

Applicant: Aurogen South Africa (Pty) Ltd
Product Name: ROLIXIRD 450 MG
Dosage form and strength: Film coated Tablet, Each tablet contains 496.36 mg of Valganciclovir Hydrochloride equivalent to 450 mg of Valganciclovir.

MODULE 1
 1.3.1.1
Date: 2020.02.03
Submitted date: 2020.09.25

1.3.1.1 Professional Information for Medicines for Human Use approved

LINE NO		REFERENCE
1.	SCHEDULING STATUS	
2.	S4	
3.		
4.	1. NAME OF THE MEDICINE	As requested by SAHPRA
5.	ROLIXIRD 450 MG 450 mg film coated tablets.	
6.	Strength: Each Film-coated tablet contains 450 mg valganciclovir	
7.	Pharmaceutical form: Film-coated Tablets	
8.		
9.	2. QUALITATIVE AND QUANTITATIVE COMPOSITION	
10.	ROLIXIRD 450 MG 450 mg film coated tablets :	
11.	Each film coated tablet contains 496.36 mg of Valganciclovir	
12.	hydrochloride equivalent to 450 mg of valganciclovir.	
13.	Sugar-free,	
14.	For full list of excipients, see section 6.1.	
15.		
16.	3. PHARMACEUTICAL FORM	
17.	ROLIXIRD 450 MG 450 mg film coated Tablets:	
18.	Pink colored, oval shaped biconvex, film-coated tablets, debossed with	
19.	'H' on one side and '96' on other side.	
20.		
21	4. CLINICAL PARTICULARS	
22.	4.1. Therapeutic indications	

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23.	ROLIXIRD 450 MG is indicated for the treatment of cytomegalovirus	As requested by SAHPRA
24.	(CMV) retinitis in acquired immunodeficiency syndrome (AIDS)	
25.	patients.	
26.	The prevention of CMV disease in solid organ transplant patients at	
27.	risk i.e. donor seropositive and recipient seronegative.	
28.		
29.	4.2. Posology and method of administration	
30.	Posology - Strict adherence to dosage recommendations is	As requested by SAHPRA
31.	essential to avoid overdose.	
32.	The bioavailability of ganciclovir from ROLIXIRD 450 MG is up to 10-	
33.	fold higher than from ganciclovir capsules, therefore the dosage and	
34.	administration of ROLIXIRD 450 MG should be closely followed.	
35.		
36.	Treatment of cytomegalovirus (CMV) retinitis	
37.	Standard dosage in adult patients	
38.	Induction treatment of CMV retinitis	
39.	For patients with active CMV retinitis, the recommended dose is 900	
40.	mg ROLIXIRD 450 MG twice a day for 21 days. Prolonged induction	
41.	treatment may increase the risk of bone marrow toxicity.	
42.	Maintenance treatment of CMV retinitis	
43.	Following induction treatment, or in patients with inactive CMV retinitis,	
44.	the recommended dose is 900 mg ROLIXIRD 450 MG once daily.	
45.	Patients whose retinitis worsens may repeat induction treatment;	
46.	however, consideration should be given to the possibility of viral drug	
47.	resistance.	
48.	Prevention of CMV disease in solid organ transplantation	
49.		

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50.	For kidney transplant patients, the recommended dose is 900 mg once							
51.	daily depending on creatinine clearance, starting within 10 days of							
52.	transplantation until 200 days post-transplantation.							
53.	For patients who have received a solid organ transplant other than the							
54.	kidney, the recommended dose is 900 mg once daily, starting within 10							
55.	days of transplantation until 100 days post transplantation.							
56.								
58.	Special Dosage instructions	As requested by SAHPRA						
59.	Patients with renal impairment							
60.	Serum creatinine levels or creatinine clearance should be monitored							
61.	carefully. Dosage adjustment is required for adult patients based on							
62.	creatinine clearance, as shown in tables 2 and 3 below.							
63.	Creatinine clearance (mL/min) is calculated from serum creatinine by							
64.	the following formulae:							
65.	$CL_{CR} \text{ (mL/min)} = \frac{(140 - \text{age}) \times (\text{Wt [kg]}) \times \text{constant}^*}{S_{CR} \text{ [}\mu\text{mol/l]}}$							
66.								
67.	* Constant = 1,23 for males and 1,04 for females (0,85 x 1,23 = 1,04)							
68.	The South African Renal Society recommends simplifying the above							
69.	formula by omitting the constant of 1,23 for males							
70.	$CL_{CR} \text{ (mL/min)} = \frac{(140 - \text{age}) \times (\text{Wt [kg]}) \times 0,85 \text{ (if female)}}{S_{CR} \text{ [}\mu\text{mol/l]}}$							
71.								
72.	CLCR = creatinine clearance							
73.	SCR = serum creatinine							
74.	ROLIXIRD 450 MG 450 film-coated tablet dose for renally impaired							
75.	patients							
76.	<table border="1"> <tr> <td>CrCl</td> <td>Induction dose of</td> <td>Maintenance/Prevention</td> </tr> <tr> <td>(mL/min)</td> <td>ROLIXIRD 450 MG</td> <td>dose of ROLIXIRD 450</td> </tr> </table>		CrCl	Induction dose of	Maintenance/Prevention	(mL/min)	ROLIXIRD 450 MG	dose of ROLIXIRD 450
CrCl	Induction dose of		Maintenance/Prevention					
(mL/min)	ROLIXIRD 450 MG	dose of ROLIXIRD 450						
77.								

