## Report AUBAGIO® Teriflunomide

Product & Mechanism	Authorized indications	Essential therapeutic features	NHS impact
of action	Licensing status		
Substance:	Authorized Indication:	Summary of clinical EFFICACY:	Cost of therapy:
teriflunomide	EMA: teriflunomide is	Study TERIKIDS (NCT02201108): a two year, multicentre, randomized, double blind, placebo-controlled, parallel group trial	In Italy, the price for teriflunomide
	indicated for the treatment	to evaluate efficacy, safety, tolerability, and PK of teriflunomide administered orally QD in paediatric pts with relapsing	(28 coated tabs, 14 mg) is 1.530,82 €
Brand Name: Aubagio	of adult and paediatric pts	forms of MS followed by an open label extension. A total of 185 pts aged 10-17 were screened (166 enrolled and	(retail price including VAT) [7].
Brand Name: Adbagio	aged 10 years and older	randomized; 109 received teriflunomide and 57 placebo).	
Out at a set of the second	with RRMS [2].	The study duration included:	Epidemiology:
Originator/licensee:		- a double-blind treatment period of up to 96 weeks (of these, eight weeks were intended to provide individual PK	In Italy, people affected by SM are
Sanofi-Aventis Groupe	Route of administration:	parameters to allow the dose adjustment to the 14 mg adult-equivalent dose for the rest of the study). Pts received	over 110,000 and it is estimated that
	OS	teriflunomide 3.5 mg (BW < 40 kg) or 7 mg (BW ≥ 40 kg) orally QD.	in almost 10% of cases the onset
Classification: NI	Line weign a status	- a 96-week open label extension, i.e., up to a maximum of 192 weeks after randomization.	occurred before reaching 18 years of
	Licensing status EU CHMP P.O. date:	The primary endpoint was the assessment of time to first clinical relapse after randomization, assessed over 96 weeks. The	age. It means that at least 11,000 pts (<18 years) are affected with MS [10].
ATC code:L04AA31	22/04/2021	median time to first clinical relapse was 39.14 weeks (95% C.I.,0.1 to 98.0) for the placebo group and 75.29 weeks (95% C.I., 0.1 to 98.7) for the teriflunomide group. Teriflunomide reduced risk of relapse (-34%); however, the difference was not	(<18 years) are affected with MS [10].
	FDA M.A. date:-	statistically significant vs placebo (P = 0.29) [3-4].	POSSIBLE PLACE IN THERAPY
Orphan Status:	i DA MIA. dute.	3.601311cany 3.61111cant v3 piace30 (1 - 0.23) [3 4].	The current first-line treatment of
Eu: No	EU Speed Approval	Summary of clinical SAFETY:	MS in children consists of either
Us: -	Pathway: No	During the 96 weeks double-blind period, incidence of SAE in teriflunomide and placebo groups were 11.01% and	interferon beta or glatiramer acetate.
	FDA Speed Approval	10.53%,respectively. Incidence of non-serious AE in teriflunomide and placebo groups were 77.98% and 70.18%,respectively.	In children with breakthrough
Mechanism of action:	Pathway:-	In teriflunomide group mainly abdominal pain (11.01%), non-cardiac chest pain (3.57%), pyrexia (5.50%), nasopharyngitis	disease (defined as relapses while on
Teriflunomide is an	ratiiway	(25.59%), URTI (21.10%), paraesthesia (11.01%) and alopecia (21.12%) were reported. No deaths were observed [3-4].	first-line therapies), escalation to
	ABBREVIATIONS:		higher efficacious second-line
immunomodulatory	AE: Adverse Events	Ongoing studies:	therapies, such as natalizumab,
and inflammatory agent	<b>BW:</b> Body Weight	• For the same indication: Yes[5]	fingolimod, mitoxantrone,
that inhibits the	CHMP: Committee for	• For other indications: Yes[6]	cyclophosphamide, rituximab, and
mitochondrial enzyme	Medicinal Products for Human Use	[Phase III, but if it is an O/OE drug, also Phase II]	daclizumab may be considered based
DHO-DH, which	C.I.: Confidence Interval	Discontinued shading (for the course in direction), Ver	on the extrapolated data from adult cohorts [11].
connects with the	DHO-DH: Dihydroorotate	Discontinued studies (for the same indication): Yes	conorts [11].
