Expert Opinion on the Use of Cladribine Tablets in Clinical Practice

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INTRODUCTION

- The evolving treatment landscape in relapsing MS (RMS) requires physicians to have a comprehensive understanding of the different disease modifying drugs (DMDs) in order to offer optimal care.^[1]
- Treatment labels rarely provide specific, detailed information on real-life usage.
- Cladribine tablets (Mavenclad[®]) is a short-course oral DMD for use in MS, that preferentially reduces lymphocytes.^[2, 3]
- In order to address some of the unanswered questions relating to the use of cladribine tablets, here we describe a consensus-based programme led by international MS experts with the aim of providing practical recommendations to support its use in real-life clinical practice.

METHODS

- The consensus programme was based on a multi-step modified Delphi methodology, which took place between April 2018 and April 2019.
- A Steering Committee (SC) of nine international MS experts led the programme. The SC in turn was supported by an extended faculty (EF, n=33) of practicing neurologists caring for MS patients. A total of 19 countries were represented in the programme. The role of the EF was to review available evidence, complete a questionnaire and finally vote on draft recommendations.
- The SC identified practical clinical questions concerning the use of cladribine tablets and prioritised the most important 11 questions to be addressed, categorised into six topics.
- A comprehensive literature review was performed for each question. The level of evidence was assessed and agreed by the SC.^[4]
- A questionnaire was developed by the SC with draft answers based on available evidence from the literature review, combined with their expert opinion, where evidence was lacking. The questionnaire was completed remotely via an on-line platform by the EF.
- The results from the questionnaire were incorporated into draft clinical recommendations, which were then voted on by the SC and EF members.
- Consensus was achieved when ≥75% of respondents agreed in the range of 7–9 (on a 9-point scale).^[5]

RESULTS

- In total, 47 recommendations were drafted by the SC and voted on. Consensus was achieved on 46 of these recommendations.
- The clinical questions and recommendations are provided in Tables 1–6 for the following 6 topics:
- 1. The definition of highly active disease
- 2. The patterns of treatment response in patients treated with cladribine tablets
- 3. Management of patients with evidence of disease activity while being treated with cladribine tablets
- 4. Infection risk and immune function in patients being treated with cladribine tablets

TABLE 4: INFECTION RISK AND IMMUNE FUNCTION IN PATIENTS BEING TREATED WITH CLADRIBINE TABLETS				
Consensus recommendations	Strength [‡]	Level of consens		
25a. How are patients with severe lymphopenia on cladribine tablets managed? (Level of evidence: moderate/lo				

TABLE 6. TREATMENT SWITCHING TO AND FROM CLADRIBINE TABLETS AND MONITORING CONSIDERATIONS				
Consensus recommendations	Strength [‡]	Le co		

Q10. When switching to cladribine tablets, what are the washout periods / baseline requirements for different DMDs? Are there any specific treatment classes that preclude cladribine tablets as a next switch?* (Level of evidence: very low)



96.9%

84.4%

75.0%

83.9%

81.3%



/el of

nsensus

- 5. Management of pregnancy planning and malignancy risk in patients being treated with cladribine tablets
- 6. Treatment switching to and from cladribine tablets and monitoring considerations

