAGING</th>
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<td>Cartons of 7, 28, 84 and 98 tablets</td>
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1. **NAME OF THE MEDICINAL PRODUCT**

Fycompa 12 mg film-coated tablets
Perampanel

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

Each tablet contains 12 mg perampanel.

3. **LIST OF EXCIPIENTS**

Contains lactose: see leaflet for further information.

4. **PHARMACEUTICAL FORM AND CONTENTS**

7 film-coated tablets
28 film-coated tablets
84 film-coated tablets
98 film-coated tablets

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use.
Oral use

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children.

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**

8. **EXPIRY DATE**

EXP

9. **SPECIAL STORAGE CONDITIONS**
10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany

12. **MARKETING AUTHORISATION NUMBER(S)**

EU/1/12/776/014
EU/1/12/776/015
EU/1/12/776/016
EU/1/12/776/023

13. **BATCH NUMBER**

Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Fycompa 12 mg

17. **UNIQUE IDENTIFIER – 2D BARCODE**

2D barcode carrying the unique identifier included.

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<th>5. OTHER</th>
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PARTICULARS TO APPEAR ON THE OUTER PACKAGING AND THE IMMEDIATE PACKAGING

1. NAME OF THE MEDICINAL PRODUCT

Fycompa 0.5 mg/ml oral suspension
perampanel

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each ml contains 0.5 mg perampanel.
1 bottle (340 ml) contains 170 mg perampanel.

3. LIST OF EXCIPIENTS

Contains sorbitol: see leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Oral suspension 340 ml.
1 bottle
2 oral syringes
1 press-in-bottle adapter (PIBA)

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Shake for at least 5 seconds before use.
Oral use
Open date:

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY
8. EXPIRY DATE

EXP
After first opening: use within 90 days.

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/12/776/024

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Fycompa 0.5 mg/ml

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.
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B. PACKAGE LEAFLET
Package Leaflet: Information for the patient

Fycompa 2 mg, 4 mg, 6 mg, 8 mg, 10 mg, and 12 mg film-coated tablets
Perampanel

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet:
1. What Fycompa is and what it is used for
2. What you need to know before you take Fycompa
3. How to take Fycompa
4. Possible side effects
5. How to store Fycompa
6. Contents of the pack and other information

1. What Fycompa is and what it is used for

Fycompa contains a medicine called perampanel. It belongs to a group of medicines called anti epileptics. These medicines are used to treat epilepsy - where someone has repeated fits (seizures). It has been given to you by your doctor to reduce the number of fits that you have.

Fycompa is used in association with other antiepileptic drugs to treat certain forms of epilepsy:
In adults, adolescents (aged 12 years and older), and children (from 4 to 11 years)
- It is used to treat fits that affect one part of your brain (called a “partial seizure”).
- These partial seizures may or may not then be followed by a fit affecting all of your brain (called a “secondary generalisation”).
In adults and adolescents (aged 12 years and older), and children (from 7 to 11 years)
- It is also used to treat certain fits that affect all of your brain from the start (called “generalised seizures”) and cause convulsions or staring spells.

2. What you need to know before you take Fycompa

DO NOT TAKE Fycompa:
- If you have ever developed a severe skin rash or skin peeling, blistering and/or mouth sores after taking perampanel.
- If you are allergic to perampanel or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions
Talk to your doctor or pharmacist before taking Fycompa if you have liver problems or moderate or severe kidney problems.
You should not take Fycompa if you have serious liver problems or moderate or serious kidney problems.
Before taking this medicine you should tell your doctor if you have a history of alcoholism or drug dependence.
Cases of increased liver enzymes have been reported in some patients taking Fycompa in combination with other antiepileptic drugs.

- Fycompa may make you feel dizzy or sleepy, particularly at the beginning of treatment.
- Fycompa may make you more likely to fall over, particularly if you are an older person; this might be due to your illness.
- Fycompa may make you aggressive, angry or violent. It may also cause you to have unusual or extreme changes in behaviour or mood.

If any of these happens, talk to your doctor or pharmacist.

A small number of people being treated with anti-epileptics have had thoughts of harming or killing themselves. If at any time you have these thoughts, contact your doctor straight away.

