Report Scemblix® - asciminib hydrochloride

Product &	Authorized indications	Essential therapeutic features							NHS impact
Mechanism of action	Licensing status	Essential therapeutic leatures							itiis iiipact
Substance: asciminib	Authorized Indication:	Summary of clinical EFFICACY:							Cost of therapy:
hydrochloride	EMA: asciminib is indicated for the treatment	(NCT03106779) ASCEMBL is a phase III, multi-center, randomized, open-label study to compare the efficacy of							Price not available yet.
Tiyarocilloride	of adult patients with Ph+ CML-CP previously	(National State) is a priore in, make center, randomized, open rader state, to compare the emission of							· · · · · · · · · · · · · · · · · · ·
2 12 6 15	treated with two or more TKIs [1].	asciminib vs bosutinib in the treatment of adult pts (≥ 18 yrs) with CML-CP previously treated with a minimum of							Epidemiology:
Brand Name: Scemblix		two ATP-binding site TKIs. A total of 233 pts were randomized in a 2:1 ratio and stratified according to MCyR status							Chronic myeloid leukemia
	Route of administration: OS	to receive either asciminib 40mg BID (n=156) or bosutinib 500mg QD (n=76). The primary endpoint was the number							(CML) is the most common
Originator/licensee: Novartis		of pts with MMR* rate at week 24. The MMR rate at week 24 was 25.5% with asciminib and 13.2% with bosutinib.							myeloproliferative disease,
Europharm Limited	Licensing status	The difference in MMR rate between treatment arms, after adjusting for MCyR at baseline, was 12.2% (95%)							representing 15-20% of
	EU CHMP P.O. date: 23/06/2022	confidence interval, 2-sided P=0.029) [3-5].							leukemia cases. The annual
Classification: NCE	EU M.A. date:	*MMR was defined as a \geq 3.0 log reduction in BCR-ABL1 transcripts compared to the standardized baseline equivalent to \leq 0.1% BCR-							incidence was estimated at 1-
	FDA M.A. date: 29/10/2021	ABL1/ABL% by IS as measured by RQ-PCR							1.5 cases per 100,000 people
ATC code: L01EA		Figure 1: Summary of efficacy results in pts with Ph+CML-CP							and the prevalence at
	EU Speed Approval Pathway: No		SCEMBLIX	Bosutinib	Difference	P-value			1/17,000 subjects [7].
Orphan Status:	FDA Speed Approval Pathway: Yes		40 mg BID	500 mg QD	(95% CI)				
Eu: Yes		MMR rate,	N=156	N=76					POSSIBLE PLACE IN THERAPY
Us: Yes	References:	% (95% CI)	25	13	12ª	0.029 ^b			The current pharmacological
Os. res	[1].	At 24 week	(19, 33)	(6.5, 23)	(2.2, 22)				treatment option for third line
Advantage of a street	https://www.ema.europa.eu/en/medicines/human/summarie s-opinion/scemblix	^a Estimated using a common risk difference stratified by baseline major cytogenetic response status.							treatment of CML-CP are:
Mechanism of action:	[2]. https://www.io.nihr.ac.uk/wp-	bEstimated using a Cochrane-Mantel-Haenszel two-sided test stratified by baseline major cytogenetic response status.							Imatinib, Nilotinib, Dasatinib,
asciminib is an antineoplastic	content/uploads/2022/01/23792-Asciminib-for-Chronic- Myeloid-Leukaemia-V1.0-MAY2020-NON-CONF.pdf	3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3							Bosutinib, Ponatinib [2].
agent which is a potent	[3]. https://adisinsight.springer.com/trials/700283706	Summary of clinical SAFETY:							
allosteric inhibitor of the	[4].	The proportion of pts who experienced AEs, TEAEs and AEs leading to treatment discontinuation was lower with							OTHER INDICATIONS IN
tyrosine kinase BCR-ABL1	https://www.accessdata.fda.gov/drugsatfda_docs/label/2021 /215358s000Orig1lbl.pdf	asciminib than with bosutinib. The most common AEs leading to treatment discontinuation included							DEVELOPMENT : Yes
kinase activity [1,2].	[5].	thrombocytopenia (all-grade, 3.2%; grade ≥3, 3.2%) with asciminib and increased ALT (all-grade, 5.3%; grade ≥3,							
	https://ashpublications.org/blood/article/138/21/2031/4766 01/A-phase-3-open-label-randomized-study-of-asciminib	3.9%) with bosutinib.							SAME INDICATION IN EARLIER
	[6]. https://adisinsight.springer.com/drugs/800040192	SAEs included pyrexia, cardiac congestive failure, thrombocytopenia and urinary tract infection. In the asciminib							LINE(S) OF TREATMENT: Yes
ABBREVIATIONS: AE: adverse event	[7]. https://www.orpha.net/consor/cgi- bin/Disease Search.php?lng=IT&data id=3705&Disease Dise	arm, two deaths occurred due to arterial embolism and ischemic stroke (one each) (defined as death occurring							
ALT: alanine aminotransferase	ase Search diseaseGroup=521&Disease Disease Search dis	during treatment of within 30 days after the end of treatment). Two deaths occurred after asciminib discontinuation							OTHER DRUGS IN
BID: twice a day CCF: Cardiac failure congestive	easeType=ORPHA&Disease(s)/group%20of%20diseases=Chro	during survival follow-up (both from civic). In the bosutinib arm, one patient died on treatment from septic shock							DEVELOPMENT for the SAME INDICATION
CHMP: Committee for Medicinal Products	nic-myeloid- leukemia&title=Chronic%20myeloid%20leukemia&search=Dis	[5].							Dasatinib, Ponatinib, Nilotinib,
for Human Use CI: confidence interval	ease Search Simple#:~:text=La%20leucemia%20mieloide%20	Figure 2: Summary of clinical safety All-grade AEs TEAEs AEs leading to treatment Death							Asciminib, Pioglitazone [] [8]
CML: chronic myeloid leukaemia	cronica%20(LMC,la%20prevalenza%20in%201%2F17.000. [8]. https://www.clinicaltrials.gov/		All-grade AES	IEAES	discontinuation		Death		, toommus, rioghtuzene [m] [e]
CP: chronic phase	(o). Access / WWW.commoder.dos.gov/			()					*Service reorganization: No
M.A.: marketing authorization MAT: mesenteric artery thrombosis		Asciminib	140 (90%)	99 (64%)	6%		4 (3%)		*Possible off label use: Yes
MCyR: major cytogenetic response		Bosutinib	73 (96%)	67 (88%)	21%	6	1 (1%)]	
MMR: Major Molecular Response P: p-value									
Ph+: Philadelphia chromosome-positive		Ongoing studies:							
Pts: patients QD: once daily		For the same indication: Yes							
TEAE: Treatment emergent adverse		For other indications: Yes							
events									
TKI: tyrosine kinase inhibitors URTI: upper respiratory tract infections		Discontinued studies (for the same indication): Yes [6]							
UTIs: Urinary tract infection	Discontinued stadies from the same indication). Tes [0]								