

Erivedge® Pregnancy Prevention Programme: (vismodegib) Information for healthcare professionals prescribing Erivedge

Erivedge is contraindicated in:

- Patients with hypersensitivity to the active substance or to any of the excipients.
- Women who are pregnant or breast-feeding.
- Women of childbearing potential (WCBP) who do not comply with the Erivedge Pregnancy Prevention Programme.
- Coadministration of St. John's wort (*Hypericum perforatum*).

Erivedge may cause embryo-foetal death or severe birth defects when administered to a pregnant woman. Hedgehog pathway inhibitors, such as vismodegib have been demonstrated to be embryotoxic and/or teratogenic in multiple animal species and can cause severe malformations, including craniofacial anomalies, midline defects and limb defects. Erivedge must not be used during pregnancy.

For comprehensive safety information please see accompanying Summary of Product Characteristics (SmPC) and Patient Information Leaflet (PIL).

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1. Introduction

Erivedge is indicated for the treatment of adult patients with:

- symptomatic metastatic basal cell carcinoma
- locally advanced basal cell carcinoma inappropriate for surgery or radiotherapy

The recommended dose is one 150 mg capsule taken once daily.

Please familiarise yourself with the complete Summary of Product Characteristics (SmPC) before prescribing Erivedge. This brochure contains only a summary of some of the most important information about the risks of teratogenicity associated with Erivedge.

The Erivedge Pregnancy Prevention Programme (PPP) is designed to provide information and support to healthcare professionals and patients concerning the safe and appropriate use of Erivedge in regards to teratogenicity.

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1. Introduction

1.1. Prescriber's role in the Erivedge Pregnancy Prevention Programme

As a prescriber, your role is to:

Educate patients about the risks of teratogenicity associated with exposure to Erivedge during pregnancy.

Where appropriate, provide contraceptive counselling to your patients or ensure they receive such counselling by an appropriate specialist.

Ensure all patients complete and sign the Erivedge Verification of Counselling Form.

Ensure that patients who are women of childbearing potential have a negative medically supervised pregnancy test within 7 days prior to initiating treatment, and have monthly medically supervised pregnancy tests during treatment.

Ensure that patients who are women of childbearing potential, prescriptions of Erivedge should be limited to 28 days of treatment. Continuation of treatment requires a new prescription.

Ensure that patients who are of childbearing potential are able to comply with contraceptive measures during Erivedge treatment and for 24 months after their final dose.

Since Erivedge is contained in semen, every male patient must understand the risks to the unborn child and use condoms (with spermicide if available) even if he has had a vasectomy, during sex with female partners whilst on treatment and for 2 months after their final dose, to prevent exposure to Erivedge.

Provide to your patient the brochure "Erivedge Pregnancy Prevention Programme: Important information for men and women taking Erivedge about pregnancy prevention and contraception", which contains information and advice about taking Erivedge, and a "Patient Reminder Card".

Complete the survey for this patient in the HCP web portal www.erivedge-ppp.com.mt

Report immediately any pregnancies to Roche using the "Roche Pregnancy Report Form".

Refer the patient to a specialist obstetrician in the event of pregnancy.

Please refer to the Erivedge Summary of Product Characteristics and Patient Information Leaflet for additional important safety information.

2. IMPORTANT RISK INFORMATION

2.1. Biological mechanisms of teratogenic risk

The Hedgehog (Hh) pathway plays an essential, highly conserved role in regulating cell fate specification, cell proliferation, and cell survival during embryonic development. Expression of the hedgehog pathway component Sonic hedgehog (Shh) has been localised to several embryonic structures, including the notochord, neural tube floorplate, limb buds, and embryos from mice deficient in Shh exhibited severe malformations consistent with defective neural patterning and notochord maintenance, repression of the notochord-derived signal required for development of the axial skeleton, patterning during limb outgrowth, and failure to establish the ventral midline and spinal cord (Chiang *et al.* 1996)¹.

