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# FRONT

## Tivicoy

### 5 mg dispersible tablets

**NAME OF THE MEDICAL PRODUCT**  
Tivicoy 5 mg dispersible tablets  
**QUALITATIVE AND QUANTITATIVE COMPOSITION**  
Each dispersible tablet contains dolutegravir sodium equivalent to 5 mg dolutegravir.  
For the full list of excipients, see section 6.1.  
**PHARMACEUTICAL FORM**  
Dispersible tablet.  
White, round, biconvex tablets approximately 6 mm in diameter debossed with 'SV H75' on one side and '5' on the other side.

**CLINICAL PARTICULARS**  
**Therapeutic Indications**  
Tivicoy is indicated in combination with other anti-retroviral medicinal products for the treatment of Human Immunodeficiency Virus (HIV) infected adults, adolescents and children of at least 4 weeks of age or older and weighing at least 3 kg.  
**Posology and method of administration**  
Tivicoy should be prescribed by physicians experienced in the management of HIV infection.  
**Posology**  
**Adults**  
Patients infected with HIV-1 without documented or clinically suspected resistance to the integrase class.  
The recommended dose of dolutegravir is 30 mg (six 5 mg dispersible tablets) orally once daily.  
Dolutegravir should be administered twice daily in this population when co-administered with some medicines (e.g. efavirenz, nevirapine, tipranavir/ritonavir, or rifampicin). Please refer to section 4.5.  
Patients infected with HIV-1 with resistance to the integrase class (documented or clinically suspected)  
The recommended dose of dolutegravir is 30 mg (six 5 mg dispersible tablets) twice daily.  
In the presence of documented resistance that includes Q148 + 22 secondary mutations from G140A/C/S, E138A/K/T, L74I (see section 5.1). To what extent dolutegravir provides added efficacy in the presence of such integrase class resistance is uncertain (see section 5.2).

**Paediatric population**  
Tivicoy is indicated in combination with other anti-retroviral medicinal products for the treatment of Human Immunodeficiency Virus (HIV) infected adults, adolescents and children of at least 4 weeks of age or older and weighing at least 3 kg.  
**Posology and method of administration**  
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**Posology**  
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The decision to use dolutegravir pattern for each patient should be informed by the integrase resistance pattern (see section 5.1).  
Adolescents, children and infants aged 4 weeks and above and weighing at least 3 kg  
Patients infected with HIV-1 without resistance to the integrase class  
The recommended dose of dolutegravir is determined according to weight and age (see Table 1 and section 5.2).

Body weight (kg)	Dose
3 to less than 6	5 mg once daily
6 to less than 10	10 mg once daily
10 to less than 14	10 mg twice daily
14 to less than 20	15 mg twice daily
20 or greater	30 mg once daily

Alternatively, if preferred the dose may be divided equally into 2 doses, with one dose taken in the morning and one dose taken in the evening (see Table 2 and section 5.2).

Body weight (kg)	Dose
3 to less than 6	---
6 to less than 10	5 mg twice daily
10 to less than 14	10 mg twice daily
14 to less than 20	15 mg twice daily
20 or greater	30 mg twice daily

