

Dementia Medicines AMBERO

DONEPEZIL, GALANTAMINE, RIVASTIGMINE and MEMANTINE **Prescribing Information Sheet**

To be read in conjunction with the SPC, NICE TA 217 1 and NICE NG972

Dementia Medicines: General Prescribing Considerations

- The three acetylcholinesterase inhibitors (AChEI), donepezil, galantamine and rivastigmine as monotherapies are recommended as options for managing mild to moderate Alzheimer's disease under the following conditions ^{1,2}:
 - For people who are not taking an AChEI or memantine, prescribers should only start treatment with these on the advice of a clinician who has the necessary knowledge and skills and in line with local primary and secondary care protocols where they exist. This could include:²
 - o secondary care medical specialists such as psychiatrists, geriatricians and neurologists
 - o other healthcare professionals such as GPs, nurse consultants and advanced nurse practitioners with specialist expertise in diagnosing and treating Alzheimer's disease.
 - Memantine is recommended as an option for managing Alzheimer's disease for people with moderate Alzheimer's disease who are intolerant of or have a contraindication to AChEI (e.g. if there are cardiac conduction problems or bradycardia) or severe Alzheimer's disease.
 - Once a decision has been made to start an AChEI or memantine, NICE guidance states that the first prescription may be made in primary care. To support prompt access to treatment it is recommended that the first prescription is issued within LCFT.
 - Clinicians should consider memantine in addition to an AChEI in patients with moderate disease and offer memantine
 in addition to an AChEI if they have severe disease. The NICE clinical guideline states that primary care prescribers
 may start treatment with memantine without taking advice from a specialist clinician where an AChEI is already
 prescribed. Accepting that GPs may not feel confident in initiating memantine in such circumstances, LCFT
 psychiatrists, nurse or pharmacist prescribers or advanced nurse practitioners may be contacted for advice without the
 need to automatically refer patients back into secondary care services for treatment advice see below for contact
 details of Memory Assessment Service (MAS) clinics.
 - If prescribing an AChEI (donepezil, galantamine or rivastigmine), treatment should normally be started with the drug
 with the lowest acquisition cost (taking into account required daily dose and the price per dose once shared care has
 started). However, an alternative AChEI could be prescribed if it is considered appropriate when taking into account
 adverse event profile, expectations about adherence, medical comorbidity, adherence, possibility of drug interactions
 and dosing profiles. Generic donepezil tablets have the lowest acquisition cost and should be considered as the 1st
 line AChEI.
 - Do not stop AChEI in people with Alzheimer's disease because of disease severity alone
- Galantamine may be better than other AChEls for insomnia.³
- Rivastigmine is licensed for dementia in Parkinson's disease and may be helpful if hallucinations are a prominent presenting feature of the dementia.³
- o **Memantine** may be preferred if AChEIs are contraindicated or not tolerated
- For patients with swallowing difficulties consider switching to orodispersible donepezil tablets in preference to using patches/ liquid formulations of other medications (if appropriate).
- Do not offer AChEl or memantine to people with fronotemporal dementia or with cognitive impairment caused by multiple sclerosis.
- Only consider AChEl or memantine for people with vascular dementia if their have suspected comorbid Alzheimer's disease, Parkinson's disease dementia or dementia with Lewy bodies