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78.			450 film-coated	MG 450 film coated	
79.			tablet	tablet	
80.		≥ 60	900 mg twice daily	900 mg once daily	
81.		40 – 59	450 mg twice daily	450 mg once daily	
82.		25 – 39	450 mg once daily	450 mg every 2 days	
83.		10 – 24	450 mg every 2 days	450 mg twice weekly	
84.			(tablets)		
85.		< 10	Not recommended	Not recommended	
86.					
87.					
88.					
89.	Patients undergoing haemodialysis				
90.	For patients on haemodialysis (CrCl < 10 mL/min) a dose				
91.	recommendation cannot be given. Thus ROLIXIRD 450 MG film				
92.	coated tablets should not be used in these patients (See sections 4.4				
93.	and 5.2).				
94.	Patients with severe leucopenia, neutropenia, anaemia,				As requested by SAHPRA
95.	thrombocytopenia and pancytopenia Patients with severe				
96.	leucopenia, neutropenia, anaemia, thrombocytopenia and				
97.	pancytopenia, bone marrow depression and aplastic anaemia have				
98.	been observed in patients treated with ROLIXIRD 450 MG and				
99.	ganciclovir. Therapy should not be initiated if the absolute neutrophil				
100.	count is less than 500				
101.	Cells /µl or the platelet count is less than 25 000/µl or the				
102.	haemoglobin is less than 8 g/dl. (See section 4.4).				
103.	Elderly: Safety and efficacy have not been established.				
104.					

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105.	Paediatric patients:	
106.	Safety and efficacy have not been established in adequate and well-	
107.	controlled clinical studies.	
108.		
109.	Method of administration	As requested by SAHPRA
110.	ROLIXIRD 450 MG is administered orally, and should be taken with	
111.	food.	
112.	ROLIXIRD 450 MG is administered orally, and should be taken with	
113.	food.	
114.	Precautions to be taken before handling or administering the medicine	
115.	The tablets should not be broken or crushed. Since Valganciclovir	
116.	Teva is considered a potential teratogen and carcinogen in humans,	
117.	caution should be observed in handling broken tablets (see section	
118.	4.4). Avoid direct contact of broken or crushed tablets with skin or	
119.	mucous membranes. If such contact occurs, wash thoroughly with	
121.	soap and water, rinse eyes thoroughly with sterile water, or plain water	
122.	if sterile water is unavailable.	
123.		
124.		
125.	4.3. Contraindications	
126.	ROLIXIRD 450 MG is contraindicated in patients with known	As requested by SAHPRA
127.	hypersensitivity to valganciclovir, ganciclovir or to any excipient of the	
128.	product. Due to the similarity of the chemical structure of ROLIXIRD	
129.	450 MG and that of aciclovir and valaciclovir, a cross-hypersensitivity	
130.	reaction between these medicines is possible.	
131.		
132.	4.4. Special warnings and precautions for use	

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133.	Porphyria. The Drug Database for Acute Porphyria, compiled by the	
134.	Norwegian Porphyria Centre (NAP O S) and the Porphyria Centre	
135.	Sweden, classifies valganciclovir as not porphyrinogenic; it may be	
136.	used as a drug of first choice and no precautions are needed.	
137.		
138.	Women of child-bearing potential must be advised to use effective	As requested by SAHPRA
139.	contraception during treatment. Male patients should be advised to	
140.	practice barrier contraception during, and for at least 90 days following	
141.	treatment with ROLIXIRD 450 MG.	
142.		
143.	Severe leucopenia, neutropenia, anaemia, thrombocytopenia,	
144.	pancytopenia, bone marrow depression and aplastic anaemia have	
145.	been observed in patients treated with ROLIXIRD 450 MG and	
146.	ganciclovir. Therapy should not be initiated if the absolute neutrophil	
147.	count is less than 500 cells/ μl , or the platelet count is less than 25	
148.	000/ μl , or the haemoglobin level is less than 8 g/dl.	
149.	When extending prophylaxis beyond 100 days the possible risk of	
150.	developing leukopenia and neutropenia should be taken into account	
151.	(see sections 4.2, 4.8 and 5.1).	
152.	Valganciclovir should be used with caution in patients with pre-existing	
153.	haematological cytopenias or a history of drug-related haematological	
154.	cytopenia and in patients receiving radiotherapy.	
155.		
156.	It is recommended that complete blood counts and platelet counts be	As requested by SAHPRA
157.	monitored during therapy. In patients with severe leucopenia,	
158.	neutropenia, anaemia and/or thrombocytopenia, it is recommended	
159.		