Serious skin reactions including drug reaction with eosinophilia and systemic symptoms (DRESS) and Stevens - Johnson Syndrome (SJS) have been reported with the use of perampanel.
- DRESS typically, although not exclusively, appears as flu-like symptoms and a rash with a high body temperature, increased levels of liver enzymes seen in blood tests and an increase in a type of white blood cell (eosinophilia) and enlarged lymph nodes.
- Stevens - Johnson Syndrome (SJS) can appear initially as reddish target-like spots or circular patches often with central blisters on the trunk. Also, ulcers of mouth, throat, nose, genitals and eyes (red and swollen eyes) can occur. These serious skin rashes are often preceded by fever and/or flu-like symptoms. The rashes may progress to widespread peeling of the skin and life-threatening complications or be fatal.

If you experience any of the above after taking Fycompa (or you are not sure) talk to your doctor or pharmacist.

**Children**
Fycompa is not recommended for children aged under 4. The safety and effectiveness are not yet known in children under 4 years of age for partial seizures and under 7 years of age in generalised seizures.

**Other medicines and Fycompa**
Tell your doctor or pharmacist if you are taking or have recently taken or might take any other medicines. This includes medicines obtained without a prescription and herbal medicines. Taking Fycompa with certain other medicines may cause side effects or affect how they work. Do not start or stop other medicines without talking to your doctor or pharmacist.

- Other anti-epileptic medicines, such as carbamazepine, oxcarbazepine, and phenytoin that are used to treat fits may affect Fycompa. Tell your doctor if you are taking or have recently taken these medicines as your dose may need to be adjusted.
- Felbamate (a medicine used to treat epilepsy) may also affect Fycompa. Tell your doctor if you are taking or have recently taken this medicine as your dose may need to be adjusted.
- Midazolam (a medicine used to stop prolonged, acute (sudden) convulsive seizures, for sedation and sleep problem) may be affected by Fycompa. Tell your doctor if you are taking midazolam as your dose may need to be adjusted.
- Some other medicines such as rifampicin (a medicine used to treat bacterial infections), hypericum (St. John’s Wort) (a medicine used to treat mild anxiety) and ketoconazole (a medicine used to treat fungal infections) may affect Fycompa. Tell your doctor if you are taking or have recently taken these medicines as your dose may need to be adjusted.
- Hormonal contraceptives (including oral contraceptives, implants, injections, and patches) Tell your doctor if you are taking hormonal contraceptives. Fycompa may make certain hormonal contraceptives such as levonorgestrel less effective. You should use other forms of safe and effective contraception (such as a condom or coil) when taking Fycompa. You should continue doing this for one month after stopping treatment. Discuss with your doctor what may be appropriate contraception for you.
Fycompa with alcohol
Speak to your doctor before drinking alcohol. Be careful about consuming alcohol with epilepsy medicines including Fycompa.
- Drinking alcohol while taking Fycompa can make you less alert and affect your ability to drive or use tools or machines.
- Drinking alcohol while taking Fycompa can also make any feelings of anger, confusion or sadness worse.

Pregnancy and breast-feeding
If you are pregnant or breast-feeding, think you may be pregnant, or are planning to have a baby, ask your doctor for advice before taking this medicine. Do not stop treatment without first discussing it with your doctor.
- Fycompa is not recommended in pregnancy.
- You must use a reliable method of contraception to avoid becoming pregnant while you are being treated with Fycompa. You should continue doing this for one month after stopping treatment. Tell your doctor if you are taking hormonal contraceptives. Fycompa may make certain hormonal contraceptives such as levonorgestrel less effective. You should use other forms of safe and effective contraception (such as a condom or coil) when taking Fycompa. You should also do this for one month after stopping treatment. Discuss with your doctor what may be appropriate contraception for you.
It is not known whether the ingredients of Fycompa can pass into breast milk. The doctor will weigh up the benefit and risks to your baby of taking Fycompa while you are breast-feeding.

Driving and using machines
Do not drive or use machines until you know how Fycompa affects you.
You must talk to your doctor about the effect of your epilepsy on driving and using machines.
- Fycompa may make you feel dizzy or sleepy, particularly at the beginning of treatment. If this happens to you, do not drive or use any tools or machines.
- Drinking alcohol while taking Fycompa may make these effects worse.

Fycompa contains lactose
Fycompa contains lactose (a type of sugar). If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicine.