Table 1. Alzheimer's Dementia Dementia Medications: Summary of Dosing and Licensing Information ⁴				
Medication (Licensed Indications)	Dosing Information. See <u>SPC</u> for more details. Slower titrations may be used on specialist advice/to minimise side effects	Additional Information (See table 3 and 4 for Side Effects and Interactions)		
Donepezil 1st Line (Mild-Moderate Alzheimer's Dementia)	Initial dose: 5mg each evening, at bedtime. Increased to: 10mg after 4 weeks	Generic Donepezil tablets have the lowest acquisition cost and should be considered as the 1 st line AChEl. Nb Orodispersible tablets should be reserved for use in those with swallowing difficulties only. (Dispersible tablets are more cost effective compared to liquid preparations).		
Rivastigmine 2 nd Line (Mild-Moderate Alzheimer's Dementia And Mild-Moderate dementia in Parkinson's disease)	Capsules & liquid (Should be taken with food) Initial dose: 1.5mg twice daily for 2 weeks Increased to: 3mg twice daily for 2 weeks, then 4.5mg twice daily. Maximum daily dose = 6mg twice daily.	At least two weeks should lapse between oral dose increases, slower dose titration may help minimise GI and CNS side effects. If adverse reactions persist, the daily dose should be temporarily reduced to the previous well-tolerated dose.		
	Transdermal preparations Initial dose: 4.6mg/24hours, for at least 4 weeks Increased to: 9.5mg/24hours If well tolerated after a minimum of 6 months treatment at 9.5 mg/24 hours, can be increased to 13.3 mg/24 hours in patients who have demonstrated a meaningful cognitive deterioration/functional decline (based on clinical judgement).	Rivastigmine patches should be reserved for those patients who are unable to tolerate or swallow an oral AChEI. They are less likely to cause GI disturbance and may be helpful if nausea persists despite dose reduction/slower titration of oral rivastigmine preparations. Medication errors and inappropriate use of the rivastigmine transdermal patch have been reported, some of which resulted in overdose. See MHRA alert.		
Galantamine Alternative 2nd Line (Mild-Moderate Alzheimer's Dementia).	MR capsules Initial dose: 8mg once daily for 4 weeks Increased to: 16mg once daily for at least 4 weeks Usual maintenance Dose:16-24mg daily	Use modified release galantamine in preference to other formulations (may aid patient compliance). Branded modified release generic preparations eg Gatalin XL, Gazylan XL also have a lower acquisition cost. NB Liquid galantamine and normal release tablets are not		
	Normal release tablets and liquid Initial dose 4mg twice daily for 4 weeks Increased to: 8mg twice daily for at least 4 weeks Usual maintenance dose: 8-12mg twice daily Preferably taken with morning and evening meals	approved for use in some areas. Please note: this is an interim position pending the adoption of the Lancashire and South Cumbria ICB formulary. Dose adjustment is required in moderate hepatic impairment. Use is contraindicated in severe hepatic impairment and if eGFR is less than 9ml/min Treatment with cholinesterase inhibitors, including galantamine, has been associated with weight loss in Alzheimer's patients. During therapy, patient's weight should be monitored. As with other cholinomimetics galantamine should be given with caution in the following conditions: cardiac disorders; gastrointestinal disorders; nervous system disorders; respiratory, thoracic and mediastinal disorders; renal and urinary disorders – please see SPC for full details Skin Reactions: Patients and carers should be told to watch out for signs of serious skin reactions and be told to stop treatment and seek medical help immediately if these develop 4,5		
Memantine 3 rd Line Moderate Alzheimer's disease in patients who are intolerant to or have a contra-indication to AChEIs. Consider for patients with moderate dementia who are	Tablets and Liquid Initial dose: 5mg once daily If tolerated increase: by 5mg weekly to a maximum of 20mg daily If CrCl = 30 - 49 ml/min the daily dose should be 10 mg per day. If tolerated after at least 7 days of treatment, the dose can be increased up to 20 mg/day. If CrCl = 5 - 29 ml/min max daily dose is10mg.	Check renal function before prescribing Central nervous system side effects, such as dizziness and headaches are dose dependant. Slower dose titration and more frequent monitoring during initiation may help manage these.		