Consensus recommendations	Strength [‡]	Level of consensus ¹	against I
Q1a. What patient baseline characteristics and activity metrics indicate highly active dis If patients are <u>treatment naïve</u>? 	sease: /el of evidenc	e: moderate)	Initiation should b
 Clinicians should consider the following activity metrics that may indicate highly active disease in a treatment naïve patient: 1 prior clinical relapse in the last year AND evidence of subclinical MRI activity (Gd+ or new or enlarging T2 lesions) in a patient with poor prognostic factors (clinical, MRI or biomarker) OR 2 or more clinical relapses in the last year, with or without MRI activity 	8	88.2%	Initiation in a patie patient a
Q1b. What patient activity metrics indicate highly active disease and suitability for high treatment or escalation therapy: • If patients have had an appropriate course of <u>a DMD</u> ? • Clinicians should consider the following activity metrics that may indicate highly	efficacy /el of evidenc	e: moderate)	Anti-vira
 Active disease, and suitability for high efficacy treatment or escalation therapy, in a patient who has had an appropriate course of another DMD:* 1 prior clinical relapse in the last year with subclinical MRI activity (Gd+ or new or enlarging T2 lesions) OR 2 prior clinical relapses in the last year without MRI activity 	8	88.2%	Vaccinat herpes z previous
 OR ≥1 Gd+ lesions or ≥ 2 new or enlarging T2 lesions in the last 12 months 			[*] Grade 3 ly in older pat
A new baseline MRI scan should be taken into consideration. The timing of the re-baseline scan may vary dependin	g on the treatme	nt.	The history

[‡]Strength of recommendation = median score on a 1–9 scale; [¶]percentage of votes with 7–9 on a 9-point scale

ABLE 2: PATTERNS OF TREATMENT RESPONSE IN PATIENTS TREATED **WITH CLADRIBINE TABLETS**

Consensus recommendations	Strength [‡]	Level of consensus ^୩		
Q2a. What are the patterns of treatment response with cladribine tablets?	f treatment response with cladribine tablets? (Level of evidenc			
A complete or durable treatment responder to cladribine tablets is a patient with no evidence of significant clinical or radiological activity after completion of the full recommended cumulative dose.*	8	93.9%		
In the absence of new disease activity in Year 3, 4, or beyond, a patient is not a candidate for treatment switch to another DMD.	9	97.0%		
 *A new baseline MRI scan should be taken into consideration. Refer to Question 1b for the threshold of clinical or radiological activity in a patient following an appropriate course 	<u>.</u>			

patient's risk.

A patient with grade 3 or 4 lymphopenia should be actively monitored for signs and symptoms particularly suggestive of herpes zoster. A patient should also be informed about the signs and symptoms of herpes zoster. If such signs and symptoms occur, anti-viral treatment should be initiated immediately.

A patient with grade 3 or 4 lymphopenia on cladribine tablets may be at an increased risk of infection and should be actively monitored for signs and symptoms of infections.

Clinicians should consider appropriate prophylactic treatment based on the individual

atients with severe lymphopenia on cladribine tablets need anti-viral prophylaxis rpes zoster? Which anti-herpes therapy should be used prophylactically? (Level of evidence: low)

f anti-viral prophylaxis with a licenced anti-viral drug recommended in a patient with grade 4 lymphopenia. f anti-viral prophylaxis with a licenced anti-viral drug may be considered with grade 3 lymphopenia. Special consideration should be given to any 8 risk of herpes zoster infection such as elderly patients.*

prophylaxis should be maintained until severity of lymphopenia is reduced.

n with Shingrix may be considered for any patient at increased risk of ster infection (for example those with positive serum titres, age \geq 50, nerpetic exacerbations).

hopenia was more common in Year 2 of the CLARITY study, and duration of lymphopenia was longer. Zoster infection is more common

the patient should be taken into consideration including the patient age, prior duration of lymphopenia and previous infection with

Refer to Questions 6 and 7 for recommendations on vaccinations

Q6. What vaccinations are recommended as part of the de-risking strategy before patients are initiated with cladribine tablets? (Level of evidence: very low)

Clinicians should review a patient's vaccination status before initiation with cladribine tablets and consult their local vaccination guidelines.	9	93.8%
Vaccination for varicella zoster virus is recommended in any antibody-negative patient prior to initiation of cladribine therapy.	9	96.9%
Q7. How do you manage vaccinations after treatment with cladribine tablets; inactivated component vaccines vs. live attenuated vaccines?	(Level of ev	vidence: low)
Cladribine tablets should not be initiated within 4 to 6 weeks after vaccination with live or attenuated live vaccines.	9	100%