3. How to take Fycompa
Always take this medicine exactly as your doctor has told you. You should check with your doctor or pharmacist if you are not sure.

How much to take
Adults, adolescents (aged 12 years and older) in treating partial seizures and generalised seizures:
The usual starting dose is 2 mg once a day before you go to bed.
- Your doctor may increase this in 2 mg steps to a maintenance dose between 4 mg and 12 mg - depending on your response.
- If you have mild or moderate liver problems, your dose should not be more than 8 mg each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.
The following table summarises the recommended doses in treating partial seizures in children 4 to 11 years of age and generalised seizures in children 7 to 11 years of age. More details are provided below the table.

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<th>Children weighing:</th>
<th>More than 30 kg</th>
<th>20 kg to less than 30 kg</th>
<th>Less than 20 kg</th>
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<td>Recommended starting dose</td>
<td>2 mg/day</td>
<td>1 mg/day</td>
<td>1 mg/day</td>
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<tr>
<td>Recommended maintenance dose</td>
<td>4 – 8 mg/day</td>
<td>4 – 6 mg/day</td>
<td>2 – 4 mg/day</td>
</tr>
<tr>
<td>Recommended maximum dose</td>
<td>12 mg/day</td>
<td>8 mg/day</td>
<td>6 mg/day</td>
</tr>
</tbody>
</table>

Children (from 4 to 11 years of age) weighing 30 kg or more in treating partial seizures:

The usual starting dose is 2 mg once a day before you go to bed.
- Your doctor may increase this in 2 mg steps to a maintenance dose between 4 mg and 8 mg - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 12 mg/day.
- If you have mild or moderate liver problems, your dose should not be more than 4 mg each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

Children (from 4 to 11 years of age) weighing 20 kg and less than 30 kg in treating partial seizures:

The usual starting dose is 1 mg once a day before you go to bed.
- Your doctor may increase this in 1 mg steps to a maintenance dose between 4 mg and 6 mg - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 8 mg/day.
- If you have mild or moderate liver problems, your dose should not be more than 4 mg each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

Children (from 4 to 11 years of age) weighing less than 20 kg in treating partial seizures:

The usual starting dose is 1 mg once a day before you go to bed.
- Your doctor may increase this in 1 mg steps to a maintenance dose between 2 mg and 4 mg - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 6 mg/day.
- If you have mild or moderate liver problems, your dose should not be more than 4 mg each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

Children (from 7 to 11 years of age) weighing 30 kg or more in treating generalised seizures:

The usual starting dose is 2 mg once a day before you go to bed.
- Your doctor may increase this in 2 mg steps to a maintenance dose between 4 mg and 8 mg - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 12 mg/day.
- If you have mild or moderate liver problems, your dose should not be more than 4 mg each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.
Children (from 7 to 11 years of age) weighing 20 kg and less than 30 kg in treating generalised seizures:

The usual starting dose is 1 mg once a day before you go to bed.
- Your doctor may increase this in 1 mg steps to a maintenance dose between 4 mg and 6 mg - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 8 mg/day.
- If you have mild or moderate liver problems, your dose should not be more than 4 mg each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

Children (from 7 to 11 years of age) weighing less than 20 kg in treating generalised seizures:

The usual starting dose is 1 mg once a day before you go to bed.
- Your doctor may increase this in 1 mg steps to a maintenance dose between 2 mg and 4 mg - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 6 mg/day.
- If you have mild or moderate liver problems, your dose should not be more than 4 mg each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

How to take
Swallow the tablet whole with a glass of water. You can take Fycompa with or without food. Do not chew, crush or split the tablet. The tablets cannot be split accurately as there is no break line.

If you take more Fycompa than you should
If you have taken more Fycompa than you should contact your doctor straight away. You may experience confusion, agitation, aggressive behaviour and depressed level of consciousness.

If you forget to take Fycompa
- If you forget to take a tablet, wait until your next dose and then carry on as usual.
- Do not take a double dose to make up for a forgotten dose.
- If you have missed less than 7 days of treatment with Fycompa, continue taking your daily tablet as originally instructed by your doctor.
- If you have missed more than 7 days of treatment with Fycompa, talk to your doctor immediately.