Consistent with those findings, treatment of pregnant rats with vismodegib throughout organogenesis resulted in a 100% incidence of embryolethality at clinically relevant exposures. At subclinical exposures that did not result in embryolethality, vismodegib administration induced a variety of malformations, including missing and/or fused digits, open perineum and craniofacial anomalies, and retardations or variations (including dilated renal pelvis, dilated ureter, and incompletely or unossified sternal elements, centra of vertebrae, or proximal phalanges and claws). Treatment of pregnant mice with other small-molecule inhibitors of the Hh signalling pathway during a portion of organogenesis resulted in embryos with a spectrum of craniofacial and brain defects, including but not limited to cleft lip and palate or holoprosencephaly (Lipinski et al. 2010)².

References

1. Chiang C, et al. Cyclopia and defective axial patterning in mice lacking Sonic Hedgehog gene function. Nature 1996;383:407-413. 2. Lipinski RJ, Song C, Sulik KK, et al. Cleft lip and palate results from Hedgehog signaling antagonism in the mouse: Phenotypic characterization and clinical implications. Birth Defects Res A Clin Mol Teratol 2010;88:232-40.

2.2 Women of childbearing potential (WCBP)

Erivedge is contraindicated in WCBP who do not comply with the Erivedge Pregnancy Prevention Programme.

A WCBP is defined in the Erivedge Pregnancy Prevention Programme as a sexually mature female who:

- has menstruated at any time during the previous 12 consecutive months
- has not undergone a hysterectomy or a bilateral oophorectomy, or who does not have medically-confirmed permanent premature ovarian failure
- does not have a XY genotype, Turner's syndrome, or uterine agenesis
- becomes amenorrhoeic following cancer therapy, including treatment with Erivedge

WCBP should not start taking Erivedge unless:

- they have a negative pregnancy test, conducted by a healthcare professional within 7 days before starting Erivedge treatment
- they agree and are able to comply with the terms of the Erivedge Pregnancy Prevention Programme, and will use recommended contraception during Erivedge treatment and for 24 months after their final dose

2. IMPORTANT RISK INFORMATION

It is important that WCBP are counselled about the importance of recommended contraception, and the avoidance of pregnancy. Unless they commit to not having sexual intercourse (abstinence), they must use 2 recommended forms of birth control at the same time, one of which must be a barrier method.

2.2.1 Recommended methods of contraception

Recommended forms of contraception

Patients must use **2** forms of contraception. Patients must use **1** form of contraception from **each** of the columns below.

Barrier methods		Highly effective forms of contraception
 male condom with spermicide OR diaphragm with spermicide 	AND	 hormonal depot injection OR intrauterine device ("the coil" or IUD) OR tubal sterilisation OR vasectomy

Patients should be individually counselled about which contraception method is most appropriate for them.

If you have any doubt about a patient's childbearing potential, or what contraceptive advice to give her, seek expert advice from an appropriate specialist.

Remind your patients of the importance of recommended contraception, and adherence to the terms of the Erivedge Pregnancy Prevention Programme, during treatment and for 24 months after their final dose.

Monitor your patient's pregnancy status monthly during therapy with a medically supervised pregnancy test conducted by a healthcare professional, even if she is/or becomes amenorrhoeic. Pregnancy tests should be performed within 7 days prior to initiating treatment and monthly during treatment.

Pregnancy tests should have a minimum sensitivity of 25 mIU/mL as per local availability. Patients who present with amenorrhoea during treatment with Erivedge should continue pregnancy testing.

For WCBP, prescriptions of Erivedge should be limited to 28 days of treatment and continuation of treatment requires a new prescription.

2.3. Male patients

Erivedge is transferred and contained in semen. To avoid potential foetal exposure during pregnancy, a male patient must always use a condom (with spermicide, if available), even if he has had a vasectomy, when he has sex with a female partner during Erivedge treatment and for 2 months after his final dose. It is also important that the female partner uses contraception to avoid pregnancy. Men must not donate semen while taking Erivedge and for 2 months after their final dose.