• Any treatment effects on the **immune system** (e.g. cytopenia) should have **subsided**

of a DMD that indicates a suboptimal responder		Any use of live attenuated vaccines should be avoided during treatment with			Recommended safety interval: normally around 6–12 months	
Q2b. What are the patterns of suboptimal response with cladribine tablets?	(Level of evidence: low)	cladribine tablets. Users should wait for the leukocytes / lymphocytes to return to normal wherever possible.	9	96.8%	Q11. How do you switch from cladribine tablets? What DMDs can patients use after cladribine tablets lift the patient's lymphocyte counts have not recovered to LLN but a treatment switch is required	olets?
A patient with worsening or unchanged disease activity during the first two years of treatment with cladribine tablets, should be considered as a putative non- or suboptimal responder and is a candidate for treatment with a high efficacy DMD.	8 84.8%	If an inactivated component vaccination is essential for a patient, clinicians should wait for the lymphocyte levels to return to within the normal range.	8	77.4%	what is the recommended course of action? (Level of evid Potential additive effects on the immune system should be considered when choosing subsequent DMDs following treatment with cladribing tablets 9	dence: very low) 93.5%
 Refer to Question 1b for the threshold of clinical or radiological activity in a patient following an appropriate cou suboptimal responder Refer to Question 10 for 'How to switch from cladribine tablets' Strength of recommendation = median score on a 1–9 scale; ¹percentage of votes with 7–9 on a 9-point scale 	rse of a DMD that indicates a	For certain multi-dose vaccinations, clinicians may consider giving the first dose of the vaccine 4–6 weeks before treatment initiation with cladribine tablets. Subsequent vaccine dose(s) should be given at a later date, after initiation with cladribine tablets, once lymphocyte counts have recovered	8	93.5%	Treatment-specific effects on lymphocyte counts should have ideally subsided	100%
TABLE 3: MANAGING PATIENTS WITH EVIDENCE OF DISEASE ACTIVITY WHILE BEING TREATED WITH CLADRIBINE TABLETS		Q8. How should latent or active infections be managed before initiation of cladribine tab Quantiferon test for TB_HPV [cervical screening]_HBV/HCV test_PMI.)	plets? (e.g. po	ositive PPD /		
Consensus recommendations	Strength [‡] Level of	Cladribine tablets are contraindicated in a patient with HIV or an active chronic infection			The waiting time is defined by the clinical need to switch. Cases of treatment 9	100%
Q3a. How would you manage a patient who has taken the first course of cladribine tablets but has evidence of new disease activity in Year 1?	evel of evidence: moderate)	 In any case of infection (latent or active), a relevant specialist should be contacted (e.g. infectious disease, pulmonologist, hepatologist etc.). 	9	96.8%	non-response should be decided on an individual risk / benefit analysis.	
After the first treatment course of cladribine tablets in Year 1, a patient with disease activity less than pre-treatment levels, might not necessarily be an indication for treatment discontinuation.*	8 97.0%	 The infection should be diagnosed, managed, and treated according to local guidelines. Screening for PML is recommended in any patient previously treated with natalizumab, particularly those who are JCV antibody positive, and a baseline MRI (within 3 months) should be performed before initiation of cladribine tablets. Additional CSE analysis 	9	83.3%	Caution is recommended in switching from cladribine tablets to natalizumab in any patient who is JCV antibody positive.	93.5%
Cortigoateroide chould be used to treat the release according to local quidelines		should be considered.			[‡] Strength of recommendation = median score on a 1–9 scale; [¶] percentage of votes with 7–9 on a 9-point scale	