already prescribed an AChEI		Nb Liquid should be reserved for use in those with
(combination therapy).		swallowing difficulties only and in preference to
Severe disease. Should be		orodispersible tablets (as more cost effective)
offered in combination with		
AChEI in severe disease. Do		
not start both treatments		
simultaneously.		
·	Lewy Bodies and Parkinson's Disease Dementia	
Dementia Medications:	Summary of Dosing and Licensing Information ⁴	
Medication	Dosing Information. See SPC for more details.	Additional Information
(Licensed Indications)	Slower titrations may be used on specialist advice/to minimise side effects	(See table 3 and 4 for Side Effects and Interactions)
Donepezil 1 st Line	Initial dose: 5mg each evening, at bedtime.	Generic Donepezil tablets have the lowest acquisition cost and should be considered as the 1 st line AChEI.
Mild-Moderate-Severe		
Dementia with Lewy Bodies	Increased to: 10mg after 4 weeks	Nb Orodispersible tablets should be reserved for use
		in those with swallowing difficulties only. (Dispersible
Mild-Moderate-Severe		tablets are more cost effective compared to liquid
Parkinson's disease dementia		preparations).
Rivastigmine		
Alternative 1st Line	Capsules & liquid (Should be taken with food)	At least two weeks should lapse between oral dose
Mild-Moderate-Severe	Initial dose: 1.5mg twice daily for 2 weeks	increases, slower dose titration may help minimise GI and
Dementia with Lewy Bodies	Increased to: 3mg twice daily for 2 weeks, then 4.5mg twice	CNS side effects. If adverse reactions persist, the daily
Dementia with Lewy Bodies	daily. Maximum daily dose = 6mg twice daily.	dose should be temporarily reduced to the previous well-
Mild-Moderately		tolerated dose.
Severe dementia in	Transdermal preparations	Rivastigmine patches should be reserved for those
Parkinson's disease	Initial dose: 4.6mg/24hours, for at least 4 weeks	patients who are unable to tolerate or swallow an oral
	Increased to: 9.5mg/24hours	AChEI. They are less likely to cause GI disturbance and
	If well tolerated after a minimum of 6 months treatment at 9.5	may be helpful if nausea persists despite dose
	mg/24 hours, can be increased to 13.3 mg/24 hours in	reduction/slower titration of oral rivastigmine preparations.
	patients who have demonstrated a meaningful cognitive	Traduction and an end an ending in the properties
	deterioration/functional decline (based on clinical judgement).	
Galantamine	(**************************************	Use modified release galantamine in preference to other
2 nd Line	MR capsules	formulations (may aid patient compliance).
_	Initial dose: 8mg once daily for 4 weeks	Branded modified release generic preparations eg Gatalin
(Mild-Moderate Dementia	Increased to: 16mg once daily for at least 4 weeks	XL, Gazylan XL also have a lower acquisition cost.
with Lewy Bodies, only	Usual maintenance Dose:16-24mg daily	, ,
where Donepezil and		NB Liquid galantamine and normal release tablets are not
Rivastigmine are not		approved for use in some CCGs please check local
tolerated).	Normal release tablets and liquid	formularies.
Mild Madagata Carraga	Initial dose 4mg twice daily for 4 weeks	
Mild-Moderate-Severe	Increased to: 8mg twice daily for at least 4 weeks	Dose adjustment is required in moderate hepatic
Parkinson's disease	Usual maintenance dose: 8-12mg twice daily	impairment. Use is contraindicated in severe hepatic
dementia	Preferably taken with morning and evening meals	impairment and if eGFR is less than 9ml/min
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		Treatment with cholinesterase inhibitors, including
		galantamine, has been associated with weight loss in
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Memantine 3rd Line

(Dementia with Lewy Bodies and Parkinson's disease dementia if AChEI are not tolerated or contraindicated)

Tablets and Liquid

Initial dose: 5mg once daily

If tolerated increase: by 5mg weekly to a maximum of 20mg

dail

If CrCl = 30 - 49 ml/min the daily dose should be 10 mg per day. If tolerated after at least 7 days of treatment, the dose can be increased up to 20 mg/day. If CrCl = 5 - 29 ml/min max daily dose is10mg.

Check renal function before prescribing

Central nervous system side effects, such as dizziness and headaches are dose dependant. Slower dose titration and more frequent monitoring during initiation may help manage these.

Nb Liquid should be reserved for use in those with swallowing difficulties only and in preference to orodispersible tablets (as more cost effective)

Table 3. Monitoring and Review Requirements. 1,2,3

NICE guidance is clear that treatment should not stop due to disease severity alone.

- 1. Follow-up should be initiated by secondary care and patients who do not attend, contacted and offered follow-up at home (if this is can be accommodated).
- 2. When a treatment has been initiated, the first follow-up should where possible be at ~ 3 weeks (and before the 2nd prescription has been issued). The aim of this review is to establish if there are any significant side effects, it should therefore include a pulse check (See table 3 for details of side effects).
- 3. AChEIs should be stopped if they are causing clinically significant bradycardia.

Elderly; for acetylcholinesterase inhibitors, prescription potentially inappropriate in patients with a known history of persistent bradycardia (heart rate less than 60 beats per minute), heart block, recurrent unexplained syncope, or concurrent treatment with drugs that reduce heart rate (risk of cardiac conduction failure, syncope and injury).

- 4. GI side effects may respond to a dose reduction/slower titration. Anxiety or agitation might prompt a trial without AChEIs as they are stimulant drugs, the result might be more apathy but less agitation.
- 5. At about three months, a follow-up is needed where the patient should be assessed (by secondary care) for response to treatment. A cognition test may be done but especially in more advanced dementia, an assessment of well-being and functioning is more important. It is helpful to offer information about support organisations at every contact as people's receptiveness may be different at different times. If there is no subjective or objective improvement at the three month review, treatment can be continued if there are no side-effects, and the patient reassessed in a further six months, in which case secondary care would continue to issue prescriptions during this time period.
- 6. After the secondary care ~3-month review, when response to therapy and tolerance has been confirmed, primary care may take over prescribing responsibilities and routine follow up. If routine primary care consultations give rise to concerns about side effects, tolerability or the appropriateness of ongoing treatment then referral for secondary care review should be considered.
- 7. Further follow-up may include periodic assessment of cognition, as in a memory clinic, but should be omitted if it upsets or intimidates the patient. Overall functioning, medication issues and carer views will constitute most of the review.
- 8. It is anticipated that, providing the patient is tolerating the treatment and there are no contraindications the treatment will be maintained until such a time as it becomes inappropriate, such as in extreme frailty.
- 9. When dementia gets worse:

In moderate disease, addition of memantine should be considered for patients already prescribed an AChE.