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160.	that treatment with haematopoietic growth factors and/or dose	
161.	interruption be considered. (See section 4.2)	
162.	Safety and efficacy in children have not been established in adequate	As requested by SAHPRA
163.	and well-controlled clinical studies. (See section 4.2)	
164.		
165.	The bioavailability of ganciclovir from ROLIXIRD 450 MG is up to 10-	As requested by SAHPRA
166.	fold higher than from ganciclovir capsules. ROLIXIRD 450 MG cannot	
167.	be substituted for ganciclovir capsules on a one-to-one basis. Patients	
168.	switching from ganciclovir capsules should be advised of the risk of	
169.	over dosage if they take more than the prescribed number of	
170.	ROLIXIRD 450 MG tablets. (See section 4.2).	
171.		
172.	In patients with impaired renal function, dosage adjustments based on	As requested by SAHPRA
173.	creatinine clearance are required. (See section 4.2) For patients on	
174.	haemodialysis (CrCl < 10 mL/min) a tablet dose recommendation	
175.	cannot be given.	
176.	Convulsions have been reported in patients taking ganciclovir and	As requested by SAHPRA
177.	imipenem-cilastatin concomitantly. ROLIXIRD 450 MG should not be	
178.	used concomitantly with imipenem-cilastatin unless the potential	
179.	benefit outweighs the potential risks. (See section 4.5).	
180.		
181.	Zidovudine and ROLIXIRD 450 MG each have the potential to cause	As requested by SAHPRA
182.	neutropenia and anaemia. Some patients may not tolerate	
183.	concomitant therapy at full dosage. (See section 4.5).	
184.		

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185.	Didanosine plasma concentrations may increase during concomitant	As requested by SAHPRA
186.	use with ROLIXIRD 450 MG, therefore patients should be closely	
187.	monitored for didanosine toxicity. (See section 4.5).	
188.		
189.	Concomitant use of other medicines that are known to be	As requested by SAHPRA
190.	myelosuppressive or associated with renal impairment with ROLIXIRD	
191.	450 MG may result in added toxicity. (See section 4.5).	
192.		
193.	Since ROLIXIRD 450 MG is considered a potential teratogen and	
194.	carcinogen in humans. If a broken tablet makes direct contact with	
195.	skin, the area should be washed thoroughly with soap and water. If	
196.	the solution gets into the eye, the eye should immediately be	
197.	thoroughly washed with water.	
198.		
199.	4.5. Interaction with other medicines and other forms of	
200.	interaction	
201.	The following medicines, valganciclovir, didanosine, nelfinavir,	
202.	ciclosporin, omeprazole and mycophenolate mofetil did not affect the	
203.	permeability of valganciclovir (rat in-situ model).	
204.	ROLIXIRD 450 MG is metabolised to ganciclovir.	
205.		
206.	Therefore, interactions associated with ganciclovir will be expected for	
207.	ROLIXIRD 450 MG.	
208.		
209.	Imipenem-cilastatin: Convulsions have been reported in patients	As requested by SAHPRA
210.	taking ganciclovir and imipenem-cilastatin concomitantly. These	
211.		

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212.	medicines should not be used concomitantly unless the potential	
213.	benefit outweighs the potential risks. (See Section 4.4).	
214.	Probenecid: Probenecid given with oral ganciclovir resulted in	
215.	statistically significant decreased renal clearance of ganciclovir (20 %)	
216.	leading to statistically significantly increased exposure (40 %). These	
217.	changes were consistent with a mechanism of interaction involving	
218.	competition for renal tubular excretion. Therefore, patients taking	
219.	probenecid and ROLIXIRD 450 MG should be closely monitored for	
220.	Ganciclovir toxicity.	
221.		
223.	Zidovudine: When zidovudine was given in the presence of oral	As requested by SAHPRA
224.	ganciclovir there was a small (17 %), but statistically significant	
225.	increase in the AUC of zidovudine. There was also a trend towards	
226.	lower ganciclovir concentrations when administered with zidovudine,	
227.	although this was not statistically significant. However, since both	
228.	zidovudine and ganciclovir have the potential to cause neutropenia	
229.	and anaemia, some patients may not tolerate concomitant therapy at	
230.	full dosage. (See: Section 4.4).	
231.		
232.	Didanosine: Didanosine plasma concentrations were found to be	As requested by SAHPRA
233.	consistently raised when given with ganciclovir (both intravenous and	
234.	oral). At ganciclovir oral doses of 3 and 6 g/day, an increase in the	
235.	AUC of didanosine ranging from 84 to 124 % has been observed, and	
236.	likewise at intravenous doses of 5 and 10 mg/kg/day, an increase in	
237.	the AUC of didanosine ranging from 38 to 67 % has been observed.	
238.	This increase cannot be explained by competition for renal tubular	
239.	secretion, as there was an increase in the percentage of didanosine	

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240.	dose excreted. This increase could arise from either increased	
241.	bioavailability or decreased metabolism. There was no clinically	
242.	significant effect on ganciclovir concentrations. However, given the	
243.	increase in didanosine plasma concentrations in the presence of	
244.	ganciclovir, patients should be closely monitored for didanosine	
245.	toxicity. (See: Section 4.4).	
246.		
247.	Mycophenolate Mofetil: Based on the results of a single dose	
248.	administration study of recommended doses of oral mycophenolate	
249.	mofetil (MMF) and intravenous ganciclovir and the known effects of	
250.	renal impairment on the pharmacokinetics of MMF and ganciclovir, it is	
251.	anticipated that co- administration of these agents (which have the	
252.	potential to compete for renal tubular secretion) will result in increases	
253.	in phenolic glucuronide of mycophenolic acid (MPAG) and ganciclovir	
254.	concentration. No substantial alteration of mycophenolic acid (MPA)	
255.	pharmacokinetics is anticipated and MMF dose adjustment is not	
256.	required. In patients with renal impairment in which MMF and	
257.	ganciclovir are co-administered, the dose recommendation of	
258.	ganciclovir should be observed and patients monitored carefully.	
259.		
260.	Zalcitabine increased the AUC _{0-8h} of oral ganciclovir by 13 %. There	
261.	were no statistically significant changes in any of the other	
262.	pharmacokinetic parameters assessed. Additionally there were no	
263.	clinical relevant changes in zalcitabine pharmacokinetics in the	
264.	presence of oral ganciclovir although a small increase in the	
265.	elimination rate constant was observed.	
266.		