Clinicians may wait and monitor the patient and provide cladribine tablets at the beginning of Year 2 in order to allow the patient to receive the recommended	9 97.0%	*Clinicians should consider a patient's prior treatment since those switching from a DMD associated with lymphopenia from latent infections.	a, may be at an ir	ncreased risk		
cumulative dose.		[‡] Strength of recommendation = median score on a 1–9 scale; [¶] percentage of votes with 7–9 on a 9-point scale			CONCLUSIONS	
[*] Disease activity in the first 3–6 months of treatment with cladribine tablets may be a carry-over from a patient's priespecially for those switching from lymphocyte trafficking agents (fingolimod or natalizumab).	ior treatment,	TABLE 5: PREGNANCY PLANNING MANAGEMENT AND MALIGNANCY RISK IN PATIENTS BEING TREATED WITH CLADRIBINE TABLETS	(The recommendations described here are the collective opinions of a large internation of experts representing a wide geographical spread. 	tional group
during the first two years of treatment with cladribine tablets?	Level of evidence: very low)	Consensus recommendations	Strength [‡]	Level of consensus [¶]	 They should provide practical, specific advice to all HCPs involved in the treatment management of patients with MS, address gaps in existing guidance and ultimately 	t and y improve car
During the first two years of treatment with cladribine tablets, a patient with		Q9a. How should pregnancy planning be managed in patients on cladribine tablets? (Le	evel of evidend	ce: very low)		
increasing disease activity above pre-treatment levels, may be a candidate for a treatment switch to another high efficacy DMD.*	8 87.9%	Based on human experience with other substances inhibiting DNA synthesis, cladribine tablets could cause congenital malformations when administered during pregnancy. Studies in animals have shown reproductive toxicity. There is very limited	8.5	96.9%	DISCLOSURES PSS has served on advisory boards for Biogen, Merck Healthcare KGaA, Novartis, Teva, MedDay Pharmaceuticals, and GSK; on steering committees of	or independent data
Corticosteroids should be used to treat relapses according to local guidelines.	9 97.0%	Cladribine tablets are contraindicated and should not be administered during pregnancy. Subsequent courses of cladribine tablets may be delayed during this time.	9	100%	monitoring boards in trials sponsored by Merck Healthcare KGaA, Teva, GSK, and Novartis; has received speaker honoraria from Biogen Idec, Merck He Sanofi-Aventis, Genzyme, Celgene and Novartis. His department has received research support from Biogen, Merck Healthcare KGaA, Teva, Novartis, I DC is an Advisory Board member of Almirall, Bayer Schering, Biogen, GW Pharmaceuticals, Merck Serono, Novartis, Roche, Sanofi-Genzyme, Teva and for speaking or consultation fees from Almirall, Bayer Schering, Biogen, GW Pharmaceuticals, Merck Serono, Novartis, Roche, Sanofi-Genzyme, Teva. H investigator in clinical trials for Bayer Schering, Biogen, Merck Serono, Mitsubishi, Novartis, Roche, Sanofi-Genzyme, Teva. H grants from Bayer Schering, Biogen Idec, Celgene, Merck Serono, Novartis, Roche, Sanofi-Genzyme and Teva.	Balthcare KGaA, Teva, Roche, and Genzyme. d received honoraria He is also the principal esearch was supported
 [*]Disease activity in the first 3–6 months of treatment with cladribine tablets may be a carry-over from a patient's proceeding for those switching from lymphocyte trafficking agents (fingolimod or natalizumab). Refer to Question 1b for the threshold of clinical or radiological activity in a patient following an appropriate court that indicates a suboptimal responder Refer to Question 10 for 'How to switch from cladribine tablets'. 	ior treatment, rse of a DMD	Breast-feeding is contraindicated during dosing with cladribine tablets and for 10 days after the last dose.	9	93.8%	 GG has received speaker honoraria and consulting fees from Abbvie, Actelion, Atara Bio, Almirall, Bayer Schering Pharma, Biogen Idec, FivePrime, Glaz Pharma, Merck & Co., Merck Healthcare KGaA, Pfizer Inc, Protein Discovery Laboratories, Teva Pharmaceutical Industries Ltd, Sanofi-Genzyme, UCB, Ironwood, and Novartis; and has received research support unrelated to this study from Biogen Idec, Merck & Co., Novartis, and Ironwood. XM has received speaking honoraria and travel expenses for participation in scientific meetings, has been a steering committee member of clinical trials or provide trials in the past years with Actelion, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Teva Pharmaceutical, Bayer, Biogen, Celgene, Genzyme, Merck, Novartis, Roche, Sanofi-Genzyme, Celgene,	koSmithKline, GW Vertex Pharmaceutical participated in advisory Excemed, MSIF and