2.4. Pregnancy and Erivedge

If a woman becomes pregnant while taking Erivedge and for 24 months after her final dose, or becomes pregnant while her male sexual partner is taking Erivedge and for 2 months after his final dose:

- you should ask your patient to notify her healthcare professional immediately, stop taking Erivedge, and receive further evaluation and counselling from a specialist obstetrician
- you should report the pregnancy immediately to Roche UK Drug Safety using the "Roche Pregnancy Report Form" (Section 4)

Women who miss a menstrual period or think that they may be pregnant should be directed to talk to their healthcare professional as soon as possible for evaluation and counselling and stop taking Erivedge.

2.5. Healthcare professional (HCP) web portal (www.erivedge-ppp.com.mt)

Complete the survey for all new patients via the HCP web portal. Login: hcpportal Password: erivedge

2.6. Fertility

Dedicated nonclinical studies to assess fertility have not been performed. However, data from animal studies suggest that male and female fertility may be irreversibly compromised by treatment with Erivedge. Additionally, amenorrhoea has been observed in clinical trials in WCBP. Fertility preservation strategies should be discussed with WCBP and male patients prior to starting treatment with Erivedge.

2.7. Additional safety information

Tell all patients that they should:

- not donate blood while taking Erivedge and for 24 months after their final dose
- never give this medicinal product to another person
- keep their medication out of the sight and reach of children
- dispose of any unused capsules at the end of treatment (if applicable, e.g. by returning the capsules to their pharmacist or healthcare professional)

Tell female patients of childbearing potential that, while they are taking Erivedge and for 24 months after their final dose they must:

- not become pregnant
- not have unprotected sex. They should use 2 forms of recommended contraception at the same time
- not breast-feed

Tell male patients that, while they are taking Erivedge and for 2 months after their final dose, they should:

- not have unprotected sex with female partners
- use condoms (with spermicide, if available) even after a vasectomy
- not donate semen

This medicinal product is subject to additional monitoring. 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.

Any suspected adverse reaction should be reported. Report forms can be found at www.medicinesauthority.gov.mt/adrportal and sent by email to postlicensing.medicinesauthority@gov.mt or posted to ADR Reporting, The Medicines Authority Post-licensing Directorate, 203, Level 3, Rue D'Argens, Gzira GZR 1368, MALTA. Adverse events should also be reported to Roche Products Ltd. Please contact Roche Drug Safety Centre by emailing welwyn.uk_dsc@roche.com or calling +44 (0)1707 367554.

3. Healthcare professional reminder card



4. Roche pregnancy report form

RO-GNE: PREGNANCY REPORT FORM

FO

1. RE

FOR ROCHE	USE ONLY			
Roche Received	Date (<i>dd-MMM-yyy</i>	y):	Local No:	MCN:
Report Type:	□ Prospective	□ Retrospective		
REPORTER	NFORMATION			
🗌 Initial	□ Follow-up			
Reporter Name:				
Туре:	D Physician (Spece	ialty):		
	□ Pharmacist	□ Consumer	□ Other (<i>Specify</i>):	
Contact Address	6:			
			Postal/zip Code:	
Telephone Num	ber:		Fax Number:	
E-mail:				
EXPOSED P	ARENT'S DETA	ILS		
Who was expose	ed:	☐ Father	□ Mother	
Initials:		Date of Birth	(dd-MMM-yyyy):	
Height:		inch	□ cm	
Weight:		□ lb	□ kg	
Age at Concepti	on:		Postal Code (France only):	
Ethnic origin:	🗆 Black 🔲 Cauca	sian 🗌 Hispanic	Asian Other (Specify):

2. EX

Who was exposed:	□ Father
Initials:	Date of B
Height:	□ inch
Weight:	🗆 lb
Age at Conception:	
Ethnic origin: 🗌 Black 🔲 Caucasian	🗌 Hispar

3. PRODUCT INFORMATION

after the last dose of Erivedge).