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267.	Both ROLIXIRD 450 MG and zalcitabine have the potential to cause	
268.	peripheral neuropathy and patients should be monitored for such	
269.	events.	
270.	Stavudine: No statistically significant pharmacokinetic interactions	
271.	were observed when stavudine and oral ganciclovir were given in	
272.	combination.	
273.		
274.	Trimethoprim: Trimethoprim statistically significantly decreased the	
275.	renal clearance of oral ganciclovir by 16,3 % and this was associated	
276.	with a statistically significant decrease in the terminal elimination rate	
277.	and the corresponding increase in half-life by 15 %. However, these	
278.	changes are unlikely to be clinically significant, as AUC_{0-8h} and C_{max}	
279.	were unaffected. The only statistically significant change in	
282.	trimethoprim pharmacokinetic parameters when co-administered with	
283.	ganciclovir was a 12 % increase in C_{min} . However, this is unlikely to be	
284.	of clinical significance and no dose adjustment is recommended.	
285.		
286.	Ciclosporin: There was no evidence that introduction of ganciclovir	
287.	affects the pharmacokinetics of ciclosporin based on the comparison	
288.	of ciclosporin trough concentrations. However, there was some	
289.	evidence of increases in the maximum serum creatinine value	
290.	observed following initiation of ganciclovir therapy.	
291.		
292.	Other potential interactions: Toxicity may be enhanced when	As requested by SAHPRA
293.	ganciclovir is co-administered with, or is given immediately before or	
294.	after, other medicines that inhibit replication of rapidly dividing cell	
295.	populations such as occur in the bone marrow, tested and germinal	

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296.	layers of the skin and gastrointestinal mucosa, or that are associated	
297.	with renal impairment (such as dapsone, pentamidine, flucytosine,	
298.	vincristine, vinblastine, adriamycin, amphotericin B, trimethoprim/sulfa	
299.	combinations, nucleoside analogues and hydroxyurea). Therefore,	
300.	these medicines should be considered for concomitant use with	
301.	ROLIXIRD 450 MG only if the potential benefits outweigh the potential	
302.	risks. (See: Section 4.4).	
303.		
304.	4.6. Fertility, pregnancy and lactation	As requested
305.	Effects on fertility:	by SAHPRA
306.	No human data on the effect of valganciclovir on fertility are available.	
307.	Fertility studies have not been repeated with valganciclovir because of	
308.	the rapid and extensive conversion of valganciclovir to ganciclovir in	
309.	the body. Ganciclovir is associated with impaired fertility in animal	
310.	studies (see section 5.3).	
311.		
312.	Pregnancy	As requested
313.	ROLIXIRD 450 MG active metabolite ganciclovir readily diffuses	by SAHPRA
314.	across the human placenta. The safety of ROLIXIRD 450 MG for use	
315.	in pregnant women has not been established.	
316.		
317.	Breastfeeding	As requested
318.	Pre-and postnatal development has not been studied with ROLIXIRD	by SAHPRA
319.	450 MG, but the possibility of ganciclovir being excreted in breast milk	
321.	and causing serious adverse reactions in the breast- fed infant.	
322.	Women using ROLIXIRD 450 MG should not breastfeed their infants.	
323.		

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<p>324. 325. 326. 327. 328. 329.</p>	<p>4.7. Effects on ability to drive and use machines</p> <p>Convulsions, dizziness, and confusion have been reported with the use of ROLIXIRD 450 MG. If they occur, such effects may affect tasks requiring alertness, including the patient's ability to drive and operate machinery.</p>	<p>As requested by SAHPRA</p>
<p>330. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348.</p>	<p>4.8. Undesirable effects</p> <p>a. Summary of the safety profile</p> <p>The most commonly reported adverse drug reactions following administration of ROLIXIRD 450 MG in adults are neutropenia, anaemia and diarrhoea.</p> <p>Adverse reactions are listed according to MedDRA system organ class. Frequency categories are defined using the following convention: very common ($\geq 1/10$), common ($\geq 1/100$ to $< 1/10$), uncommon ($\geq 1/1,000$ to $< 1/100$), rare ($\geq 1/10,000$ to $< 1/1,000$) and very rare ($< 1/10,000$).</p> <p>The overall safety profile of valganciclovir is consistent in HIV and transplant populations except that retinal detachment has only been reported in patients with CMV retinitis. However, there are some differences in the frequency of certain reactions. Valganciclovir is associated with a higher risk of diarrhoea, Pyrexia, candida infections, depression, severe neutropenia (ANC $< 500/\mu\text{L}$) and skin reactions are reported more frequently in patients with HIV. Renal and hepatic dysfunction are reported more frequently in organ transplant recipients.</p>	<p>As requested by SAHPRA</p>
<p>349.</p>	<p>b. Tabulated list of adverse reactions</p>	