In severe disease addition of memantine to an AChEI should be offered.

Whilst these changes can be made in primary care without taking advice from secondary care service, LCFT Memory Assessment Service staff will be available to offer advice should this be considered necessary.

10. There is no difference in effectiveness between AChEIs and the only reason for swapping is to see if a different drug is better tolerated.

If routine primary care consultations give rise to concerns about side effects, tolerability or the appropriateness of ongoing treatment then consider whether advice is needed from LCFT specialist staff or whether the presentation requires referral back to secondary care for review.

Table 4. Summary of Dementia Medication Side Effects Please refer to the individual medications SPC for more details

ACETYLCHOLINESTERASE INHIBITORS:

Donepezil, Galantamine, Rivastigmine

Donepezil

Common or very common

Aggression; agitation; appetite decreased; common cold; diarrhoea; dizziness; fatigue; gastrointestinal disorders; hallucination; headache; injury; muscle cramps; nausea; pain; skin reactions; sleep disorders; syncope; urinary incontinence; vomiting

Uncommon

Bradycardia; gastrointestinal haemorrhage; hypersalivation; seizure

Rare or very rare

Cardiac conduction disorders; extrapyramidal symptoms; hepatic disorders; neuroleptic malignant syndrome; rhabdomyolysis

Galantamine

Common or very common

Appetite decreased; arrhythmias; asthenia; depression; diarrhoea; dizziness; drowsiness; fall; gastrointestinal discomfort; hallucinations; headache; hypertension; malaise; muscle spasms; nausea; skin reactions; syncope; tremor; vomiting; weight decreased

Uncommon

Atrioventricular block; dehydration; flushing; hyperhidrosis; hypersomnia; hypotension; muscle weakness; palpitations; paraesthesia; seizure; taste altered; tinnitus; vision blurred

Rare or very rare

Hepatitis; severe cutaneous adverse reactions (SCARs)

There have been reports of QTc prolongation in patients using therapeutic doses of galantamine and of torsade de pointes in association with overdoses. Galantamine should therefore be used with caution in patients with prolongation of the QTc interval, in patients treated with drugs affecting the QTc interval, or in patients with relevant pre-existing cardiac disease or electrolyte disturbances

Rivastigmine

The manufacturer recommends that patients are warned of the signs of serious skin reactions; they should be advised to stop taking galantamine immediately and seek medical advice if symptoms occur.

General side-effects:

Common or very common

Anxiety; appetite decreased; arrhythmias; asthenia; dehydration; depression; diarrhoea; dizziness; drowsiness; fall; gastrointestinal discomfort; headache; hyperhidrosis; hypersalivation; hypertension; movement disorders; nausea; skin reactions; syncope; tremor; urinary incontinence; urinary tract infection; vomiting; weight decreased

Uncommon

Aggression; atrioventricular block

Rare or very rare

Pancreatitis; seizure

Frequency not known

Hepatitis

Specific side-effects:

Common or very common

With oral use

Confusion; gait abnormal; hallucinations; malaise; parkinsonism; sleep disorders

Uncommon

With oral use

Hypotension

With transdermal use

Gastric ulcer

Rare or very rare

With oral use

Angina pectoris; gastrointestinal disorders; gastrointestinal haemorrhage

Frequency not known With transdermal use

Hallucination; nightmare

Side-effects, further information

Dose should be started low and increased according to response if tolerated.

Treatment should be interrupted if dehydration resulting from prolonged vomiting or diarrhoea occurs and withheld until resolution—retitrate dose if necessary.

Transdermal administration is less likely to cause side-effects.