If you stop taking Fycompa
Take Fycompa for as long as your doctor recommends. Do not stop unless your doctor advises you to. Your doctor may reduce your dose slowly to avoid your fits (seizures) coming back or getting worse. If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

A small number of people being treated with anti-epileptics have had thoughts of harming or killing themselves. If at any time you have these thoughts, contact your doctor straight away.

Very common (may affect more than 1 user in 10) are:
- feeling dizzy
- feeling sleepy (drowsiness or somnolence)
**Common** (may affect more than 1 user in 100) are:
- increased or decreased appetite, weight gain
- feeling aggressive, angry, irritable, anxious or confused
- difficulty with walking or other balance problems (ataxia, gait disturbance, balance disorder)
- slow speech (dysarthria)
- blurred vision or double vision (diplopia)
- spinning sensation (vertigo)
- feeling sick (nausea)
- back pain
- feeling very tired (fatigue)
- falling down

**Uncommon** (may affect more than 1 user in 1000) are:
- thoughts about harming yourself or ending your own life (suicidal thoughts), tried to end your own life (attempted suicide)

**Not known** (the frequency of this side effect cannot be estimated from the available data) are:
- Drug Reaction with Eosinophilia and Systemic Symptoms which is also known as DRESS or drug hypersensitivity syndrome: widespread rash, high body temperature, liver enzyme elevations, blood abnormalities (eosinophilia), enlarged lymph nodes and other body organs involvement.
- Stevens - Johnson syndrome, SJS. This serious skin rash can appear as reddish target-like macules or circular patches often with central blisters on the trunk, skin peeling, ulcers of mouth, throat, nose, genitals and eyes and can be preceded by fever and flu-like symptoms.

Stop using perampanel if you develop these symptoms and contact your doctor or seek medical attention immediately. See also section 2.

**Reporting of side effects**
If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

**5. How to store Fycompa**

Keep out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton and blister. The expiry date refers to the last day of the month.

This medicinal product does not require any special storage conditions.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help to protect the environment.

**6. Contents of the pack and other information**

**What Fycompa contains**
The active substance is perampanel. Each film-coated tablet contains 2 mg, 4 mg, 6 mg, 8 mg, 10 mg, or 12 mg perampanel.
The other ingredients are:
Tablet core (2 mg and 4 mg tablets):
Lactose monohydrate, low-substituted hydroxypropyl cellulose, povidone, magnesium stearate
(E470b)

Tablet core (6 mg, 8 mg, 10 mg and 12 mg tablets)
Lactose monohydrate, low-substituted hydroxypropyl cellulose, povidone, microcrystalline cellulose,
magnesium stearate (E470b)

Film coating (2 mg, 4 mg, 6 mg, 8 mg, 10 mg and 12 mg tablets)
Hyromellose 2910, talc, Macrogol 8000, titanium dioxide (E171), colourants*

*The colourants are:
2 mg tablet: Ferric Oxide, Yellow (E172), Ferric Oxide, Red (E172)
4 mg tablet: Ferric Oxide, Red (E172)
6 mg tablet: Ferric Oxide, Red (E172)
8 mg tablet: Ferric Oxide, Red (E172), Ferric Oxide, Black (E172)
10 mg tablet: Ferric Oxide, Yellow (E172), FD&C Blue #2 Indigo carmine aluminium lake (E132)
12 mg tablet: FD&C Blue #2 Indigo carmine aluminium lake (E132)

What Fycompa looks like and contents of the pack
All strengths of Fycompa are round, biconvex film-coated tablets
2 mg: orange, marked with E275 on one side and 2 on other side
4 mg: red, marked with E277 on one side and 4 on other side
6 mg: pink, marked with E294 on one side and 6 on other side
8 mg: purple, marked with E295 on one side and 8 on other side
10 mg: green, marked with E296 on one side and 10 on other side
12 mg: blue, marked with E297 on one side and 12 on other side

Fycompa is available in packs of:
2 mg tablet – pack of 7, 28 and 98
4 mg, 6 mg, 8 mg, 10 mg, 12 mg tablets – packs of 7, 28, 84 and 98

Not all pack sizes may be marketed

Marketing Authorisation Holder

Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany
e-mail: medinfo_de@eisai.net