Q4a. How would you manage a patient who has taken the indicated two courses of cla	adribine				NMSS DS has received grants and/or personal fees from Teva, Merck Serono, Novartis, Roche, Genzyme, Sanofi-Genzyme, Biogen Inc. and Bayer HealthCare	e.
Clinicians should consider a switch to another high efficacy DMD in a patient with	(Lever of evidence. 10w)	Before initiation of treatment both in Year 1 and Year 2, women of childbearing potential and males who could potentially father a child should be counselled regarding the potential for risk to the foetus and the need for effective contraception for at least 6 months after the last dose of cladribine tablets.*	8	100%	 PV has received honoraria or consulting fees from Biogen, Sanofi-Genzyme, Bayer, Novartis, Merck KGaA, Celgene, Roche and Almirall; and research s Sanofi-Genzyme, Bayer, and Merck KGaA. HW is a member of Scientific Advisory Boards/Steering Committees for Bayer Healthcare, Biogen Idec, Sanofi Genzyme, Merck Serono, Novartis, Roch speaker honoraria and travel support from Bayer Vital GmbH, Bayer Schering AG, Biogen, CSL Behring, EMD Serono, Fresenius Medical Care, Genzym Omniamed, Novartis, and Sanofi Aventis and Teva. He received compensation as a consultant from Biogen Idec, Merck Serono, Novartis, Omniamed, R 	support from Biogen, ie, and Teva. He receive ne, Merck Serono, Roche, and Sanofi
reappearing disease activity in Year 3–4.	NOT ACHIEVED [*]	Any unforeseen pregnancy within 6 months after the last dose of cladribine tablets is not necessarily an indication for a termination of the pregnancy. Any further administrations of cladribine tablets should, however, be discontinued immediately or delayed in this event. Patients should be counselled about potential risks to the foetus and referred to a high-risk pregnancy clinic.	9	96.9%	Genzyme. He has received research supports from Bayer Healthcare, Bayer Vital, Biogen Idec, Merck Serono, Novartis, Sanofi Genzyme, Sanofi US, and as German Ministry for Education and Research (BMBF), German Research Foundation (DFG), Else Kröner Fresenius Foundation, Fresenius Foundation Merck Serono, Novartis, NRW Ministry of Education and Research, Interdisciplinary Center for Clinical Studies (ISKF) Muenster, RE Children's Foundation BY has received honoraria for lectures and advisory boards from Bayer, Biogen, Genpharm, Genzyme, Merck-Serono and Novartis; and has received re Bayer, Biogen, Merck-Serono, Novartis and Pfizer.	nd Teva Pharma as wel on, Hertie Foundation, ion. esearch grants from
Clinicians should consider treatment options and associated risks and discuss with the patient.	9 100%	[*] It is currently unknown whether cladribine may reduce the effectiveness of systemically acting hormonal contraceptives should add a barrier method during cladribine treatment and for at least each treatment year ^[2]	ves. Therefore, w 4 weeks after the	omen using e last dose in	HS is an employee of Merck, Aubonne, Switzerland. PR has received honoraria for lectures/steering committee meetings from Merck, Biogen Idec, Bayer Schering Pharma, Boehringer-Ingelheim, Sanofi-Av Novartis, Teva Pharmaceutical Industries, and Serono Symposia International Foundation.	ventis, Genzyme,
Refer to Question 1b for the threshold of clinical or radiological activity in a patient following an appropriate cou	rse of a DMD	Q9b. Do cladribine tablets result in an increased risk of malignancy? (Lev Q1a dribing tablets result in an increased risk of malignancy? (Lev	vel of evidence	e: moderate)		