NMDA RECEPTOR ANTAGONISTS:

Memantine

Common or very common

Balance impaired; constipation; dizziness; drowsiness; dyspnoea; headache; hypersensitivity; hypertension

Uncommon

Confusion; embolism and thrombosis; fatigue; fungal infection; hallucination; heart failure; vomiting

Rare or very rare

Seizure

Frequency not known

Page **5** of **7**

Hepatitis; pancreatitis; psychotic disorder **Table 5. Interactions**⁴ Please refer to the individual medications SPC for more details ACETYLCHOLINESTERASE INHIBITORS: NMDA RECEPTOR ANTAGONISTS: Donepezil, Galantamine, Rivastigmine Memantine Should not be prescribed with other acetylcholinesterase inhibitors, Effects of L-dopa, dopaminergic agonists, and anticholinergics may be anticholinergics or cholinergic agonists enhanced by concomitant treatment with memantine. NSAID's- Monitor for symptoms of ulcerative disease. The effects of barbiturates and neuroleptics may be reduced. Inhibitors of Cytochrome P450 3A4 and 2D6 may increase plasma Dose adjustment of dantrolene or baclofen may be necessary when co levels. Examples include Erythromycin, Ketoconazole, Itraconazole, administered with memantine. Fluoxetine, Quinidine. Concomitant use of memantine and amantadine should be avoided. Enzyme inducers may decrease plasma levels. Examples include owing to the risk of pharmacotoxic psychosis. Both compounds are chemically related NMDA-antagonists. The same may be true for Rifampicin, Phenytoin, Carbamazepine and alcohol ketamine and dextromethorphan. There is one published case report Potential to interfere with drugs having anticholinergic activity on a possible risk also for the combination of memantine and phenytoin. Potential for additive effects with Beta- Blockers Cimetidine, ranitidine, procainamide, quinidine, quinine and nicotine use Additive effects with Succinylcholine and other neuromuscular blockers There have been reports of QTc prolongation in patients using Possibility of reduced serum level of hydrochlorothiazide (HCT) when

association with overdoses. Galantamine should therefore be used with caution in patients with prolongation of the QTc interval, in patients treated with drugs affecting the QTc interval, or in patients with relevant pre-existing cardiac disease or electrolyte disturbances

therapeutic doses of galantamine and of torsade de pointes in

the same renal cationic transport system as amantadine, and may also interact with memantine leading to a potential risk of increased plasma

co-administered with memantine.

Close monitoring of prothrombin time or INR is advisable for patients concomitantly treated with oral anticoagulants.

Memory Assessment Service (MAS) clinic contact details for each locality				
Central Lancashire	West Lancashire	Fylde Coast	South Cumbria	
Charnley Fold	Brookside	Fleetwood Health & Wellbeing	Kirkstone House	
Cottage Lane	Aughton Street	Centre (Main Hub)	Murley Moss Business Park	
Bamber Bridge	Ormskirk, L39 3BH	Second Floor	Kendal	
Tel: 01772 401621	Tel: 01695 684701	Dock Street	LA9 7RL	
		Fleetwood, FY7 6HP	Tel. 01530 462597	
		Tel: 01253 957036		
Pennine Lancashire	Lancaster & Morecambe		Dane Garth	
(East Lancs & BwD)	Altham Meadows		Dalton Lane	
Gannow Lane Resource Centre	Bartholomew Road		Barrow	
164 Gannow Lane	Morecambe		LA14 4JR	
Burnley	LA4 4RR		Tel. 01229 404353	
BB12 6QH	Tel: 01524 550143			
Tel: 01282 657832				

References.

- 1. NICE TA 217. Donepezil, galantamine, rivastigmine and memantine for treatment of Alzheimer's disease. March 2011. (Updated June 2018) https://www.nice.org.uk/quidance/ta217
- 2. NICE NG 97 Dementia: assessment, management and support for people living with dementia and their carers June 2018 https://www.nice.org.uk/guidance/ng97
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- 4. The Electronic Medicines Compendium. (accessed November 2022) https://www.medicines.org.uk/emc/
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- 6. NICE NG71. Parkinson's disease in adults. July 2017. https://www.nice.org.uk/guidance/ng71
- 7. Royal Pharmaceutical Society. British National Formulary. London. Accessed via https://bnf.nice.org.uk/ [accessed online December 2022].

Please access this guidance via the LSCMMG website to ensure that the correct version is in use.

Version Control

Version Number	Date	Amendments Made	
Version 1.1	June 2015	Approved	
Version 1.2	July 2015	Donepezil cost updated	
Version 1.3	October 2015	Table 2 monitoring requirements updated with point 5.	
Version 1.4	February 2016	Information about severe skin reactions with	
		galantamine added. Specific product costing information	
		removed.	
Version 1.5	January 2018	1 ST and 2 nd line treatment options highlighted alongside	
		lowest acquisition cost of Galantamine MR branded	
		generics. Side effects and cautions updated	
Version 1.6	January 2020	Updated to reflect changes in NICE Clinical Guideline	
		(NG97) including commencing memantine in primary	
		care. AG.	
Version 1.7	December 2022	Updated in line with current version of the SPC. AG/JG.	

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