

# ROZLYTREK® 100 mg, 200mg, Hartkapseln Zul.-Nr. 67'280

Public Risk Management Plan (RMP) Summary

Document Version 1.0

Document Date: 10.12.2020 Based on: EU-RMP Vers. 2.0



The Risk Management Plan (RMP) is a comprehensive document submitted as part of the application dossier for market approval of a medicine. The RMP summary contains information on the medicine's safety profile and explains the measures that are taken in order to further investigate and follow the risks as well as to prevent or minimise them.

The RMP summary of "Rozlytrek" is a concise document and does not claim to be exhaustive. As the RMP is an international document, the summary might differ from the "Arzneimittelinformation / Information sur le médicament" approved and published in Switzerland, e.g. by mentioning risks occurring in populations or indications not included in the Swiss authorization.

Please note that the reference document which is valid and relevant for the effective and safe use of "Rozlytrek" in Switzerland is the "Arzneimittelinformation/ Information sur le médicament" (see www.swissmedic.ch) approved and authorized by Swissmedic. "Roche Pharma (Schweiz) AG" is fully responsible for the accuracy and correctness of the content of the published summary RMP of Rozlytrek.



#### PART VI: SUMMARY OF THE RISK-MANAGEMENT PLAN

#### SUMMARY OF RISK MANAGEMENT PLAN FOR ROZLYTREK® (ENTRECTINIB)

This is a summary of the risk-management plan (RMP) for Rozlytrek. The RMP details important risks of Rozlytrek, how these risks can be minimized, and how more information will be obtained about Rozlytrek risks and uncertainties (missing information).

Rozlytrek summary of product characteristics (SmPC) and its package leaflet give essential information to healthcare professionals and patients on how Rozlytrek should be used.

This summary of the RMP for Rozlytrek should be read in the context of all this information, including the assessment report of the evaluation and its plain-language summary, all which is part of the European Public Assessment Report (EPAR).

Important new concerns or changes to the current ones will be included in updates of Rozlytrek RMP.

#### I. THE MEDICINE AND WHAT IT IS USED FOR

Rozlytrek is authorized for the treatment of neurotrophic tyrosine receptor kinase (NTRK) fusion-positive locally advanced or metastatic solid tumors and ROS1-positive, advanced non-small cell lung cancer (NSCLC) (see SmPC for the full indication). It contains entrectinib as the active substance, and it is given by oral administration.

Further information about the evaluation of Rozlytrek benefits can be found in Rozlytrek EPAR, including in its plain-language summary, available on the EMA Web site, under the medicine's Web page.

# II. RISKS ASSOCIATED WITH THE MEDICINE AND ACTIVITIES TO MINIMIZE OR FURTHER CHARACTERIZE THE RISKS

Important risks of Rozlytrek, together with measures to minimize such risks and the proposed studies for learning more about Rozlytrek risks, are outlined below.

Measures to minimize the risks identified for medicinal products can be:

- Specific Information, such as warnings, precautions, and advice on correct use,in the package leaflet and SmPC addressed to patients and healthcare professionals
- Important advice on the medicine's packaging
- The authorized pack size: the amount of medicine in a pack is chosen so as to ensure that the medicine is used correctly.



• The medicine's legal status: the way a medicine is supplied to the patient (e.g., with or without prescription) can help to minimize its risks.

Together, these measures constitute routine risk minimization measures.

In addition to these measures, information about adverse events is collected continuously and regularly analyzed, including PSUR assessment, so that immediateaction can be taken as necessary. These measures constitute *routine pharmacovigilance activities*.

If important information that may affect the safe use of Rozlytrek is not yet available, it is listed under "missing Information" below.

#### II.A LIST OF IMPORTANT RISKS AND MISSING INFORMATION

Important risks of Rozlytrek are risks that need special risk-management activities to further investigate or minimize the risk, so that the medicinal product can be safely taken. Important risks can be regarded as identified or potential. Identified risks are concerns for which there is sufficient proof of a link with the use of Rozlytrek. Potential risks are concerns for which an association with the use of this medicine is possible based on available data, but this association has not been established yet and needs further evaluation. Missing information refers to information about the safety of the medicinal product that is currently missing and needs to be collected (e.g., on the long-term use of the medicine).