**Table 2 Alternative paediatric dose recommendations for dispersible tablets**  
Dolutegravir increased metformin clearance. The dose adjustment of metformin should be considered when starting and stopping coadministration of dolutegravir with metformin, to maintain glycaemic control (see section 4.5). Metformin is eliminated renally and, therefore, it is of importance to monitor renal function when co-treated with dolutegravir. This combination may increase the risk for lactic acidosis with medicinal products with moderate renal impairment (stage 3 creatinine clearance [CrCl] 45–59 mL/min) and a cautious approach is recommended. Reduction of the metformin dose should be highly considered. Osteonecrosis  
Although the aetiology is considered to be multifactorial (including corticosteroid use, bisphosphonates, alcohol consumption, severe immunosuppression, higher body mass index), cases of osteonecrosis have been reported in patients with advanced HIV-disease and/or long-term exposure to CART. Patients should be advised to seek medical advice if they experience joint aches and pain, joint stiffness or difficulty in movement.  
Weight and metabolic parameters  
An increase in weight and in levels of blood lipids and glucose may occur during antiretroviral therapy. Such changes may be linked to increased disease control and lifestyle. For lipids, there is some case evidence for a treatment effect, while for weight gain there is no strong evidence relating this to any particular treatment. For monitoring of blood lipids and glucose reference is made to established clinical guidelines. Lipid disorders should be managed as clinically appropriate.  
Lamivudine and dolutegravir  
The two drug regimen of dolutegravir 50 mg film-coated tablets once daily and lamivudine 300 mg once daily was explored in two large randomized and blinded studies, GEMINI 1 and GEMINI 2 (see section 5.1). This regimen is only suitable for the treatment of HIV-1 infection where there is no known or suspected resistance to the integrase inhibitor class, or to lamivudine.  
Elderly  
There are limited data available on the use of dolutegravir in patients aged 65 years and over. There is no evidence that elderly patients require a different dose than younger adult patients (see section 5.2).  
Renal impairment  
No dose adjustment is required in patients with mild, moderate or severe GFR <30 mL/min, not on dialysis renal impairment. No data are available in subjects receiving dialysis although differences in pharmacokinetics are not expected in this population (see section 5.2).  
Hepatic impairment  
No dose adjustment is required in patients with mild or moderate hepatic impairment (Child-Pugh grade A or B). No data are available in patients with severe hepatic impairment (Child-Pugh grade C); therefore dolutegravir should be used with caution in these patients (see section 5.2).  
Paediatric population  
The safety and efficacy of dolutegravir in children aged less than 4 weeks or weighing less than 3 kg have not yet been established. There are insufficient data to recommend a dose for dolutegravir in integrase inhibitor resistant adolescents, children and infants.  
Film-coated tablets  
Tivicoy is available as dispersible tablets for patients aged 4 weeks and above and weighing at least 3 kg, or for patients in whom film-coated tablets are not appropriate. Tivicoy is available as film-coated tablets for patients aged 6 years and above and weighing at least 14 kg. Patients can change between dispersible tablets and film-coated tablets. However, the bioavailability of dispersible tablets and film-coated tablets is not comparable, therefore they are not interchangeable on a milligram per milligram basis (see section 5.2). For example, the recommended adult dose for dispersible tablets is 30 mg versus 50 mg for film-coated tablets. Patients changing between dispersible and film-coated tablets should follow the dosage recommendations that are specific for the formulation. Concomitant use  
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**Important**  
GSK LOC is responsible to approve the change documentation, artwork brief and final artwork, ensuring that it is accurate, consistent and complete.  
GSK CDC is responsible for site technical requirements and pre-press suitability.  
GSK Market is responsible to advise CDC when changes required subject the following:  
Formulation  
Tablet embossing  
Storage conditions  
Shelf Life

**NOTE TO MARKET**  
Local approvers must ensure that trade mark and copyright statements included in the brief comply with guidance provided by Legal: Global Trade Marks.

Medicinal products with narrow therapeutic windows that are substrates of organic cation transporter 2 (OCT2), including but not limited to fampidine (also known as dalfampidine; see section 4.5).  
**Special warnings and precautions for use**  
While effective viral suppression with antiretroviral therapy has been proven to substantially reduce the risk of sexual transmission, a residual risk cannot be excluded. Precautions to prevent transmission should be taken in accordance with national guidelines.  
Integrase class resistance of particular concern  
The decision to use dolutegravir in the presence of integrase class resistance should take into account that the activity of dolutegravir is considerably compromised for viral strains harbouring Q148+22 secondary mutations from G140A/C/S, E138A/K/T, L74I (see section 5.1). To what extent dolutegravir provides added efficacy in the presence of such integrase class resistance is uncertain (see section 5.2).