Manufacturer
Eisai GmbH
Edmund-Rumpler-Straße 3
60549 Frankfurt am Main
Germany

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:
<table>
<thead>
<tr>
<th>Country</th>
<th>Company</th>
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<tr>
<td>België/Belgique/Belgien</td>
<td>Eisai SA/NV</td>
<td>Tél/Tel: +32 (0)800 158 58</td>
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<td><strong>Lietuva</strong></td>
<td>Eisai GmbH</td>
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<td></td>
<td></td>
<td>Tel: + 49 (0) 69 66 58 50</td>
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<td><strong>Nederland</strong></td>
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<td>Τηλ: + 30 210 668 3000</td>
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<td>Eisai GesmbH</td>
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<td></td>
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<td>Tel: + 43 (0) 1 535 1980-0</td>
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<tr>
<td>España</td>
<td>Eisai Farmacéutica, S.A.</td>
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<td>France</td>
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This leaflet was last revised in {MM/YYYY}

Detailed information on this medicine is available on the European Medicines Agency web site:
http://www.ema.europa.eu
Fycompa 0.5 mg/ml oral suspension
Perampanel

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is this leaflet:

1. What Fycompa is and what it is used for
2. What you need to know before you take Fycompa
3. How to take Fycompa
4. Possible side effects
5. How to store Fycompa
6. Contents of the pack and other information

1. What Fycompa is and what it is used for

Fycompa contains a medicine called perampanel. It belongs to a group of medicines called anti-epileptics. These medicines are used to treat epilepsy - where someone has repeated fits (seizures). It has been given to you by your doctor to reduce the number of fits that you have.

Fycompa is used in association with other antiepileptic drugs to treat certain forms of epilepsy:
In adults, adolescents (aged 12 years and older), and children (from 4 to 11 years)
- It is used to treat fits that affect one part of your brain (called a “partial seizure”).
- These partial seizures may or may not then be followed by a fit affecting all of your brain (called a “secondary generalisation”).

In adults and adolescents (aged 12 years and older), and children (from 7 to 11 years)
- It is also used to treat certain fits that affect all of your brain from the start (called “generalised seizures”) and cause convulsions or staring spells.

2. What you need to know before you take Fycompa

DO NOT TAKE Fycompa:
- If you have ever developed a severe skin rash or skin peeling, blistering and/or mouth sores after taking perampanel.
- If you are allergic to perampanel or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions
Talk to your doctor or pharmacist before taking Fycompa if you have liver problems or moderate or severe kidney problems.
You should not take Fycompa if you have serious liver problems or moderate or serious kidney problems.
Before taking this medicine you should tell your doctor if you have a history of alcoholism or drug dependence.
Cases of increased liver enzymes have been reported in some patients taking Fycompa in combination with other antiepileptic drugs.

- Fycompa may make you feel dizzy or sleepy, particularly at the beginning of treatment.
- Fycompa may make you more likely to fall over, particularly if you are an older person; this might be due to your illness.
- Fycompa may make you aggressive, angry or violent. It may also cause you to have unusual or extreme changes in behaviour or mood.

If any of these happens, talk to your doctor or pharmacist.

A small number of people being treated with anti-epileptics have had thoughts of harming or killing themselves. If at any time you have these thoughts, contact your doctor straight away.

Serious skin reactions including drug reaction with eosinophilia and systemic symptoms (DRESS) and Stevens - Johnson Syndrome (SJS) have been reported with the use of perampanel.

- DRESS typically, although not exclusively, appears as flu-like symptoms and a rash with a high body temperature, increased levels of liver enzymes seen in blood tests and an increase in a type of white blood cell (eosinophilia) and enlarged lymph nodes.
- Stevens - Johnson Syndrome (SJS) can appear initially as reddish target- like spots or circular patches often with central blisters on the trunk. Also, ulcers of mouth, throat, nose, genitals and eyes (red and swollen eyes) can occur. These serious skin rashes are often preceded by fever and/or flu-like symptoms. The rashes may progress to widespread peeling of the skin and life-threatening complications or be fatal.

If you experience any of the above after taking Fycompa (or you are not sure) talk to your doctor or pharmacist.

Children
Fycompa is not recommended for children aged under 4. The safety and effectiveness are not yet known in children under 4 years of age for partial seizures and under 7 years of age in generalised seizures.