List of Important Risks and Missing Information		
Important identified risks	Congestive Heart Failure	
	QT Prolongation	
	• Fractures	
Important potential risks	Severe neurologic reactions	
	<ul> <li>Neuro-developmental impairment in paediatric patients</li> </ul>	
Missing information	Use in Patients with Hepatic Impairment	
	Safety in long term use	



## II.B SUMMARY OF IMPORTANT RISKS

Important Identified Risk: Fractures		
Evidence for linking the risk to	Evidence is based on the safety data from two Phase I/Ib studies	
the medicine	(GO40783 [ALKA], GO40784 [STARTRK-1]) one Phase I/II CO40778	
	[STARTRK-NG]) and one Phase II study (GO40782 [STARTRK-2]) of	
	entrectinib, in adults, adolescents, and children (504 patients) with,	
	ROS1, NTRK1/2/3 or ALK alterations or fusions who received at least	
	one dose of entrectinib	
Risk factors and risk groups	In adult patients, the most common cause of fractures appears to be by	
	accidental injury. It is known that entrectinib may cause dizziness and	
	ataxia in patients, though this seemed to be a factor in few of the falls	
	leading to the fractures.	
Risk-minimization measures	Routine risk-minimization measures:	
	SmPC Section 4.4 (Fractures) and section 4.8 of the SmPC provide	
	recommendations on risk management approach	
	Additional risk-minimization measures:	
	None	
Additional pharmacovigilance	Risk continues to be further assessed as part of PAESs GO40782	
activities	[STARTRK-2] and CO40778 [STARTRK-NG]	



Important Identified Risk: Congestive Heart Failure		
Evidence for linking the risk to	Evidence is based on the safety data from two Phase I/Ib studies	
the medicine	(GO40783 [ALKA], GO40784 [STARTRK-1]) one Phase I/II	
	(CO40778 [STARTRK-NG]) and one Phase II study (GO40782	
	[STARTRK-2]) of entrectinib, in adults, adolescents, and children (504	
	patients) with, ROS1, NTRK1/2/3 or ALK alterations or fusions who	
	received at least one dose of entrectinib	
Risk factors and risk groups	Risk factors of heart failure include a medical history of coronary artery	
	disease including a previous myocardial infarction, age >65 years,	
	smoking, body mass index >27 kg/m², sedentary life style, abnormality	
	in lipidi profile, hypertension, diabetes, atrial fibrillation, valvular heart	
	disease, alcohol abuse, infection, and cardiomyopathy of an unknown	
	cause	
	In addition, prior cancer treatments including the most commonly	
	used chemotherapy agents (e.g., anthacyclines, cyclophosphamide and	
	radiation therapy) and biologic and targeted therapy drugs, can induce	
	cardiac disorders	
Risk-minimization measures	Routine risk-minimization measures:	
	SmPC Sections 4.2 (Dose modifications) and 4.4 (Congestive heart	
	failure) and section 4.8 (undesirable effects) provide recommendations	
	on risk management approach	
	Additional risk-minimization measures:	
	None	
Additional pharmacovigilance	Risk continues to be further assessed as part of PAESs GO40782	
activities	[STARTRK-2] and CO40778 [STARTRK-NG]	



Important Identified Risk: QT Prolongation		
Evidence for linking the risk to	Evidence is based on the safety data from two Phase I/Ib studies	
the medicine	(GO40783 [ALKA], GO40784 [STARTRK-1]), one Phase I/II study	
	(CO40778 [STARTRK-NG]) and one Phase II study (GO40782	
	[STARTRK-2]) of entrectinib, in adults, adolescents, and children	
	(504patients) with, ROS1, NTRK1/2/3 or ALK alterations or fusions	
	who received at least one dose of entrectinib	
Risk factors and risk groups	QTc prolongation appears to occur more frequently in females.	
	Inherited genetic polymorphisms or mutations with low penetrance,	
	involving the same gene loci associated with phenotypically expressed	
	long-QT syndrome, may underlie individual idiosyncrasies to the	
	acquired form in many, if not most, cases. Some individuals have QT	
	prolongation throughout life without any manifest arrhythmias, while	
	others are highly susceptible to symptomatic arrhythmias, particularly	
	torsades de pointes.	
	Risk factors for QTc prolongation may also include patients with pre-	
	existing conditions such as history of cardiac dysrhythmia, electrolyte	
	disturbances, cardiac ischemia, and the concomitant use of	
	medications with the potential to prolong QTc.	
Risk-minimization measures	Routine risk-minimization measures:	
	SmPC Sections 4.2 (Dose modifications) and 4.4 (QTc prolongation)	
	and section 4.8 (undesirable effects) provide recommendations on risk	
	management approach	
	Additional risk-minimization measures:	
	None	
Additional pharmacovigilance	Risk continues to be further assessed as part of PAESs GO40782	
activities	[STARTRK-2] and CO40778 [STARTRK-NG]	