**Hypersensitivity reactions**  
Hypersensitivity reactions have been reported with dolutegravir, and were characterized by rash, constitutional findings, and sometimes, organ dysfunction, including severe liver reactions. Dolutegravir and other suspect medicinal products should be discontinued immediately if signs or symptoms of hypersensitivity reactions develop (including, but not limited to, severe rash or rash accompanied by raised liver enzymes, fever, general malaise, fatigue, muscle or joint aches, blisters, oral lesions, conjunctivitis, facial oedema, eosinophilia, angioedema). Clinical status including liver aminotransferases and bilirubin should be monitored. Delay in stopping treatment with dolutegravir or other suspect active ingredient after the onset of hypersensitivity may result in a life threatening allergic reaction.  
Immune Reconstitution Syndrome  
In HIV-infected patients with severe immune deficiency at the time of initiation of combination antiretroviral therapy (CART), an inflammatory reaction to asymptomatic or residual opportunistic pathogens may arise and cause serious clinical conditions, or aggravation of symptoms. Typically, such reactions have been observed within the first few weeks or months of initiation of CART. Relevant examples are cytomegalovirus reinitiation, generalised and/or focal mycobacterial infections, and *Pneumocystis jirovecii* pneumonia. Any inflammatory symptoms should be evaluated and treated according when necessary. Autoimmune disorders (such as Graves' disease and autoimmune hepatitis) have also been reported to occur in the setting of immune reconstitution, however, the reported time to onset is more variable and these events can occur many months after initiation of treatment.  
Laboratory chemistry elevations consistent with immune reconstitution syndrome were observed in some hepatitis B and/or C co-infected patients at the start of dolutegravir therapy. Monitoring of liver biochemistries is recommended in patients with chronic hepatitis B infection. Particular diligence should be applied in initiating or maintaining effective hepatitis B therapy (referring to treatment guidelines) when starting dolutegravir-based therapy in hepatitis B co-infected patients (see section 4.8).  
Opportunistic infections  
Patients should be advised that dolutegravir or any other antiretroviral therapy does not cure HIV infection and that they may still develop opportunistic infections and other complications of HIV infection. Therefore, patients should remain under close clinical observation by physicians experienced in the treatment of these associated HIV diseases. Drug interactions  
Patients that decrease dolutegravir exposure should be avoided in the presence of integrase class resistance. This includes co-administration with medicinal products that reduce dolutegravir exposure (e.g. magnesium/aluminium-containing antacid, iron and calcium supplements, multivitamins and inducing agents, efavirenz (without boosted protease inhibitors), tipranavir/ritonavir, rifampicin, St. John's wort and certain anti-epileptic medicinal products) (see section 4.5).  
Dolutegravir increased metformin clearance. The dose adjustment of metformin should be considered when starting and stopping coadministration of dolutegravir with metformin, to maintain glycaemic control (see section 4.5). Metformin is eliminated renally and, therefore, it is of importance to monitor renal function when co-treated with dolutegravir. This combination may increase the risk for lactic acidosis with medicinal products with moderate renal impairment (stage 3 creatinine clearance [CrCl] 45–59 mL/min) and a cautious approach is recommended. Reduction of the metformin dose should be highly considered. Osteonecrosis  
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Weight and metabolic parameters  
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Paediatric population  
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**Table 1 Paediatric dose recommendations for dispersible tablets**  
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Body weight (kg)	Dose
3 to less than 6	5 mg once daily
6 to less than 10	10 mg once daily
10 to less than 14	10 mg twice daily
14 to less than 20	15 mg twice daily
20 or greater	30 mg once daily