Other medicines and Fycompa
Tell your doctor or pharmacist if you are taking or have recently taken or might take any other medicines. This includes medicines obtained without a prescription and herbal medicines. Taking Fycompa with certain other medicines may cause side effects or affect how they work. Do not start or stop other medicines without talking to your doctor or pharmacist.

- Other anti-epileptic medicines, such as carbamazepine, oxcarbazepine, and phenytoin that are used to treat fits may affect Fycompa. Tell your doctor if you are taking or have recently taken these medicines as your dose may need to be adjusted.
- Felbamate (a medicine used to treat epilepsy) may also affect Fycompa. Tell your doctor if you are taking or have recently taken this medicine as your dose may need to be adjusted.
- Midazolam (a medicine used to stop prolonged, acute (sudden) convulsive seizures, for sedation and sleep problem) may be affected by Fycompa. Tell your doctor if you are taking midazolam as your dose may need to be adjusted.
- Some other medicines such as rifampicin (a medicine used to treat bacterial infections), hypericum (St. John’s Wort) (a medicine used to treat mild anxiety) and ketoconazole (a medicine used to treat fungal infections) may affect Fycompa. Tell your doctor if you are taking or have recently taken these medicines as your dose may need to be adjusted.
- Hormonal-contraceptives (including oral contraceptives, implants, injections, and patches)
- Tell your doctor if you are taking hormonal contraceptives. Fycompa may make certain hormonal contraceptives such as levonorgestrel less effective. You should use other forms of safe and effective contraception (such as a condom or coil) when taking Fycompa. You should continue doing this for one month after stopping treatment. Discuss with your doctor what may be appropriate contraception for you.
**Fycompa with alcohol**

Speak to your doctor before drinking alcohol. Be careful about consuming alcohol with epilepsy medicines including Fycompa.
- Drinking alcohol while taking Fycompa can make you less alert and affect your ability to drive or use tools or machines.
- Drinking alcohol while taking Fycompa can also make any feelings of anger, confusion or sadness worse.

**Pregnancy and breast-feeding**

If you are pregnant or breast-feeding, think you may be pregnant, or are planning to have a baby, ask your doctor for advice before taking this medicine. Do not stop treatment without first discussing it with your doctor.
- Fycompa is not recommended in pregnancy.
- You must use a reliable method of contraception to avoid becoming pregnant while you are being treated with Fycompa. You should continue doing this for one month after stopping treatment. Tell your doctor if you are taking hormonal contraceptives. Fycompa may make certain hormonal contraceptives such as levonorgestrel less effective. You should use other forms of safe and effective contraception (such as a condom or coil) when taking Fycompa. You should also do this for one month after stopping treatment. Discuss with your doctor what may be appropriate contraception for you.

It is not known whether the ingredients of Fycompa can pass into breast milk. The doctor will weigh up the benefit and risks to your baby of taking Fycompa while you are breast-feeding.

**Driving and using machines**

Do not drive or use machines until you know how Fycompa affects you.
You must talk to your doctor about the effect of your epilepsy on driving and using machines.
- Fycompa may make you feel dizzy or sleepy, particularly at the beginning of treatment. If this happens to you, do not drive or use any tools or machines.
- Drinking alcohol while taking Fycompa may make these effects worse.

**Fycompa contains sorbitol**

If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking Fycompa.

Taking Fycompa with other anti-epileptic medicine, which contains sorbitol, may affect how much they work. Tell your doctor or pharmacist if you are taking any other anti-epileptic medicine(s) with sorbitol.

**3. How to use Fycompa**

Always take this medicine exactly as your doctor has told you. You should check with your doctor or pharmacist if you are not sure.

**How much to take**

**Adults, adolescents (aged 12 years and older) in treating partial seizures and generalised seizures:**

The usual starting dose is 2 mg (4 ml) once a day before you go to bed.
- Your doctor may increase this in 2 mg (4 ml) steps to a maintenance dose between 4 mg (8 ml) and 12 mg (24 ml) depending on your response.
- If you have mild or moderate liver problems, your dose should not be more than 8 mg each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.
The following table summarises the recommended doses in treating partial seizures in children 4 to 11 years of age and generalised seizures in children 7 to 11 years of age. More details are provided below the table.