Important Potential Risk: Severe Neurological Reactions			
Evidence for linking the risk to	Evidence is based on the safety data from two Phase I/Ib studies		
the medicine	(GO40783 [ALKA], GO40784 [STARTRK-1]), one Phase I/II study		
	(CO40778 [STARTRK-NG]) and one Phase II study (GO40782		
	[STARTRK-2]) of entrectinib,, in adults, adolescents, and children		
	(504patients) with, ROS1, NTRK1/2/3 or ALK alterations or fusions		
	who received at least one dose of entrectinib		
Risk factors and risk groups	Patients with metastatic brain tumours can develop substantial		
	cognitive disability, but the extent and type of cognitive dysfunction		
	often varies from patient to patient because of differential tumour		
	volume and location. In the entrectinib clinical trial program, 96.3% of		
	patients had metastatic disease and 22.2% had CNS metastases at		
	baseline per investigator assessment. Chemotherapy-induced cognitive		
	dysfunction is a common side effect and cause of morbidity in cancer		
	patients and the majority (85.2%) of patients receiving entrectinib were		
	previously treated with chemotherapy. Memory, attention,		
	psychomotor function, processing speed, and executive function		
	appear to be commonly affected.		
Risk-minimization measures	Routine risk-minimization measures:		
	SmPC Sections 4.2 (Dose modifications), 4.4 (Cognitive disorders) and		
	4.7 (Effects on ability to drive and use machines), provide		
	recommendations on risk management approach		
	Additional risk-minimization measures:		
	None		
Additional pharmacovigilance	Risk continues to be further assessed as part of PAESs GO40782		
activities	[STARTRK-2] and CO40778 [STARTRK-NG].		



Important Potential Risk: Neuro-developmental impairment in paediatric patients			
Evidence for linking the risk to	Evidence is based on a 13-week juvenile rat toxicology study animals		
the medicine	were dosed daily from post-natal day 7 to day 97 (approximately		
	equivalent to neonate to adulthood in humans). In addition to CNS		
	and skin effects, and decreased RBC parameters, effects on growth and		
	development were observed in the dosing and recovery phases		
	including decreased body weight gain and delayed sexual maturation		
	(at $\geq$ 4 mg/kg/day, approximately 0.1 times the human exposure by		
	AUC at the recommended dose), deficits in neurobehavioral		
	assessments including functional observational battery and learning		
	and memory ( at $\geq$ 8 mg/kg/day, approximately 0.2 times the human		
	exposure by AUC at the recommended dose.		
Risk factors and risk groups	Young children treated with entrectinib for an extended duration up to		
	adult maturity.		
Risk-minimization measures	Routine risk minimization measures:		
	Section 4.2 (Dose modifications), Section 4.4 (Cognitive disorder) and		
	section 5.3 (Juvenile rat toxicology study) of the SmPC provide		
	recommendations on risk management approach.		
	Additional risk minimization measures:		
	None		
Additional pharmacovigilance	Risk continues to be further assessed as part of PAES CO40778		
activities	[STARTRK-NG]		

Missing Information: Use in Patients with Hepatic Impairment		
Risk-minimization measures	Routine risk-minimization measures:	
	None	
	Additional risk-minimization measures:	
	None	
Additional pharmacovigilance	Study GP41174	
activities		



Missing Information: Safety in long term use		
Risk factors and risk groups Patients treated with entrectinib for greater than 12 months.		
Risk-minimization measures	Routine risk minimization measures:	
	None	
	Additional risk minimization measures:	
	None	
Additional pharmacovigilance	Risk continues to be further assessed as part of PAESs GO40782	
activities	[STARTRK-2] and CO40778 [STARTRK-NG].	