respiratory chain. As a	Dehydrogenase	References:	OTHER INDICATIONS IN
consequence,	M.A: Marketing Authorization	1. https://www.ema.europa.eu/en/documents/product-information/aubagio-epar-product-information_en.pdf	<b>DEVELOPMENT:</b> HTLV-1 Associated
teriflunomide reduces	MS: Multiple Sclerosis O.S.: Oral Administration	2. <a href="https://www.ema.europa.eu/en/medicines/human/summaries-opinion/aubagio">https://www.ema.europa.eu/en/medicines/human/summaries-opinion/aubagio</a>	Myelopathy/Tropical Spastic
the proliferation of	PK: Pharmacokinetic	3. https://clinicaltrials.gov/ct2/show/results/NCT02201108?term=NCT02201108&draw=2&rank=1	Paraparesis; Celiac Disease [12].
rapidly dividing cells	P.O.: Positive Opinion	<ul> <li>4. <a href="https://adisinsight.springer.com/trials/700245861">https://adisinsight.springer.com/trials/700245861</a></li> <li>5. <a href="https://clinicaltrials.gov/ct2/results?cond=Sclerosis%2C+Multiple&amp;intr=Teriflunomide&amp;Search=Apply&amp;recrs=b&amp;recrs=a&amp;recrs=d&amp;age">https://clinicaltrials.gov/ct2/results?cond=Sclerosis%2C+Multiple&amp;intr=Teriflunomide&amp;Search=Apply&amp;recrs=b&amp;recrs=a&amp;recrs=d&amp;age</a></li> </ul>	
that depend on <i>de novo</i>	pts: patients	v=&gndr=&type=Intr&rslt=	SAME INDICATION IN EARLIER
synthesis of pyrimidine	QD: Once Daily RRMS: Relapsing-Remitting	6. https://clinicaltrials.gov/	LINE(S) OF TREATMENT: -
to expand. The	Multiple Sclerosis	7. <a href="https://gallery.farmadati.it/">https://gallery.farmadati.it/</a>	
mechanism exerted in	SAE: Serious Adverse Events	8. <a href="https://www.drugs.com/price-guide/aubagio">https://www.drugs.com/price-guide/aubagio</a> 9. <a href="https://www.epicentro.iss.it/sclerosi-multipla/epidemiologia">https://www.epicentro.iss.it/sclerosi-multipla/epidemiologia</a>	OTHER DRUGS IN DEVELOPMENT for
	tabs: tablets	9. <a href="https://www.epicentro.iss.it/sclerosi-multipla/epidemiologia">https://www.epicentro.iss.it/sclerosi-multipla/epidemiologia</a> 10. <a href="https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0">https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla pediatrica un problema 0"&gt;https://www.aism.it/la gardenia di aism sostiene la ricerca sulla sclerosi multipla sclerosi multipla sclerosi multipla sclerosi multi</a>	the SAME INDICATION: No [13].
MS seems due to a	URTI: Upper Respiratory Tract	11. https://bmcneurol.biomedcentral.com/articles/10.1186/s12883-018-1026-3	*Convice reorganization V/N: No
reduced number of T-	Infection <b>vs</b> : versus	12. https://www.clinicaltrials.gov/ct2/show/NCT04806737?recrs=abdf&type=Intr&intr=Teriflunomide&phase=012&draw=2&rank=2	*Service reorganization Y/N: No *Possible off label use Y/N: Yes
lymphocytes [1].	va. vciaus	13. <a ct2="" href="https://www.clinicaltrials.gov/ct2/results?cond=Relapsing+Remitting+Multiple+Sclerosis&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;age_v=" https:="" results?cond='Relapsing+Remitting+Multiple+Sclerosis&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;age_v="https://www.clinicaltrials.gov/ct2/results?cond=Relapsing+Remitting+Multiple+Sclerosis&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;age_v="https://www.clinicaltrials.gov/ct2/results?cond=Relapsing+Remitting+Multiple+Sclerosis&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;age_v="https://www.clinicaltrials.gov/ct2/results?cond=Relapsing+Remitting+Multiple+Sclerosis&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;age_v="https://www.clinicaltrials.gov/ct2/results?cond=Relapsing+Remitting+Multiple+Sclerosis&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;age_v="https://www.clinicaltrials.gov/ct2/results?cond=Relapsing+Remitting+Multiple+Sclerosis&amp;recrs=b&amp;recrs=d&amp;age_v="https://www.clinicaltrials.gov/ct2/results?cond=Relapsing+Remitting+Multiple+Sclerosis&amp;recrs=b&amp;recrs=d&amp;age_v="https://www.clinicaltrials.gov/ct2/results.gov/ct&lt;/td' www.clinicaltrials.gov=""><td>rossible official use 1/10. Tes</td></a>	rossible official use 1/10. Tes
		<u>&amp;age=0&amp;gndr=&amp;type=Intr&amp;rslt=&amp;phase=0&amp;phase=1&amp;phase=2&amp;Search=Apply</u>	