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	System Organ Class	Frequency Category	As requested by SAHPRA
350.			
351.	Infections and infestations:		
352.	Candida infections including oral candidiasis.	Frequent	
353.	Upper respiratory tract infection		
354.	Sepsis		
355.	Influenza		
356.	Urinary tract infection		
357.	Cellulitis		
358.	Blood and lymphatic disorders:		
359.	Neutropenia	Frequent	
360.	Anaemia		
361.	Thrombocytopenia		
362.	Leukopenia		
363.	Pancytopenia		
364.	Bone marrow failure	Less Frequent	
365.	Aplastic anaemia		
366.	Agranulocytosis*		
367.	Granulocytopenia*		
368.	Immune system disorders:		
369.	Hypersensitivity	Frequent	
370.	Anaphylactic reaction*	Less Frequent	
371.	Metabolic and nutrition disorders:		
372.	Decreased appetite	Frequent	
374.	Weight decreased		
375.	Psychiatric disorders:		
376.	Depression	Frequent	
377.	Confusional state		

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378.	Anxiety		
379.	Agitation, Psychotic disorder,	Less Frequent	
380.	Psychotic disorder		
380.	Thinking abnormal		
381.	Hallucinations		
382.	Nervous system disorders:		
383.	Headache	Frequent	
384.	Insomnia		
385.	Neuropathy peripheral		
386.	Dizziness		
387.	Paraesthesia		
388.	Hypoaesthesia		
389.	Seizure		
390.	Dysgeusia (taste disturbance)		
389.	Tremor		Less Frequent
390.	Eye disorders:		
391.	Visual impairment	Frequent	
392.	Retinal detachment**		
393.	Vitreous floaters		
394.	Eye pain		
395.	Conjunctivitis		
396.	Macular oedema		
397.	Ear and labyrinth disorders:		
398.	Ear pain	Frequent	
399.	Deafness	Less Frequent	
400.	Cardiac disorders :		
401.	Dysrhythmias	Less Frequent	
	Vascular disorders :		

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402.	Hypotension	Frequent	
401.	Respiratory, thoracic and mediastinal disorders:		
402.	Cough	Frequent	
403.	Dyspnoea		
404.	Gastrointestinal disorders:		
405.	Diarrhoea	Frequent	
406.	Nausea		
407.	Vomiting		
408.	Abdominal pain		
409.	Dyspepsia		
410.	Flatulence		
411.	Abdominal pain upper		
412.	Constipation		
413.	Mouth ulceration		
414.	Dysphagia		
415.	Abdominal distention		
416.	Pancreatitis		
417.	Hepato-biliary disorders:		
418.	Blood alkaline phosphatase increased		Frequent
419.	Hepatic function abnormal		
420.	Aspartate aminotransferase increased		
421.	Alanine aminotransferase increased		
422.	Skin and subcutaneous tissues disorders:		
423.	Dermatitis	Frequent	
424.	Night sweats	Frequent	
425.	Pruritus		
426.	Rash		

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427.	Alopecia		
428.	Dry skin	Less Frequent	
429.	Urticaria		
430.	Musculo-skeletal and connective tissue disorders:		
431.	Spasms	Frequent	
432.	Myalgia		
433.	Arthralgia		
434.	Muscle spasms		
435.	Renal and urinary disorders:		
436.	Renal impairment	Frequent	
437.	Creatinine clearance renal decreased		
438.	Blood creatinine increased		
439.	Renal failure	Less Frequent	
440.	Haematuria		
441.	Reproductive system and breast disorders:		
442.	Infertility male	Less Frequent	
443.	General disorders and administration site conditions:		
444.	Pyrexia	Frequent	
445.	Fatigue		
446.	Pain, Chills, Malaise, Asthenia,	Frequent	
447.	Chills		
448.	Malaise		
449.	Asthenia		
450.	Chest pain	Less Frequent	
451.			
452.			
453.			

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<p>454. 456. 457. 458. 459. 460.</p>	<p>c. Description of selected adverse reactions</p> <p>The risk of neutropenia is not predictable on the basis of the number of neutrophils before treatment. Neutropenia usually occurs during the first or second week of induction therapy. The cell count usually normalises within 2 to 5 days after discontinuation of the drug or dose reduction (see section 4.4).</p>	
<p>461. 462. 463. 464. 465. 466. 467. 468.</p>	<p>d. Thrombocytopenia</p> <p>Patients with low baseline platelet counts (< 100,000 /μL) have an increased risk of developing thrombocytopenia. Patients with iatrogenic immunosuppression due to treatment with immunosuppressive drugs are at greater risk of thrombocytopenia than patients with AIDS (see section 4.4). Severe thrombocytopenia may be associated with potentially life-threatening bleeding.</p>	
<p>469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481.</p>	<p>Influence of treatment duration or indication on adverse reactions</p> <p>Severe neutropenia (ANC <500/μL) is seen more frequently in CMV retinitis patients (14%) undergoing treatment with valganciclovir, intravenous or oral ganciclovir than in solid organ transplant patients receiving valganciclovir or oral ganciclovir. In patients receiving valganciclovir or oral ganciclovir until Day 100 post-transplant, the incidence of severe neutropenia was 5% and 3% respectively, whilst in patients receiving valganciclovir until Day 200 post-transplant the incidence of severe neutropenia was 10%.</p> <p>There was a greater increase in serum creatinine seen in solid organ transplant patients treated until Day 100 or Day 200 post-transplant with both valganciclovir and oral ganciclovir when compared to CMV</p>	

