

## **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.

## 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.

#### 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

#### References:

Chiang C, et al. Cyclopia and defective axial patterning in mice lacking Sonic Hedgehog gene function. Nature 1996;383:407–413.
 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. 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**

- male condom with spermicide OR
- diaphragm with spermicide

## Highly effective forms of contraception

- 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.

AND

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

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▼ 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, Gżira GŻR 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	cara
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# 4. Roche pregnancy report form

RO-GNE: PRE	GNANCY REP	ORT FORM			
FOR ROCH	IE USE ONLY				
Roche Receive	d Date (dd-MMM-y	ууу):	Local No:		MCN:
Report Type:	☐ Prospective	☐ Retrospective			
. REPORTER	INFORMATIO	N			
☐ Initial	☐ Follow-up				
Reporter Nam	e:				
Type:	☐ Physician (Sp	ecialty):			
	☐ Pharmacist	☐ Consumer	☐ Other (Spe	ecify):	
Contact Addre	ess:				
			Postal/zip Co	de:	
Telephone Nu	mber:		Fax Number:		
E-mail:					
. EXPOSED	PARENT'S DET	AILS			
Who was expo	osed:	☐ Father			
Initials:		Date of Birtl	n (dd-MMM-yy	уу):	
Height:		inch	□ cm		
Weight:		lb	□ kg		
Age at Concep	tion:		Postal Code (	France only):	:
Ethnic origin:	☐ Black ☐ Cau	casian   Hispanic	☐ Asian ☐	Other (Speci	fy):
s. PRODUCT	INFORMATION	N .			
during pregna		_		•	treated patients), and tion or up to 2 months
Product Na (Generic/Tra	-		of Exposure applicable)	Route	Strength & Formulation (mg, cap, tab)
		Preconception Tr	imester Delivery		
1					_
2					
3					
4	□				
5.	П				



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FOR ROCHE USE ONLY				
Roche Received Date (dd-MMM-)	<i>ryyy</i> ):Lo	cal No:	MC	N:
Report Type:   Prospective	☐ Retrospective			
. PRODUCT INFORMATIO	N			
Dosage Regimen Start I	_	e Ongoing	Indication	on for Use
1,				
2				
3				
4				
5				
. PREGNANCY INFORMAT	ION			
LMP Date: last menstrual period (	dd-MMM-yyyy):			
Conception Date (dd-MMM-yyyy)	):			
Estimated Date of Delivery (dd-MN	ММ-уууу):			
. MEDICAL HISTORY				
Contraception (may choose more	than one)			
□ None □ IUD	☐ Condom	☐ Spern	nicide	☐ Withdraw
☐ Diaphragm ☐ Rhythm	☐ Infertility (Female)	☐ Infert	ility (Male)	☐ Unknown
☐ Surgical sterilization (Male)	☐ Surgical sterilization	on (Female)		
☐ Contraceptive medication (Plea	ase specify in Section 3 on	page 9)		
Number of previous				
Pregnancies	Stillbirth		Spontaneo	ous Abortions
Therapeutic Abortions	Deliveries		Babies bor	n with defects
Risk Factors/Medical History (*s	pecify below)			
☐ Unknown	☐ Alcohol	☐ Smok	ing	
☐ Diabetes*	☐ Infection*	☐ Aller	gies*	
☐ Drug abuse	☐ Other/relevant hist	ory		