**Table 2 Alternative paediatric dose recommendations for dispersible tablets**  
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Dolutegravir increased metformin clearance. The dose adjustment of metformin should be considered when starting and stopping coadministration of dolutegravir with metformin, to maintain glycaemic control (see section 4.5). Metformin is eliminated renally and, therefore, it is of importance to monitor renal function when co-treated with dolutegravir. This combination may increase the risk for lactic acidosis with medicinal products with moderate renal impairment (stage 3 creatinine clearance [CrCl] 45–59 mL/min) and a cautious approach is recommended. Reduction of the metformin dose should be highly considered. Osteonecrosis  
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Weight and metabolic parameters  
An increase in weight and in levels of blood lipids and glucose may occur during antiretroviral therapy. Such changes may be linked to increased disease control and lifestyle. For lipids, there is some case evidence for a treatment effect, while for weight gain there is no strong evidence relating this to any particular treatment. For monitoring of blood lipids and glucose reference is made to established clinical guidelines. Lipid disorders should be managed as clinically appropriate.  
Lamivudine and dolutegravir  
The two drug regimen of dolutegravir 50 mg film-coated tablets once daily and lamivudine 300 mg once daily was explored in two large randomized and blinded studies, GEMINI 1 and GEMINI 2 (see section 5.1). This regimen is only suitable for the treatment of HIV-1 infection where there is no known or suspected resistance to the integrase inhibitor class, or to lamivudine.  
Elderly  
There are limited data available on the use of dolutegravir in patients aged 65 years and over. There is no evidence that elderly patients require a different dose than younger adult patients (see section 5.2).  
Renal impairment  
No dose adjustment is required in patients with mild, moderate or severe GFR <30 mL/min, not on dialysis renal impairment. No data are available in subjects receiving dialysis although differences in pharmacokinetics are not expected in this population (see section 5.2).  
Hepatic impairment  
No dose adjustment is required in patients with mild or moderate hepatic impairment (Child-Pugh grade A or B). No data are available in patients with severe hepatic impairment (Child-Pugh grade C); therefore dolutegravir should be used with caution in these patients (see section 5.2).  
Paediatric population  
The safety and efficacy of dolutegravir in children aged less than 4 weeks or weighing less than 3 kg have not yet been established. There are insufficient data to recommend a dose for dolutegravir in integrase inhibitor resistant adolescents, children and infants.  
Film-coated tablets  
Tivicoy is available as dispersible tablets for patients aged 4 weeks and above and weighing at least 3 kg, or for patients in whom film-coated tablets are not appropriate. Tivicoy is available as film-coated tablets for patients aged 6 years and above and weighing at least 14 kg. Patients can change between dispersible tablets and film-coated tablets. However, the bioavailability of dispersible tablets and film-coated tablets is not comparable, therefore they are not interchangeable on a milligram per milligram basis (see section 5.2). For example, the recommended adult dose for dispersible tablets is 30 mg versus 50 mg for film-coated tablets. Patients changing between dispersible and film-coated tablets should follow the dosage recommendations that are specific for the formulation. Concomitant use  
If the patient misses a dose of Tivicoy, the patient should take Tivicoy as soon as possible, providing the next dose is not due within 4 hours. If the next dose is due within 4 hours, the patient should not take the missed dose and simply resume the usual dosing schedule.

Body weight (kg)	Dose
3 to less than 6	---
6 to less than 10	5 mg twice daily
10 to less than 14	10 mg twice daily
14 to less than 20	15 mg twice daily
20 or greater	30 mg twice daily