that indicates a suboptimal responderRefer to Question 10 for 'How to switch from cladribine tablets'		efficacy DMDs.			Emma East of Vivid Medical Communications provided editorial assistance	
Q4b. How would you manage a patient who has taken the indicated two courses of cla tablets but has evidence of new / reappearing disease activity only beyond Year 4?	adribine (Level of evidence: low)	• There was a higher incidence of malignancies in clinical studies and long-term follow-up of patients treated with a cumulative dose of 3.5 mg/kg cladribine tablets compared with placebo,* however, when compared to a matched reference population, there was no evidence for an increased risk.**	8	86.7%	The SC would also like to acknowledge the EF members who contributed by completing the questionnaire and voting on the draft recommendations.	
 Treatment options for a patient with a complete but non-durable response to cladribine tablets with evidence of new / reappearing disease activity beyond Year 4 could include: Consideration of a switch to another high efficacy DMD after thorough risk / benefit analysis. 		Clinicians should instruct patients to observe the standard guidelines for cancer screening.	9	100%	FUNDING This work was supported by Merck KGaA, who provided funding for the project.	
 Consideration of re-initiation with cladribine tablets, after thorough risk / benefit analysis. Benefit of additional treatment with cladribine tablets in response to disease activity beyond Year 2 has not been investigated. The incidence of lymphopenia and other adverse events is increased with additional treatment in Year 3 or 4. Re-initiation of therapy after Year 4 has also not been investigated. 	8 97.0%	Cladribine tablets are contraindicated in patients with an active malignancy.	9	90.0%	REFERENCES 1. Saposnik, G. and X. Montalban, <i>Therapeutic Inertia in the New Landscape of Multiple Sclerosis Care</i> . Front Neurol, 2018. 9 : p. 174. 2. <i>Mavenclad SmPC</i> . Aug 2018; Available from: https://www.medicines.org.uk/emc/product/8435/smpc.	ET POSTER P
 Clinicians should consider treatment options and associated risks and discuss with the patient. 		¹ Included all studies that used cladribine tablets monotherapy, matching the recommended dose: CLARITY, CLARITY up in PREMIERE.	YEXT and ORAC	LE-MS + follow-	 Deeks, E.D., <i>Cladribine Tablets: A Review in Relapsing MS</i>. CNS Drugs, 2018. 32(8): p. 785–796. Balshem, H., et al., GRADE guidelines: 3. <i>Rating the quality of evidence</i>. J Clin Epidemiol, 2011. 64(4): p. 401–406. Boguniewicz, M., et al., <i>Expert Perspectives on Management of Moderate-to-Severe Atopic Dermatitis:</i> 	
^E Strength of recommendation = median score on a 1–9 scale; [¶] percentage of votes with 7–9 on a 9-point scale *The reasons provided by the EF for not agreeing with this statement was that they would consider re-treatment wit However, the SC did not recommend re-treatment in Year 3 or 4 since this has not been formally investigated in a c	h cladribine tablets in this instance. linical trial setting, in addition to the	"The rate of malignancies observed with cladribine tablets during the clinical development programme in MS was sim GLOBOCAN reference population (8.00 observed events in the monotherapy oral cohort versus 8.27 expected events 0.44, 1.85]). Non-melanoma skin cancer was excluded due to inconsistent reporting in GLOBOCAN. Data is adjusted for Strength of recommendation = median events on a 1.0 code: Texaset are adjusted as a substant set of the second set of th	nilar to the expect s, respectively; SII country of origin, a	ted rate in the R: 0.97 [95% Cl age and gender.	A Multidisciplinary Consensus Addressing Current and Emerging Therapies. J Allergy Clin Immunol Pract, 2017. 5(6): p. 1519–1531.	CTANK CARACTER In Caracter

+Strength of recommendation = median score on a 1-9 scale; "percentage of votes with 7-9 on a 9-point scale



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