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482.	retinitis patients. However, impaired renal function is a feature common	
483.	in solid organ transplantation patients.	
484.	The overall safety profile of ROLIXIRD 450 MG did not change with the	
485.	extension of prophylaxis up to 200 days in high risk kidney transplant	
486.	patients. Leukopenia was reported with a slightly higher incidence in	
487.	the 200 days arm while the incidence of neutropenia, anaemia and	
488.	thrombocytopenia were similar in both arms.	
489.		
491.	e. Other special population	
492.	Elderly patients	
493.	Safety and efficacy have not been established.	
494.		
495.	f. Reporting of suspected adverse reactions	
496.	Reporting suspected adverse reactions after authorisation of the	
497.	medicinal product is important. It allows continued monitoring of the	
498.	benefit/risk balance of the medicinal product. Healthcare professionals	
499.	are asked to report any suspected adverse reactions to SAHPRA via	
500.	The '6.04 Adverse Drug Reactions Reporting Form'. Found under	
501.	SAHPRA's publications:	
502.	https://www.sahpra.org.za/Publications/Index/8	
503.		
504.	4.9. Overdose	
505.	It is expected that an overdose of ROLIXIRD 450 MG , could also	
506.	possibly result in increased renal toxicity.	
507.		
508.	Treatment	As requested
509.		by SAHPRA

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510.	Haemodialysis and hydration may be of benefit in reducing blood	
512.	plasma levels in patients who receive an overdose of ROLIXIRD 450	
513.	MG.	
514.	Overdose experience with IV ganciclovir:	
515.	The majority of patients experienced one or more of the following	
516.	adverse events:	
517.	Haematological toxicity: pancytopenia, bone marrow depression,	
518.	medullary aplasia, leucopenia, neutropenia, granulocytopenia.	
519.	Hepatotoxicity: hepatitis, liver function disorder.	
520.	Renal toxicity: worsening of haematuria in a patient with pre-existing	
521.	renal impairment, acute renal failure, and elevated creatinine.	
523.	Gastrointestinal toxicity: abdominal pain, diarrhoea, vomiting.	
524.	Neurotoxicity: generalised tremor, convulsion.	
525.	5. PHARMACOLOGICAL PROPERTIES	
526.	5.1. Pharmacodynamic properties	
527.	A 20.2.8 Antiviral agents	
528.	Pharmacotherapeutic group: antivirals for systemic use, nucleosides	As requested by SAHPRA
529.	and nucleotides excl. reverse transcriptase inhibitor.	
530.		
531.	Mechanism of Action:	
532.	Valganciclovir is an L-valyl ester (prodrug) of ganciclovir. After oral	As requested by SAHPRA
533.	administration, valganciclovir is rapidly and extensively metabolised to	
534.	ganciclovir by intestinal and hepatic esterases. Ganciclovir is a	
535.	synthetic analogue of 2'-deoxyguanosine and inhibits replication of	
536.	herpes viruses <i>in vitro</i> and <i>in vivo</i> . Sensitive human viruses include	
537.	human cytomegalovirus (HCMV), herpes simplex virus-1 and -2 (HSV-	
538.	1 and HSV-2), human herpes virus -6, -7 and -8 (HHV-6, HHV-7,	

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539.	HHV8), Epstein-Barr virus (EBV), varicella-zoster virus (VZV) and	
540.	hepatitis B virus (HBV).	
541.	In CMV-infected cells, ganciclovir is initially phosphorylated to	
542.	ganciclovir monophosphate by the viral protein kinase, pUL97. Further	
543.	phosphorylation occurs by cellular kinases to produce ganciclovir	
544.	triphosphate, which is then slowly metabolised intracellularly.	
545.	Triphosphate metabolism has been shown to occur in HSV- and	
546.	HCMV- infected cells with half-lives of 18 and between 6 and 24 hours	
547.	respectively, after the removal of extracellular ganciclovir. As the	
548.	phosphorylation is largely dependent on the viral kinase,	
549.	phosphorylation of ganciclovir occurs preferentially in virus-infected	
550.	cells.	
551.	The virus static activity of ganciclovir is due to inhibition of viral DNA	
552.	synthesis by: (a) competitive inhibition of incorporation of	
553.	deoxyguanosine-triphosphate into DNA by viral DNA polymerase, and	
554.	(b) incorporation of ganciclovir triphosphate into viral DNA causing	
555.	termination of, or very limited, further viral DNA elongation.	
556.	Antiviral activity	
557.	The <i>in-vitro</i> anti-viral activity, measured as IC ₅₀ of ganciclovir against	
558.	CMV, is in the range of 0.08 µM (0.02 µg/mL) to 14 µM (3.5 µg/mL).	
559.		
560.		
561.	5.2. Pharmacokinetic properties	
562.	Absorption	
563.	Valganciclovir is a prodrug of ganciclovir. It is well absorbed from the	
564.	gastrointestinal tract and rapidly and extensively metabolised in the	
565.	intestinal wall and liver to ganciclovir. The absolute bioavailability of	

