Tekturna

Procedural steps taken and scientific information after the authorisation

A

MAJOR CHANGES¹

No	Scope	Opinion issued on	Commission Decision Issued/ amended on	Product Information affected ²	Summary
II/0034	Update of Summary of Product Characteristics Update of SPC section 5.1 to delete the existing sentence relating to elevated plasma renin activity and cardiovascular outcomes.	19/03/2009	22/04/2009	SPC	The following sentence h. super leleted from SPC section 5.1 based on the fact that currently no data are available to directly link the reduction in ren'no thore y induced by aliskiren with effects on cardiovascular on the mes: "Elevated PRA has been independently associated with increased cardiovascular risk in hypertensive and norm car sive patients." as currently there is no evidence available proving that changes in renin activity induced by antihypertensive and might have an important role in cardiovascular disease.
II/0033	Update of Summary of Product Characteristics and Package Leaflet Update of SPC section 4.4 to include a warning of events of renal dysfunction in at- risk patients and to amend the existing text for renal artery stenosis following the CHMP assessment of PSURs. SPC section 4.8 has been updated relating to events of renal dysfunction and acute renal failure during post-marketing experience. The package leafet has been amended accordingly.	19/02/2009	03/04/2009	SPC, PL	For aliskiren, cases of renal dysfunction with relevant occurrence were reported in the postmarketing use (PSUR 1 and PSUR 2). Following evaluation of the available postmarketing data, the CHMP concluded to add a warning to SPC section 4.4 that caution should be exercised when aliskiren is given in the presence of conditions pre- disposing to kidney dysfunction such as hypovolemia (eg. due to blood loss, severe or prolonged diarrhea, prolonged vomiting, etc.), heart disease, liver disease or kidney disease. Acute renal failure, reversible upon discontinuation of treatment, has been reported in at-risk patients receiving aliskiren in post-marketing experience In the event that any signs of renal failure occur, aliskiren should be promptly discontinued. Furthermore, SPC section 4.8 was also amended.
II/0032	Update of Summary of 1 rod, ct Characteristics an 1 rac age Leaflet Update of SPC section 4.5 to include a soltener or garding the potential interaction with nor steroidal anti-inflammatory agents	19/02/2009	03/04/2009	SPC, PL	The MAH was requested to add a statement regarding the potential for interaction between NSAID's and agents acting on the Renin Angiotensin System to SPC section 4.5. As with other agents acting on the renin -angiotensin system, NSAIDs may reduce the anti- hypertensive effect of aliskiren. In some patients with compromised renal function (dehydrated patients or elderly patients) aliskiren given

¹ Major changes e.g. Type II variations, Annex II applications, Renewals and Annual Reassessments ² SPC (Summary of Product Characteristics), Annex II, Labelling, PL (Package Leaflet)

No	Scope	Opinion issued on	Commission Decision Issued/ amended on	Product Information affected ²	Summary
	(NSAIDs). The package leaflet has been amended accordingly.				concomitantly with NSAIDs may result in furthe <i>detector</i> ation of renal function, including possible acute renal failure, which is usually reversible. Therefore the combination of a disking n with an NSAID requires caution, especially in elderity b, tients. The package leaflet has been amended accordingly
П/0031	Update of Summary of Product Characteristics and Package Leaflet Update of SPC sections 4.3 and 4.4 to include a contraindication on the use in patients with prior history of angioedema and a warning of angioedema-type reactions as for other agents acting on the renin- angiotensin system respectively, following the CHMP assessment of PSURs. Furthermore, SPC section 4.8 has been revised regarding angioedema cases and the Package Leaflet has been updated in accordance with the SPC changes.	19/02/2009	03/04/2009	SPC, PL	For aliskiren, cases of anglo den a with relevant occurrence were reported in the postmark theorem as Following the assessment of the available data, the Ch We concluded that a contraindication for patients with a history of anglo dema with aliskiren is needed. In addition, a warning of anglo dema-type reactions as for other agents acting on the real static anglo dema system has been added to SPC section 4.4 recommending that patients without a previous history who suffer angle edema with aliskiren should discontinue treatment and contact their doctor. Furthermore, the term "anglo dema" has been added as a rare adverse drug reaction to SPC section 4.8.
II/0029	Update of or change(s) to the pharmaceutical documentation	23/10/2008	0. 11 2008		
II/0026	Update of Summary of Product Characteristics, Labelling and Package Leaflet Update of SPC section 4.3 "Contraindications" and section 4.5 "Interactions" following new information from a cyclosporine dr. g- irug interaction study (SPP1/0, 2, 06), which was subject to a Follow-1 p Neasure. Further revisions vore nroduced to section SPC sections 4.4 "V rnings and Precautions for use" and 4.5. "I e package leaflet has been amended accordingly. In addition, minor corrections have been included in the relevant sections of SPC, labelling and package leaflet with	24/01/2018	28/08/2008	SPC, Labelling, PL	The results of the cyclosporine interaction study in 14 subjects showed that concomitant cyclosporine administration increased AUC 4.5 to 5.5 fold with a lower dose of aliskiren (75 mg) than the authorised strengths (150 and 300mg). Also cyclosporine markedly increased aliskiren t1/2. Hence, there is concern that the increase in AUC would be substantially higher with the approved aliskiren dosage, even exceeding the highest dose tested in humans. An additional concern is that aliskiren might distribute to tissues from which the medicinal product is normally absent in presence of a P-gp inhibitor, or preset at low levels because of the activity of P-gp. Non clinical and clinical data converge to show that P-gp is a major determinant of aliskiren bioavailability. In addition, literature data show that P-gp inhibitors can markedly increase the tissue-to-plasma concentration ratios.