**Table 2 Alternative paediatric dose recommendations for dispersible tablets**  
Dolutegravir increased metformin clearance. The dose adjustment of metformin should be considered when starting and stopping coadministration of dolutegravir with metformin, to maintain glycaemic control (see section 4.5). Metformin is eliminated renally and, therefore, it is of importance to monitor renal function when co-treated with dolutegravir. This combination may increase the risk for lactic acidosis with medicinal products with moderate renal impairment (stage 3 creatinine clearance [CrCl] 45–59 mL/min) and a cautious approach is recommended. Reduction of the metformin dose should be highly considered. Osteonecrosis  
Although the aetiology is considered to be multifactorial (including corticosteroid use, bisphosphonates, alcohol consumption, severe immunosuppression, higher body mass index), cases of osteonecrosis have been reported in patients with advanced HIV-disease and/or long-term exposure to CART. Patients should be advised to seek medical advice if they experience joint aches and pain, joint stiffness or difficulty in movement.  
Weight and metabolic parameters  
An increase in weight and in levels of blood lipids and glucose may occur during antiretroviral therapy. Such changes may be linked to increased disease control and lifestyle. For lipids, there is some case evidence for a treatment effect, while for weight gain there is no strong evidence relating this to any particular treatment. For monitoring of blood lipids and glucose reference is made to established clinical guidelines. Lipid disorders should be managed as clinically appropriate.  
Lamivudine and dolutegravir  
The two drug regimen of dolutegravir 50 mg film-coated tablets once daily and lamivudine 300 mg once daily was explored in two large randomized and blinded studies, GEMINI 1 and GEMINI 2 (see section 5.1). This regimen is only suitable for the treatment of HIV-1 infection where there is no known or suspected resistance to the integrase inhibitor class, or to lamivudine.  
Elderly  
There are limited data available on the use of dolutegravir in patients aged 65 years and over. There is no evidence that elderly patients require a different dose than younger adult patients (see section 5.2).  
Renal impairment  
No dose adjustment is required in patients with mild, moderate or severe GFR <30 mL/min, not on dialysis renal impairment. No data are available in subjects receiving dialysis although differences in pharmacokinetics are not expected in this population (see section 5.2).  
Hepatic impairment  
No dose adjustment is required in patients with mild or moderate hepatic impairment (Child-Pugh grade A or B). No data are available in patients with severe hepatic impairment (Child-Pugh grade C); therefore dolutegravir should be used with caution in these patients (see section 5.2).  
Paediatric population  
The safety and efficacy of dolutegravir in children aged less than 4 weeks or weighing less than 3 kg have not yet been established. There are insufficient data to recommend a dose for dolutegravir in integrase inhibitor resistant adolescents, children and infants.  
Film-coated tablets  
Tivicoy is available as dispersible tablets for patients aged 4 weeks and above and weighing at least 3 kg, or for patients in whom film-coated tablets are not appropriate. Tivicoy is available as film-coated tablets for patients aged 6 years and above and weighing at least 14 kg. Patients can change between dispersible tablets and film-coated tablets. However, the bioavailability of dispersible tablets and film-coated tablets is not comparable, therefore they are not interchangeable on a milligram per milligram basis (see section 5.2). For example, the recommended adult dose for dispersible tablets is 30 mg versus 50 mg for film-coated tablets. Patients changing between dispersible and film-coated tablets should follow the dosage recommendations that are specific for the formulation. Concomitant use  
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20 or greater	30 mg twice daily

**Interaction table**  
Interactions between dolutegravir and co-administered medicinal products are listed in Table 3 (increase is indicated as “↑”, decrease as “↓”, no change as “=”, area under the concentration vs time curve as “AUC”, maximum observed concentration as “C<sub>max</sub>”, concentration at end of dosing interval as “C<sub>tr</sub>”).  
**Table 3: Drug Interactions**

**Medicinal products by therapeutic areas**  
**HIV-1 Antiviral Agents**  
Non-nucleoside Reverse Transcriptase Inhibitors  
Etravirine without boosted protease inhibitors  
Etravirine + dolutegravir  
AUC ↑ 71%  
C<sub>max</sub> ↓ 52%  
C<sub>tr</sub> ↓ 88%  
Etravirine + dolutegravir  
AUC ↓ 49%  
C<sub>max</sub> ↓ 33%  
C<sub>tr</sub> ↓ 73%  
Etravirine + dolutegravir  
AUC ↓ 49%  
C<sub>max</sub> ↓ 33%  
C<sub>tr</sub> ↓ 73%  
Etravirine + dolutegravir  
AUC ↓ 49%  
C<sub>max</sub> ↓ 33%  
C<sub>tr</sub> ↓ 73%  
Etravirine + dolutegravir  
AUC ↓ 49%  
C<sub>max</sub> ↓ 33%  
C<sub>tr</sub> ↓ 73%