	Product Name (Generic/Trade)	Suspect	Lot/Batch #	Tin (×
			Pre	conception
1.		_		
2.				
3.		_ □		
4.		_ 🗆		
5.		_		



(Enter all relevant medications taken before (up to 24 months for Erivedge® female treated patients), and during pregnancy or if the father exposed enter medications taken prior to conception or up to 2 months

ne of Expos as applicabl		Route	Strength & Formulation (<i>mg</i> , <i>cap</i> , <i>tab</i>)
Trimester 1 2 3	Delivery		



MCN: _

FOR ROCH	E USE ONLY		
Roche Received	Date (<i>dd-MMM-y</i>)	<i>yyy</i>):	Local No:
Report Type:	□ Prospective	□ Retrospective	

Details (include dates & outcome as applicable): _

RO-GNE: PREGNANCY REPORT FORM

3. PRODUCT INFORMATION

Dosage Regimen	Start D (dd-MMM		Stop Date -MMM-yyyy)	Ongoing	Indicatio	on for Use
1				_ 🗆		
2				_ 🗆		
3				_ 🗆		
4				_ 🗆		
5				_		
4. PREGNANCY	INFORMATI	ON				
LMP Date: last me	nstrual period (d	d-MMM-yyyy):		_ 🗆 Est		
Conception Date (dd-MMM-yyyy):			_ 🗆 Est		
Estimated Date of I	Delivery (dd-MM	М-уууу):		_ 🗆 Est		
5. MEDICAL HIS	STORY					
Contraception (m	ay choose more ti	nan one)				
□ None	🗆 IUD	□ Condom		□ Sperm	icide	🗌 Withdrawa
🗌 Diaphragm	□ Rhythm	□ Infertility ((Female)	🗌 Inferti	lity (Male)	🗌 Unknown
□ Surgical steriliz	ation (Male)	□ Surgical st	erilization (1	Female)		
Contraceptive r	medication (Pleas	e specify in Secti	on 3 on page	e 9)		
Number of previo	us					
Pregnai	ncies	Sti	llbirth		_ Spontaneo	ous Abortions
Therapo	eutic Abortions	De	liveries		_ Babies boı	rn with defects
Risk Factors/Med	ical History (*sp	ecify below)				
🗌 Unknown		□ Alcohol		□ Smok	ing	
□ Diabetes*		□ Infection*		🗌 Allerg	gies*	
🗌 Drug abuse		□ Other/relev	vant history			

RO-GNE: PREGNANCY REP	PORT FORM			
FOR ROCHE USE ONLY				
Roche Received Date (dd-MMM-	<i>.yyyy)</i> :L	ocal No: _		MCN:
Report Type:	□ Retrospective			
6. PREGNANCY OUTCOME				
□ Ongoing	□ Ectopic pregnanc	у	□ Spontaneo	ous abortion
Unknown	□ Live birth		🗆 Stillbirth	
\Box Therapeutic abortion	\Box Lost to follow-up			
Provide date if applicable (dd-Mi	ММ-уууу):			
7. RELEVANT LABORATOR (e.g. Amniocentesis, ultrasou		URES F	PRE AND F	POST OUTCOME
Tests	Results (Units and normal values if applicable)	Pending	Pre/Post outcome?	Date (dd-MMM-yyyy)
1			Pre 🗌 Post 🗌 -	
2			Pre 🗌 Post 🗌 -	
3			Pre 🗌 Post 🔲 –	
Further details:				
B. BIRTH OUTCOME				
Infant/Foetal Outcome:				
Number of infants/foetuses: (in the event of more than 1 infan				11 on a separate form)
□ Normal				
□ Abnormal (birth defects/conge	nital abnormalities and o	ther even	ts experienced	by the foetus/baby)
Specify:				
□ Unknown				
□ Death Date (<i>dd-MMM</i>	1-уууу):	Ca	use of death:	
Autopsy results:				