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<th>More than 30 kg</th>
<th>20 kg to less than 30 kg</th>
<th>Less than 20 kg</th>
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<tr>
<td>Recommended starting dose</td>
<td>2 mg/day (4 ml/day)</td>
<td>1 mg/day (2 ml/day)</td>
<td>1 mg/day (2 ml/day)</td>
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<td>Recommended maintenance dose</td>
<td>4 – 8 mg/day (8 – 16 ml/day)</td>
<td>4 – 6 mg/day (8 – 12 ml/day)</td>
<td>2 – 4 mg/day (4 – 8 ml/day)</td>
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<tr>
<td>Recommended maximum dose</td>
<td>12 mg/day (24 ml/day)</td>
<td>8 mg/day (16 ml/day)</td>
<td>6 mg/day (12 ml/day)</td>
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Children (from 4 to 11 years of age) weighing 30 kg or more in treating partial seizures:

The usual starting dose is 2 mg (4 ml) once a day before you go to bed.

- Your doctor may increase this in 2 mg (4 ml) steps to a maintenance dose between 4 mg (8 ml) and 8 mg (16 ml) - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 12 mg/day (24 ml/day).
- If you have mild or moderate liver problems, your dose should not be more than 4 mg (8 ml) each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

Children (from 4 to 11 years of age) weighing 20 kg and less than 30 kg in treating partial seizures:

The usual starting dose is 1 mg (2 ml) once a day before you go to bed.

- Your doctor may increase this in 1 mg (2 ml) steps to a maintenance dose between 4 mg (8 ml) and 6 mg (12 ml) - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 8 mg/day (16 ml/day).
- If you have mild or moderate liver problems, your dose should not be more than 4 mg (8 ml) each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

Children (from 4 to 11 years of age) weighing less than 20 kg in treating partial seizures:

The usual starting dose is 1 mg (2 ml) once a day before you go to bed.

- Your doctor may increase this in 1 mg (2 ml) steps to a maintenance dose between 2 mg (4 ml) and 4 mg (8 ml) - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 6 mg/day (12 ml/day).
- If you have mild or moderate liver problems, your dose should not be more than 4 mg (8 ml) each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

Children (from 7 to 11 years of age) weighing 30 kg or more in treating generalised seizures:

The usual starting dose is 2 mg (4 ml) once a day before you go to bed.

- Your doctor may increase this in 2 mg (4 ml) steps to a maintenance dose between 4 mg (8 ml) and 8 mg (16 ml) - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 12 mg/day (24 ml/day).
- If you have mild or moderate liver problems, your dose should not be more than 4 mg (8 ml) each day and your dose increases should be at least 2 weeks apart.
Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

**Children (from 7 to 11 years of age) weighing 20 kg and less than 30 kg in treating generalised seizures:**

The usual starting dose is 1 mg (2 ml) once a day before you go to bed.
- Your doctor may increase this in 1 mg (2 ml) steps to a maintenance dose between 4 mg (8 ml) and 6 mg (12 ml) - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 8 mg/day (16 ml/day).
- If you have mild or moderate liver problems, your dose should not be more than 4 mg (8 ml) each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

**Children (from 7 to 11 years of age) weighing less than 20 kg in treating generalised seizures:**

The usual starting dose is 1 mg (2 ml) once a day before you go to bed.
- Your doctor may increase this in 1 mg steps to a maintenance dose between 2 mg (4 ml) and 4 mg (8 ml) - depending on your response. Depending upon individual clinical response and tolerability, the dose may be increased to a maximum dose of 6 mg/day (12 ml/day).
- If you have mild or moderate liver problems, your dose should not be more than 4 mg (8 ml) each day and your dose increases should be at least 2 weeks apart.
- Don’t take more Fycompa than your doctor has recommended. It may take a few weeks to find the right dose of Fycompa for you.

**How to take**

Fycompa is for oral use. You can take Fycompa with or without food and should always take it the same way. For example, if you decide to take Fycompa with food, always take it that way.

For dosing please use the oral syringe and adaptor provided.