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566.	ganciclovir from valganciclovir is approximately 60 %. Systemic																				
567.	exposure to valganciclovir is transient and low. Valganciclovir allows																				
568.	systemic exposure of ganciclovir similar to that achieved with																				
569.	recommended doses of IV ganciclovir.																				
570.	AUC ₂₄ and C _{max} values for valganciclovir are approximately 1 % and 3																				
571.	% of those of ganciclovir, respectively. For comparison, the																				
572.	bioavailability of ganciclovir after administration of 1 000 mg oral																				
578.	ganciclovir (as capsules) is 6 - 8 %.																				
579.	Valganciclovir in HIV+, CMV+ patients:																				
580.	Systemic exposure of HIV+, CMV+ patients after twice daily																				
581.	administration of ganciclovir and valganciclovir for one week is:																				
592.	<table border="1"> <thead> <tr> <th rowspan="2">Parameter</th> <th rowspan="2">Ganciclovir (5 mg/kg, i.v.) n = 18</th> <th colspan="2">Valganciclovir (900 mg, once daily) n = 25</th> </tr> <tr> <th>Ganciclovir</th> <th>Valganciclovir</th> </tr> </thead> <tbody> <tr> <td>AUC (0-12</td> <td>28,6 ± 9,0</td> <td>32,8 ± 10,1</td> <td>0,37 ± 0,22</td> </tr> <tr> <td>h) (µg·h/ml)</td> <td>10,4 ± 4,9</td> <td>6,7 ± 2,1</td> <td>0,18 ± 0,06</td> </tr> <tr> <td>C_{max} (µg/ml)</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Parameter	Ganciclovir (5 mg/kg, i.v.) n = 18	Valganciclovir (900 mg, once daily) n = 25		Ganciclovir	Valganciclovir	AUC (0-12	28,6 ± 9,0	32,8 ± 10,1	0,37 ± 0,22	h) (µg·h/ml)	10,4 ± 4,9	6,7 ± 2,1	0,18 ± 0,06	C _{max} (µg/ml)			
Parameter	Ganciclovir (5 mg/kg, i.v.) n = 18	Valganciclovir (900 mg, once daily) n = 25																			
		Ganciclovir	Valganciclovir																		
AUC (0-12	28,6 ± 9,0	32,8 ± 10,1	0,37 ± 0,22																		
h) (µg·h/ml)	10,4 ± 4,9	6,7 ± 2,1	0,18 ± 0,06																		
C _{max} (µg/ml)																					
593.																					
594.																					
595.																					
596.																					
597.																					
598.																					
599.	The efficacy of ganciclovir in increasing the time-to-progression of																				
600.	CMV retinitis has been shown to correlate with systemic exposure																				
601.	(AUC).																				
602.	Valganciclovir in solid organ transplant patients:																				
603.	Steady state systemic exposure of solid organ transplant patients to																				
604.	ganciclovir after daily oral administration of ganciclovir and																				
605.	valganciclovir is:																				
606.																					
607.																					

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608. 609. 610.	Parameter	Ganciclovir (1 000 mg three times daily) n = 82	Valganciclovir (900 mg, once daily) n = 161 Ganciclovir
611.	AUC (0-24 h)	28,0 ± 10,9	46,3 ± 15,2
612.	(µg·h/mL) C _{max}	1,4 ± 0,5	5,3 ± 1,5
613.	(µg/mL)		
614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625.	<p>The systemic exposure of ganciclovir to heart, kidney and liver transplant recipients was similar after oral administration of valganciclovir according to the renal function dosing algorithm. Following the administration of valganciclovir as an oral solution, equivalent systemic ganciclovir exposures were obtained compared to the tablet formulation.</p> <p>Food: When valganciclovir was given with food at the recommended dose of 900 mg, increases were seen in both mean ganciclovir AUC₂₄ (± 30 %) and mean ganciclovir C_{max} values (± 14 %). It is recommended that valganciclovir be administered with food.</p>		
626. 627. 628. 629. 630.	<p>Distribution</p> <p>Plasma protein binding of ganciclovir was 1 - 2 % over concentrations of 0,5 and 51 µg/mL. The steady state volume of distribution of ganciclovir after IV administration was 0,680 ± 0,161 l/kg.</p>		
631. 632. 633. 634.	<p>Biotransformation</p> <p>Valganciclovir is rapidly and extensively metabolised to ganciclovir, no other metabolites have been detected. No metabolite of orally administered radiolabelled ganciclovir (1 000 mg single dose)</p>		

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635.	accounted for more than 1 - 2 % of the radioactivity recovered in the	
636.	faeces and urine.	
637.		
638.	Elimination	
639.	The major route of elimination of valganciclovir as ganciclovir is renal	
640.	excretion, by glomerular filtration and active tubular secretion. Renal	
641.	clearance accounts for 81,5 % ± 22 % of the systemic clearance of	
642.	valganciclovir. The half-life of ganciclovir from valganciclovir is 4,1 ±	
643.	0,9 hours in HIV- and CMV-seropositive patients.	
644.		
645.	Special Populations	As requested
646.	Patients with renal impairment	by SAHPRA
647.	Decreasing renal function resulted in decreased clearance of	
648.	ganciclovir from valganciclovir with an increase in terminal half-life.	
649.	Therefore, dosage adjustment is required for renally impaired patients.	
650.	(See section 4.2).	
651.		
652.	Haemodialysis: For patients receiving haemodialysis (CrCl < 10	As requested
653.	mL/min); it is recommended that IV ganciclovir is used. The individual	by SAHPRA
654.	dose of ROLIXIRD 450 MG required for these patients is less than the	
655.	450 mg tablet strength. Approximately half of the ganciclovir present	
656.	at the start of dialysis is removed during dialysis. The mean intra-	
657.	dialysis half-life and mean interdialysis half-life is estimated to be 3,47	
658.	h and 51,0 h respectively. However, for patients receiving	
659.	haemodialysis (CrCl < 10 mL/min) 50 mg/mL powder for oral solution	
660.	is recommended to provide an individualised dose. (See section 4.2).	
661.		