FOR ROCH	E USE ONL	Y				
Roche Receive	d Date (<i>dd-MM</i>	М-уууу):	I	Local No:		MCN:
Report Type:	🗌 Prospecti	ve 🗆 R	Retrospective			
INFANT IN	FORMATIO	N				
Gender:	Weight:		Length:		Head cire	cumference:
🗌 Male	□	lb	□	inch		inch
🗌 Female	□	kg		cm		cm
Gestational ag	e at delivery/abo	ortion (week	cs):			
Apgar scores:	1 minute		5 minutes _		10 minut	es
Were there any	y unusual featur	es about the	e pregnancy or i	ts outcome?		
🗌 Yes	🗆 No					
	🗌 No					
	🗌 No					
	🗌 No					
	🗌 No					
If yes, specify:	🗌 No					
If yes, specify: Follow-up exa	□ No mination of th	e child:				
If yes, specify: Follow-up exa Date (<i>dd-MMi</i>	□ No mination of th <i>M-yyyy</i>):	e child:				
If yes, specify: Follow-up exa Date (<i>dd-MMi</i>	□ No mination of th <i>M-yyyy</i>):	e child:				
If yes, specify: Follow-up exa Date (<i>dd-MMi</i>	□ No mination of th <i>M-yyyy</i>):	e child:				
If yes, specify: Follow-up exa Date (<i>dd-MMi</i> Findings:	□ No	e child:				
If yes, specify: Follow-up exa Date (<i>dd-MMI</i> Findings: Paediatrician (I No Imination of the M-yyyy):	e child: 				
If yes, specify: Follow-up exa Date (<i>dd-MMi</i> Findings: Paediatrician (Address:	I No Imination of the M-yyyy):	e child: 				

FOR ROCHE USE ONLY	(
Roche Received Date (dd-MM)	<i>M-yyyy</i>): Loo	cal No:	MCN:
Report Type:	ve 🗌 Retrospective		
.RELEVANT LABORATO	DRY TESTS/PROCEDU	JRES FOR BAB	Y/FOETUS
Tests	Results (Units and normal values if applicable)	Pending	Date (dd-MMM-yyyy)
1			
2			
3			
4			
 Reporter Signature:	Da	te (dd-MMM-yyyy)	
Reporter Signature: Contact name for further information			
	mation on pregnancy (<i>if diffe</i>	rent from Reporter)	:
Contact name for further infor Contact Address:	mation on pregnancy (<i>if diffe</i>	rrent from Reporter)	:
Contact name for further infor Contact Address:	mation on pregnancy (if diffe	erent from Reporter)	:
Contact name for further infor Contact Address:	mation on pregnancy (if diffe	stal/zip Code:	:
Contact name for further infor Contact Address: Telephone Number:	mation on pregnancy (if diffe	stal/zip Code:	:
Contact name for further infor Contact Address: Telephone Number: E-mail:	mation on pregnancy (<i>if diffe</i> Pos Pos Fax e, ensure the data completed n	stal/zip Code:	:
Contact name for further infor Contact Address: Telephone Number: E-mail: If completed by Roche delegate	mation on pregnancy (<i>if diffe</i>	stal/zip Code:	: 's opinion





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Roche Received Date (<i>dd-MMM-yyyy</i>):	Local No:	MCN:
Report Type: 🗌 Prospective 🗌 Retros	spective	
DITIONAL INFORMATION (Optional	n():	



Marketing authorisation holder: Roche Registration Ltd, 6 Falcon Way, Shire Park, Welwyn Garden City, AL7 1TW, United Kingdom. Erivedge is a registered trademark.

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