Report ORGOVYX® relugolix

Product &	Authorized indications	Essential therapeutic features	NHS impact
Mechanism of action	Licensing status		
Substance: relugolix	Authorized Indication:	Summary of clinical EFFICACY:	Cost of therapy:
	EMA relugolix is indicated for the	HERO (NCT03085095):is a randomized, multinational, open label, phase III study in adult men with advanced	The US price for 30 tablets of relugolix 120 mg is
Brand Name: Orgovyx	treatment of adult pts with advanced	prostate cancer, requiring at least one year of androgen deprivation therapy. Eligible pts could have one of three	\$2,573.99 [4].
	hormone-sensitive prostate cancer [1].	clinical disease presentations: evidence of biochemical (PSA) or clinical relapse after local primary intervention with	
Originator/licensee:	FDA: relugolix is a GnRH	curative intent, newly diagnosed hormone-sensitive metastatic disease, or advanced localized disease unlikely to be	Epidemiology:
Myovant Sciences	receptorantagonist indicated for the	cured by local primary intervention with curative intent. Pts (n=934) were randomly assigned in a 2:1 ratio to receive	In Italy, prostatic carcinoma is currently the most
Ireland Limited.	treatment of adult pts with	either relugolix (n=622; 120 mg once daily after a single oral loading dose of 360 mg) or leuprolide acetate (n=308;	frequent neoplasm among men and represents more
	advancedprostate cancer [2].	22.5 mg by injection every three months) for 48 weeks.	than 20% of all tumors diagnosed around the 50th
Classification: NCE		The primary endpoint was the sustained castration rate, defined as the cumulative probability of testosterone	year of age. The largest proportion of pts has to be
	Route of administration: OS	suppression to less than 50 ng per deciliter during receipt of trial treatment from day 29 through 48 weeks.	found in the North of the country (1,428 cases per
ATC code: L02BX04		Sustained testosterone suppression was achieved in 96.7% of the pts in the relugolix group (95% CI, 94.9 to	100,000 inhabitants in the Northwest and 1,395 in
	Licensing status	97.9). The leuprolide group had a sustained castration rate of 88.8% (95% CI, 84.6 to 91.8)[3].	the Northeast, respectively) compared to the Center
Orphan Status:	EU CHMP P.O. date: 24/02/2022		(1,015) and the South (588)of Italy[5].
Eu: No	FDA M.A. date: 18/12/2020	Summary of clinical SAFETY:	
Us: No	, ,	The overall incidence of AEs was consistent across treatment groups. Hot flash was the most common AE in both	POSSIBLE PLACE IN THERAPY
	EU Speed Approval Pathway: No	groups (54.3% in the relugolix group vs. 51.6% in the leuprolide group). Diarrhea was reported in a higher	The SoC for advanced hormone-dependent prostate
Mechanism of action:	FDA Speed Approval Pathway: Yes	percentage of pts in the relugolix group (12.2%) than in the leuprolide group (6.8%). All cases of diarrhea were mild	cancer is neo-adjuvant ADT for 4-6 months (±
Relugolix is a hormone		or moderate (grade 1 or grade 2), and no pt was withdrawn because of diarrhea. Fatal events were reported for	neoadjuvant docetaxel), followed by electron beam
antagonist that	ABBREVIATIONS:	1.1% of the pts in the relugolix group and 2.9% of those in the leuprolide group.	radiotherapy + ADT and adjuvant ADT for the
competitively binds to	ADT: Androgen Deprivation Therapy	After 48 weeks of treatment, the incidence of major adverse cardiovascular events (defined as nonfatal myocardial	subsequent two years.
GnRH receptors in the	AEs: Adverse events	infarction, nonfatal stroke, and death from any cause) was 2.9% (exact 95% CI, 1.7 to 4.5) in the relugolix group and	The alternative option includes radical prostectomy +
anterior pituitary gland,	CHMP: Committee for Medicinal Product for	6.2% (exact 95% CI, 3.8 to 9.5) in the leuprolide group[3].	pelvic lymphadenectomy[6].
preventing native GnRH	Human Use		
from binding. This	CI: Confidence Interval	Ongoing studies:	OTHER INDICATIONS IN DEVELOPMENT: Yes
reduces the secretion of	FSH: follicle-stimulating hormone	• For the same indication: Yes.	(Uterine Fibroids, Contraception, Endometriosis) [7].
LH andFSH, causing a	GnRH: Gonadotropin-releasing hormone	For other indications: Yes.	
reduction in the	LH: Luteinizing Hormone	Discontinued studies (for the same indication): No.	SAME INDICATION IN EARLIER LINE(S) OF
production of	MA: Marketing Authorization	Discontinued studies (for the same indication). No.	TREATMENT:No [7].
testosterone from the	PO: Positive Opinion	References:	
testes [1].	PSA: Prostate-specific antigen	https://www.ema.europa.eu/en/medicines/human/summaries-opinion/orgovyx	OTHER DRUGS IN DEVELOPMENT for the SAME
,	Pts: patients	2. https://www.accessdata.fda.gov/drugsatfda docs/label/2020/214621s000lbl.pdf	INDICATION: Yes (Trabectedin, Darolutamide,
	SoC: Standard of Care	3. https://www.nejm.org/doi/10.1056/NEJMoa2004325?url ver=Z39.882003𝔯 id=ori:rid:crossref.org𝔯 dat=cr pub%20%200p	HPN424) [7].
	Vs.: versus	ubmed	
		4. https://www.drugs.com/price-guide/orgovyx	*Service reorganization Y/N: No
		5. https://www.aiom.it/wp-content/uploads/2020/12/2020 LG AIOM Carcinoma Prostata.pdf	*Possible off label use Y/N: Yes
		6. https://www.annalsofoncology.org/article/S0923-7534(20)39898-7/fulltext	, ,
		7. https://clinicaltrials.gov/ct2/home	
		TEMPS / John Control S. S. Carlotte	

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