Instructions on how to use the oral syringe and adaptor are provided below:
1. Shake for at least 5 seconds before use.
2. Push down (1) and turn cap (2) to open bottle.
3. Insert adaptor into the neck of the bottle until a tight seal is made.
5. Insert the oral syringe into the opening of the adaptor as far as possible.
6. Turn upside down and withdraw the prescribed amount of Fycompa from the bottle.
7. Turn upright and remove the oral syringe.
8. Leave the adaptor in place and replace cap on bottle.
9. After dose administration, separate barrel and plunger, and fully immerse both components in HOT soapy water.
10. Immerse the barrel and plunger in water to remove any residual detergent, shake off excess water and leave components to air dry. Do not wipe dry the dispensers.
11. Do not clean and reuse the syringe after 40 uses, or if the markings on the syringe wash off.

**If you take more Fycompa than you should**
If you have taken more Fycompa than you should contact your doctor straight away. You may experience confusion, agitation, aggressive behaviour and depressed level of consciousness.

**If you forget to take Fycompa**
- If you forget to take Fycompa, wait until your next dose and then carry on as usual.
- Do not take a double dose to make up for a forgotten dose.
- If you have missed less than 7 days of treatment with Fycompa, continue taking your daily dose as originally instructed by your doctor.
- If you have missed more than 7 days of treatment with Fycompa, talk to your doctor immediately.

**If you stop taking Fycompa**
Take Fycompa for as long as your doctor recommends. Do not stop unless your doctor advises you to. Your doctor may reduce your dose slowly to avoid your fits (seizures) coming back or getting worse. If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

A small number of people being treated with anti-epileptics have had thoughts of harming or killing themselves. If at any time you have these thoughts, contact your doctor straight away. **Very common** (may affect more than 1 user in 10) are:
- feeling dizzy
- feeling sleepy (drowsiness or somnolence)

**Common** (may affect more than 1 user in 100) are:
- increased or decreased appetite, weight gain
- feeling aggressive, angry, irritable, anxious or confused
- difficulty with walking or other balance problems (ataxia, gait disturbance, balance disorder)
- slow speech (dysarthria)
- blurred vision or double vision (diplopia)
- spinning sensation (vertigo)
- feeling sick (nausea)
- back pain
- feeling very tired (fatigue)
- falling down.
**Uncommon** (may affect more than 1 user in 1000) are:
- thoughts about harming yourself or ending your own life (suicidal thoughts), tried to end your own life (attempted suicide)

**Not known** (the frequency of this side effect cannot be estimated from the available data) are:
- Drug Reaction with Eosinophilia and Systemic Symptoms which is also known as DRESS or drug hypersensitivity syndrome: widespread rash, high body temperature, liver enzyme elevations, blood abnormalities (eosinophilia), enlarged lymph nodes and other body organs involvement.
- Stevens - Johnson syndrome, SJS. This serious skin rash can appear as reddish target-like macules or circular patches often with central blisters on the trunk, skin peeling, ulcers of mouth, throat, nose, genitals and eyes and can be preceded by fever and flu-like symptoms.

Stop using perampanel if you develop these symptoms and contact your doctor or seek medical attention immediately. See also section 2.

**Reporting of side effects**
If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store Fycompa**

Keep out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the bottle label and carton. The expiry date refers to the last day of the month.

This medicinal product does not require any special storage conditions.

If you have any suspension left in the bottle more than 90 days after it was first opened, you should not use it.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help to protect the environment.

6. **Contents of the pack and other information**

**What Fycompa contains**
- The active substance is perampanel. Each millilitre contains 0.5 mg of perampanel.
- The other ingredients are sorbitol (E420) liquid (crystallising), microcrystalline cellulose (E460), carmellose sodium (E466), poloxamer 188, simethicone emulsion 30% (containing purified water, silicone oil, polysorbate 65, methylcellulose, silica gel, macrogol stearate, sorbic acid, benzoic acid and sulfuric acid), citric acid, anhydrous (E330), sodium benzoate (E211) and purified water.

**What Fycompa looks like and contents of the pack**
Fycompa 0.5 mg/ml oral suspension is a white to off-white suspension. It comes in a bottle of 340 ml with 2 graduated oral syringes and an LDPE press-in bottle adapter (PIBA).

**Marketing Authorisation Holder**
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e-mail: medinfo_de@eisai.net

**Manufacturer**
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60549 Frankfurt am Main
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For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

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This leaflet was last revised in {MM/YYYY}

Detailed information on this medicine is available on the European Medicines Agency web site:
http://www.ema.europa.eu