## II.C POST-AUTHORIZATION DEVELOPMENT PLAN

# II.C.1 Studies That Are Conditions of the Marketing Authorization

Study	Rationale and objectives	Deadline
Status		
[ANX] MO41552	In order to further characterise the	31 December 2027
Randomized, open label, multicenter, phase	efficacy of entrectinib in patients	
3 study of entrectinib versus crizotinib in	with baseline CNS disease, the MAH	
patients who have non-small cell lung	should conduct and submit the	
cancer (NSCLC) harbouring ROS1 gene	results of a randomised controlled	
rearrangements with and without central	trial versus crizotinib in treatment	
nervous system metastases.	naïve ROS1 NSCLC patients. The	
	primary endpoint will be PFS in the	
Planned	subgroup of patients with CNS	
	metastases at baseline.	

Studies contributing to pooled analysis	Rationale and objectives	Deadline
Status		
[SOB] GO40782 (STARTRK-2)	In order to further confirm the	31 March 2027
An open-label, multicenter, global phase 2	histology-independent efficacy of	
basket study of entrectinib for the treatment	entrectinib in adult and paediatric	
of patients with locally advanced or	patients, the MAH should submit a	
metastatic solid tumours that harbor	pooled analysis for an increased	
NTRK1/2/3, ROS1, or ALK gene	sample size of NTRK fusion-positive	
rearrangements.	patients from the ongoing studies	
	STARTRK 2, STARTRK NG and any	
Ongoing	additional clinical trial conducted	
	according to an agreed protocol.	
[SOB] CO40778 (STARTRK-NG)		
A phase 1/2, open-label, dose escalation and	The MAH should submit the results	
expansion study of entrectinib (RXDX-101)	of an interim safety and efficacy	
in pediatrics and young adults with no	analysis of the NTRK efficacy-	
curative first-line treatment option or	evaluable adult and paediatric	
recurrent/refractory solid tumors and	patients including adolescents that	
primary CNS.	are available as per integrated	
	statistical analysis plan.	
Ongoing		

ALK = Anaplastic lymphoma kinase; NTRK = neurotrophic receptor tyrosine kinase



# II.C.2 Other Studies in Post-Authorization Development Plan

Study	Rationale and objectives	Deadline
Status		
[MEA] GP41174 Pharmacokinetic trial to evaluate the effect of moderate and severe hepatic impairment on the pharmacokinetics and safety of Rozlytrek (entrectinib) compared to subjects with normal hepatic function	Missing information topic 'use in patients with hepatic impairment:  To determine the safety of entrectinib in patients with moderate and severe hepatic impairment, and also the impact of hepatic impairment on the pharmacokinetics of entrectinib in patients with moderate and severe hepatic impairment.	31 December 2022
Ongoing Integrated safety analysis report to assess risk of fracture based on GO40782 [STARTRK-2] and CO40778 [STARTRK-NG] studies (PAESs) Ongoing	Report to characterize the risk of fractures in paediatric patients where the following bone biomarkers will be assessed: Serial assessments of BMD with DXA; bone biomarkers in blood and assessment of potential impairment of bone growth with serial hand/wrist and knee X-rays  Clinical summary of fracture events	Final integrated analysis report for bone biomarkers: 31 March 2025  Interim report will include clinical summary of fracture events: With annual reassessment
	Report to characterize the risk of fractures in adult patients where the following bone biomarkers will be assessed: Serial assessments of bone mineral density (BMD) with dual X-ray absorptiometry (DXA) and bone biomarkers in blood  Clinical summary of fracture events	Final integrated analysis report for bone biomarkers: 31 March 2025  Interim report will include clinical summary of fracture events: With annual reassessment



Integrated safety analysis report to assess cardiac risks based on GO40782 [STARTRK-2] and CO40778 [STARTRK-NG]	Report on congestive heart failure: incidence, severity, clinical outcome and reversibility will be characterized.	Final integrated analysis report for cardiac risks: 30 June 2022
studies (PAESs) Ongoing		Interim report: With annual reassessment