## **DEMENTIA DRUGS SUMMARY CARD**

(summary of drugs used in the treatment of dementia

		AcetylCholinEsterase I (AChEls)	NMDA receptor antagonist	
	Donepezil	Galantamine	Rivastigmine	Memantine
Dose and formulation	5mg once daily in the evening, at bedtime. Increased if necessary after one month to 10mg once daily.  Oro-dispersible SF tablets available (cost significantly more)	Standard release tablet and liquid 4mg twice daily, preferably with/after meals. Increase, at monthly intervals, to maximum tolerated dose of up to 12mg twice daily.  Modified Release (MR) capsules 8mg once daily.	Capsule (£) and oral solution SF (£££)  1.5mg twice daily with meals. Increase dose to max tolerated up to 6mg twice daily. Minimum of 2 weeks between dose increases.  Patch (cost significantly more)  4.6mg/24hrs increase to 9.5mg/24hrs after a minimum of 4 weeks.  After a further 6 months, may be	Tablet/orodispersible tablet & oral sol SF 5mg once daily, increased by 5mg at weekly intervals, until reaching recommended maintenance dose of 20mg once daily.  Oro-dispersible SF tablets available (cost significantly more)
	Standard tablets can be crushed and mixed with water for administration	Increase, at monthly intervals, to maximum tolerated dose of up to 24mg once daily.  Standard tablets can be crushed and mixed with water for administration	increased to 13.3mg/24 hours if clinically indicated  If treatment is interrupted for more than three days, re-titrate from start to reduce the possibility of side-effects  Capsules can be opened, and the contents dispersed in water for administration	Standard tablets can be crushed and mixed with water for administration
CCG preferred	Generic tablets	Gatalin XL capsules	Generic capsules	Generic tablets
Cautions	<ul> <li>Sino-atrial or AV node block, or sick sinus syndrome</li> <li>Severe asthma</li> <li>Concomitant βeta-blocker therapy</li> <li>Urinary symptoms (avoid use of galantamine)</li> <li>People at increased risk of peptic ulcers (those with history of ulcer disease or on concomitant NSAIDs, aspirin and/or SSRI)</li> <li>Chronic obstructive pulmonary disease or active pulmonary infections</li> <li>Epilepsy</li> <li>CVD</li> <li>May exacerbate/induce extrapyramidal symptoms</li> </ul>			<ul> <li>History of convulsions, epilepsy</li> <li>Patients with recent MI, uncontrolled hypertension or uncompensated congestive heart failure were excluded from the clinical trials. These patients should be closely supervised</li> <li>Patients who have had/plan drastic dietary change e.g. normal to vegetarian increases urine pH reducing memantine elimination</li> </ul>

	Donepezil	Galantamine	Rivastigmine	Memantine
Contra- Indications		<ul> <li>Severe hepatic/renal impairment or those who have both significant renal and hepatic dysfunction.</li> <li>Urinary retention or history of prostatic condition.</li> </ul> ary problems of galactose intolerance, the sy or glucose-galactose malabsorption	<ul> <li>Known hypersensitivity to carbamate derivatives</li> <li>Severe liver impairment</li> <li>Previous history of application site reactions suggestive of allergic contact dermatitis with rivastigmine patch</li> </ul>	Patients with rare hereditary problems of fructose intolerance should not take oral solution (contains sorbitol).
Side- Effects	Two practically importan  1. GI – common S/Es ii  2. Cardiac  • heart block (sino- • bradycardia – if the interval >200ms,	Appears to be well tolerated in practice.  Commonly experienced: constipation, hypertension and dizziness, headache, drowsiness		
Clinically important drug interaction	<ul> <li>e.g. oxybutynin, anti</li> <li>Potential for synergiother neuromuscula effects on cardiac control</li> </ul>	effects with other drugs that share the	<ul> <li>May interact with warfarin and increase INR so close monitoring advised</li> <li>Effect of levodopa or anticholinergics may be enhanced and doses may need to be adjusted</li> </ul>	
	Metabolised via CYF liver. Inhibitors of the clarithromycin, ketoc paroxetine) may inc may experience incr may be required)     Enzyme inducers (e carbamazepine & ale	P3A4 and CYP2D6 pathways in the ese pathways (e.g. erythromycin, conazole, fluvoxamine, fluoxetine, rease ↑ drug levels and patients eased side effects (dose reduction e.g. rifampicin, phenytoin, cohol) may decrease ↓ drug levels en with concurrent prescribing)	<ul> <li>Effects of antipsychotics may be reduced by memantine</li> <li>Increased risk of CNS toxicity when concomitant use of NMDA antagonists (amantadine, ketamine &amp; dextromethorphan) and should be avoided</li> </ul>	
Renal Impairment	Not affected	Contra-indicated if creatinine clearance less than 9 mL/minute	Titrate according to individual tolerability to S/Es	Severe (creatinine clearance 5–29 ml/min) 10 mg max daily dose

## **REFERENCES:**

BNF via <a href="https://bnf.nice.org.uk/treatment-summaries/dementia/">https://bnf.nice.org.uk/treatment-summaries/dementia/</a>, NEWT guidelines for administration of medication to patients swallowing difficulties via <a href="https://www.newtguidelines.com/">https://www.newtguidelines.com/</a>, NICE TA217 Treatment of Alzheimer's disease via <a href="https://www.nice.org.uk/guidance/ta217">https://www.newtguidelines.com/</a>, NICE TA217 Treatment of Alzheimer's disease via <a href="https://www.nice.org.uk/guidance/ta217">https://www.nice.org.uk/guidance/ta217</a>, RDaSH Dementia Formulary Guidance via <a href="https://www.medicines.org.uk/emc/">https://www.medicines.org.uk/emc/</a>