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662.		
663.	Patients with hepatic impairment	
664.	The pharmacokinetics of valganciclovir in stable liver transplant	
665.	recipients were investigated in one open-label 4-crossover study. The	
666.	absolute bioavailability of ganciclovir from valganciclovir, following a	
667.	single dose of 900 mg valganciclovir under fed conditions was	
668.	approximately 60 %, in agreement with estimates obtained in other	
669.	patient populations. Ganciclovir AUC _{0-24h} was comparable to that	
670.	achieved by 5 mg/kg IV ganciclovir in liver transplant recipients.	
671.		
672.	5.3 Preclinical safety data	
673.	Not applicable	
674.		
675.	Environmental Risk Assessment	
676.	ROLIXIRD 450 MG is a well-established active ingredient used in	
677.	pharmaceutical preparations for human use. Given the anticipated	
678.	pattern of use and disposal of the product, the environmental exposure	
679.	of the active substance and metabolites are expected to be very	
680.	limited. The use of ROLIXIRD 450 MG Tablets 450 mg is not	
681.	considered warranting any environmental concerns or requiring any	
682.	special product labelling.	
683.		
684.	6. PHARMACEUTICAL PARTICULARS	
685.	6.1. List of excipients	
686.	Cellulose Microcrystalline (Avicel PH 101),	
687.	Crospovidone (Type B) (Polyplasdone XL - 10),	
688.	Povidone (Kollidone 30),	

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689.	Cellulose Microcrystalline (Avicel PH 102),	
690.	Magnesium stearate (Ligamed MF-2-V),	
691.	Opadry pink YS-1-14519A (contains HPMC 2910/Hypromellose 3cP,	
692.	HPMC 2910/Hypromellose 6cP, Titanium Dioxide, Macrogol/PEG 400,	
693.	Iron oxide red, Polysorbate 80, Purified water).	
694.		
695.	6.2. Incompatibilities	
696.	Not applicable	
697.		
698.	6.3. Shelf life	
699.	Proposed shelf life: 36 months	
700.		
701.	6.4. Special precautions for storage	
702.	Store at or below 25 °C.	
703.	Keep in original packaging until required for use.	
704.	KEEP OUT OF REACH OF CHILDREN.	
705.		
706.	6.5. Nature and contents of container	
707.	Blister strips:	
708.	60 tablets are packed in a Blister strips of 25 µ Polyamide/ 45 µ	
709.	Aluminium foil/ 60 µ PVC film.	
710.	Pack sizes: 10 film coated tablets per blister. One box contains 10 x 6	
711.	blisters.	
712.	HDPE bottles:	
713.	60 tablets are packed in white opaque round HDPE container closed	
714.	with a white opaque polypropylene continuous thread closures with	
715.	wad having induction sealing liner.	

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716.	Pack sizes: 60's - One HDPE container contains 60 tablets.	
717.	HDPE bottle and blister packs are enclosed in an outer carton box.	
718.		
719.	6.6. Special precautions for disposal of a used medicine or	
720.	waste materials derived from such medicine and other	
721.	handling of the product	
722.	No special requirements.	
723.		
724.	7. NAME AND BUSINESS ADDRESS OF THE HOLDER OF THE	
725.	CERTIFICATE OF REGISTRATION	
726.	AUROGEN SA (Pty) Ltd	
727.	Woodhill Office Park, Building 1, First Floor	
728.	53 Phillip Engelbrecht Avenue	
729.	Meyersdal, Ext. 12, 1448	
730.	Johannesburg	
731.	South Africa	
732.		
733.	8. REGISTRATION NUMBER	
734.	49/20.2.8/0106	
735.	9. DATE OF FIRST AUTHORISATION	
736.	06 APRIL 2021	
737.	10. DATE OF REVISION OF TEXT	
738.		

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REFERENCES

Ref. no.	Reference name	Pages
Ref 1	South African Innovator, Valcyte 450 mg. Roche Products (Pty) Ltd., 24 Frickerweg Road, Illovo, Gauteng, South Africa. Dated: 23 November 2017	p.2 – 23
Ref 2	Summary of Product Characteristics, Valganciclovir Aurobindo 450 mg Film-Coated Tablets, Aurobindo Pharma (Portugal), Unipessoal, Lda. Av. do Forte, no 3 - Parque Suecia, Edificio. IV, 2º, 2794-038 Carnaxide.	p.24– 44
Ref 3	Goodman & Gilman's The Pharmacological Basis of Therapeutics, 12 th Edition	p.45 –46
Ref 4	Martindale: The Complete Drug Reference, 38 th Edition	p.47– 48
Ref 5	Annex to the European commission guideline on 'Excipients in the labelling and package leaflet of medicinal products for human use'	p.49– 69