No	Scope	Opinion issued on	Commission Decision Issued/ amended on	Product Information affected ²	Summary	2	
	regard to the active substance (aliskiren hemifumarate) and also for PL section 5.				for very large increase in tissue exposu the co-administration of cyclosporine a concerns. Therefore, a contraindication administration with cyclosporine, and g well as with other potent P g inhibitor considered essential. Mo. over, due to tissue exposure than in plasma, caution administration you in oderate P-gp inhib clarithromycin, telit.romycin, erythrom	nd a'iskirce poses for the concomit ly potent P-gp in (verapamil, quini the risk for highe should be advise bitors (ketoconaz	s serious safety ant hibitor, as idine) is r increase in ed during co col, itraconazol,
II/0028	Update of Summary of Product Characteristics Update of SPC section 5.1 "Pharmacodynamic Properties" with efficacy data from a clinical study (study SPP100C2201) in patients with nephropathy.	30/05/2008	09/07/2008	SPC	Stud v SPP100C2201, a 6 monthly rand con rolled study investigated the effect on proteinuria in 599 patients with hyp mellitus in whom blood pressure had b means of an angiotensin receptor block with the optional use of other antihypen (hydrochlorothiazide and/or amlodipina aliskiren achieved an average reduction creatinine (UACR) ratio of 12 mg/mmo compared to placebo. Aliskiren did not blood pressure or affect estimated GFR clinical relevance of a reduction in UA absence of an effect on blood pressure. associated with an increased frequency serum potassium concentration (? 6 mm	s of aliskiren (150 ertension and Typ een previously co er (losartan) in co tensive drugs e). The addition o in the urinary all of (from 58 to 46 induce any signif under these cond CR is not establis Furthermore, alis (4.2% vs. 1.9% f	Omg / 300mg) be II 2 diabetes ontrolled by ombination of 300mg bumin to mg/mmol) ficant effect on litions. The hed in the skiren was
II/0027	Update of Summary of Product Characteristics	30/05/2008	09/07/2008	SPC			
MINOR C	CHANGES ³						
No	Slop :					Product Information affected ²	Date ⁴

³ Minor changes e.g. Type I variations and Notifications ⁴ Date of entry into force of the change

No	Scope	Product Information affected ²	Date ⁴
IB/0038	33_Minor change in the manufacture of the finished product		29/04/2009
IB/0036	07_c_Replacement/add. of manufacturing site: All other manufacturing operations ex. batch release		29/04/2009
IA/0037	32_a_Change in batch size of the finished product - up to 10-fold		11/02/2009
IA/0035	07_a_Replacement/add. of manufacturing site: Secondary packaging site		11/02/2009
	07_b_01_Replacement/add. of manufacturing site: Primary packaging site - Solid forms		
IB/0012	10_Minor change in the manufacturing process of the active substance		31/01/2008
	12_b_02_Change in spec. of active subst./agent in manuf. of active subst test parameter		
IB/0002	12_b_02_Change in spec. of active subst./agent in manuf. of active subst test parameter		13/11/2007
IB/0001	12_b_02_Change in spec. of active subst./agent in manuf. of active subst test parameter		13/11/2007
IA/0020	11_a_Change in batch size of active substance or intermediate - up to 10-fold		12/11/2007
IA/0019	11_a_Change in batch size of active substance or intermediate - up to 10-fold		12/11/2007
IA/0018	11_a_Change in batch size of active substance or intermediate - up to 10-fold		12/11/2007
IA/0017	11_a_Change in batch size of active substance or intermediate - up to 10-fold		12/11/2007
IA/0016	11_a_Change in batch size of active substance or intermediate - up to 10-fold		12/11/2007
IA/0015	11_a_Change in batch size of active substance or intermediate - up to 10-fold		12/11/2007
IA/0014 IA/0013	11_a_Change in batch size of active substance or intermediate - up to 10-fold 11_a_Change in batch size of active substance or intermediate - up to 10-fold		12/11/2007 12/11/2007
	II_a_Change in batch size of active substance or intermediate - up to 10-fort		