RO-GNE: PREGNANCY REPO	RT FORM			
FOR ROCHE USE ONLY				
Roche Received Date (dd-MMM-yy)	yy):I	ocal No:		MCN:
Report Type:   Prospective	☐ Retrospective			
6. PREGNANCY OUTCOME				
☐ Ongoing	☐ Ectopic pregnanc	cy	☐ Spontaneo	ous abortion
□ Unknown	$\square$ Live birth		☐ Stillbirth	
☐ Therapeutic abortion	$\square$ Lost to follow-up			
Provide date if applicable (dd-MMN	<i>М-уууу</i> ):			
7. RELEVANT LABORATORY (e.g. Amniocentesis, ultrasound		URES I	PRE AND P	POST OUTCOME
Tests	Results (Units and normal values if applicable)	Pending	Pre/Post outcome?	Date (dd-MMM-yyyy)
1		_ 🗆	Pre	
			Post	
2		_ 🗆	Post	
3		_ 🗆	Pre  Post  -	
Further details:			_	
Turner details.				
8. BIRTH OUTCOME				
Infant/Foetal Outcome:				
Number of infants/foetuses:(in the event of more than 1 infant/fo				
☐ Normal				
☐ Abnormal (birth defects/congenit	al abnormalities and c	ther even	ts experienced	by the foetus/baby)
Specify:				
☐ Unknown				
☐ Death Date (dd-MMM-y	ууу):	C	ause of death:	
Autopsy results:				



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D-GNE: PRE	GNANCY REPORT	FORM			
FOR ROCH	E USE ONLY				
Roche Received	d Date (dd-MMM-yyyy):	I	Local No:		MCN:
Report Type:	☐ Prospective ☐	Retrospective			
INFANT IN	FORMATION				
Gender:	Weight:	Length:		Head circ	umference:
☐ Male	□lb		inch		inch
☐ Female	□kg		cm		cm
Gestational age	at delivery/abortion (we	eeks):			
Apgar scores:	1 minute	5 minutes _		10 minute	es
Were there any	unusual features about t	the pregnancy or i	ts outcome?		
☐ Yes	□ No				
If yes, specify:					
Follow-up exam	mination of the child:				
Date (dd-MMN	Л- <i>уууу</i> ):				
Findings:					
Paediatrician (i	in case of referral); Name	:			
Address:					
				le:	
	nber:		-		
-					
E-maii:					

FOR ROCH	E USE ONLY			
Roche Receive	d Date (dd-MMM-y)	<i>yyy)</i> :Lo	cal No:	MCN:
Report Type:	☐ Prospective	☐ Retrospective		
RELEVAN	LABORATORY	Y TESTS/PROCED	URES FOR BAB	Y/FOETUS
	Tests	Results (Units and normal values if applicable)	Pending	Date (dd-MMM-yyyy)
1				
2				
3				
4				
		ION (continue on op		
	ature:	Da	nte (dd-MMM-yyyy):	
	ature:		nte (dd-MMM-yyyy):	
Contact name	ature:for further informat	Da	nte (dd-MMM-yyyy):	
Contact name	ature: for further informat	Da	nte (dd-MMM-yyyy): erent from Reporter):	
Contact name	ature: for further informat	Date on pregnancy (if diff	nte (dd-MMM-yyyy): erent from Reporter): stal/zip Code:	
Contact name Contact Addre	ature: for further informat	Dation on pregnancy (if diff	nte (dd-MMM-yyyy): erent from Reporter): stal/zip Code:	
Contact name  Contact Addre  Telephone Nu  E-mail:	ature: for further informat	Dation on pregnancy (if different points of the property of th	ate (dd-MMM-yyyy): Ferent from Reporter): Stal/zip Code:  x Number:	
Contact name  Contact Addre  Telephone Nu  E-mail:	ature: for further informat	ion on pregnancy (if diff	ate (dd-MMM-yyyy): Ferent from Reporter): Stal/zip Code:  x Number:	



# RO-GNE: PREGNANCY REPORT FORM OPTIONAL SUPPLEMENTARY INFORMATION FORM FOR ROCHE USE ONLY Roche Received Date (dd-MMM-yyyy): \_\_\_\_\_ Local No: \_\_\_\_ MCN: \_ Report Type: $\Box$ Prospective $\Box$ Retrospective ADDITIONAL INFORMATION (Optional): \_\_\_\_\_ Date (dd-MMM-yyyy): \_\_\_ Signature: \_

