

Handy Hints When Prescribing Antidepressants

N.B. all drugs in each group are included for completeness – please check formulary status before prescribing The order of drugs listed does not imply an order of preference – please refer to age-relevant treatment algorithm for specific recommendations on treatment choice

SELECTIVE SEROTONIN REUPTAKE INHIBITORS (SSRIS) **ACTION**: Delayed disinhibition of serotonin neurotransmission via 4 key pathways – the somatodendritic serotonin autoreceptors, neuronal impulse flow and postsynaptic serotonin receptors, and inhibition of the serotonin reuptake pump **COMMON SIDE EFFECTS & DRUG** SPECIFIC INFORMATION ADVICE Causes activation of the central nervous system and may be more useful for patients with fatigue and apathy. • May be more useful for depressions with psychosis, the elderly/cognitively impaired and women. • Fewer clinically significant interactions. Less suitable for patients with anxious and panicky Sertraline presentation. Avoid in agitated patients or those with gastrointestinal Before initiating treatment, problems. discuss the possibility of Post-natal depression. discontinuation symptoms when • Drug of choice in pregnancy (lowest placental treatment is stopped exposure), breast-feeding (undetectable or low levels in • Upon initiation – headache, infant) and in patients with cardiac disease nausea, insomnia, sexual • Longer half-life – less discontinuation side effects; but dysfunction, gastro intestinal more drug interactions; more likely to cause agitation upset. and insomnia. Can alter insulin requirements. Most common cause of poor Causes activation of the central nervous system and compliance or stopping may be more useful for patients with fatigue and apathy medication (especially in first 2 Fluoxetine and hypersomnia. weeks). • Consider for atypical depression, the overweight Side effects self-limiting and patient, bulimia, or use in pregnancy. occur usually in first 2 weeks. • Higher risk of drug interactions, avoid if taking other Agitation and anxiety can medications increase / occur in first 2 weeks Watch for early and late onset side effects - if extreme use short term benzodiazepine (remember to ECG required before initiation to rule out pre-existing discontinue) for approximately 2 QT-prolongation – see <u>Trust guidelines</u>; maximum Citalopram doses reduced by MHRA to minimise risk of doseweeks. dependent QT-prolongation Increased risk of GI bleeds: consider co-prescription of PPI, More selective in the way they work and, therefore, especially in elderly and/or in generally have fewer side effects or secondary Escitalopram combination with aspirin or properties. NSAID • May suit medically ill patients or those where there is polypharmacy Nausea more common. Drug interactions more common than with other SSRIs Fluvoxamine (potent inhibitor of hepatic cytochrome P450 enzymes) Has more anxiolytic and sedative properties and may be useful in patients with agitation and insomnia.

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Not recommended by TEWV due to common

discontinuation and antimuscarinic effects.

Paroxetine



SEROTONIN / NOREPINEPHRINE REUPTAKE INHIBITORS (SNRIs)

ACTION: Acts as an SSRI, but with additional norepinephrine reuptake inhibition, and some dopamine reuptake inhibition.

	DRUG	SPECIFIC INFORMATION	COMMON SIDE EFFECTS & ADVICE
Ve	enlafaxine	 Withdraw slowly – higher risk of discontinuation effects Venlafaxine MR – take in morning, less chance of insomnia Norepinephrine effect generally only seen in doses >150mg so acts as SSRI in lower doses Doses >225mg, of any preparation - secondary care initiation, monitoring and stabilisation, before transfer back to primary care. Monitor BP 6 monthly. Be aware of higher toxicity in overdose so assess risk 	 Similar side effects to SSRIs upon initiation – nausea / headache / insomnia / sexual dysfunction (see SSRI section). Discontinuation effects more likely due to short half-life. Sexual dysfunction – problematic, but less so with
	lloxetine all doses)	May be of benefit to patients experiencing pain or frequency of micturition	duloxetine

NORADRENERGIC and SPECIFIC SEROTINERGIC ANTIDEPRESSANT (NaSSA)			
ACTION : Pre-synaptic alpha 2 adrenoreceptor antagonist - enhances both serotonin and norepinephrine neurotransmission, and has antihistamine properties			
DRUG	SPECIFIC INFORMATION	COMMON SIDE EFFECTS & ADVICE	
Mirtazapine	 Monitor FBC if sign of infection. Sedation – paradoxically lower dose more likely to cause sedation than higher doses 	 Can cause weight gain and sedation. Can cause blood dyscrasias. Sexual dysfunction uncommon 	

MULTIMODAL SEROTINERGIC AGENT ACTION: Inhibits re-uptake of serotonin, an antagonist at 5HT ₃ receptors and an agonist at 5-HT _{1A} receptors			
DRUG	SPECIFIC INFORMATION	COMMON SIDE EFFECTS & ADVICE	
Vortioxetine	 Enhanced release of 5HT, norepinephrine, dopamine, acetylcholine and histamine could theoretically improve the efficiency of information processing in maladaptive brain circuits by facilitating long-term potentiation, synaptic plasticity, and enhanced pyramidal neuron activity leading to improvement not only of mood, but also of cognitive symptoms in major depressive disorder. Glutamate action should help with anxiety, but trials in GAD have been variable 	 Nausea seems to be particularly prevalent No cardiovascular effects 	

SEROTONIN ANTAGONIST REUPTAKE INHIBITORS (SARIS)			
	ACTION: Similar to SSRIs but blocks serotonin receptors rather than stimulating them		
DRUG	SPECIFIC INFORMATION	COMMON SIDE EFFECTS & ADVICE	
Trazodone	 Low anticholinergic and cardiotoxicity. Take with food to reduce peak blood levels Can add to SSRI to aid sleep 	 Increased sedation (used off-licence as a hypnotic) and nausea. Tremor, postural hypotension, tachycardia. 	

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SELECTIVE NOREPINEPHRINE REUPTAKE INHIBITORS (NRIS)				
	ACTION: Selective inhibition of norepinephrine reuptake			
DRUG NAME	SPECIFIC INFORMATION	COMMON SIDE EFFECTS & ADVICE		
Reboxetine	 Has also shown antinociceptive properties (reducing sensitivity to painful stimuli). Reasonable alternative in patients intolerant to serotonergic side effects from SSRI or TCA Reboxetine might be less effective than SSRI and SNRI Use only in severe depression or if patient is unable to tolerate serotinergic medications 	 Side effects (less than with TCA) - insomnia, sweating, dizziness, dry mouth, constipation, tachycardia, urinary hesitancy may occur. Sexual dysfunction uncommon. Can cause hypokalaemia. 		

	TRI- AND TETRACYCLIC ANTIDEPRESSANTs (TCAs)		
ACTION: Serotonin and norepinephrine reuptake inhibitor (therapeutic action), with anticholinergic properties, antihistamine and adrenergic antagonism (side effects).			
DRUG NAME	SPECIFIC INFORMATION	COMMON SIDE EFFECTS & ADVICE	
Amitriptyline	Has shown additional effects on pain relief in low dose	Antimuscarinic, sedation (often with hangover effects), weight	
Lofepramine	 Less cardiotoxic than other TCAs and therefore less toxic in overdose. May have increased risk of hepatic toxicity 	gain. • Very cardiotoxic – arrhythmias, tachycardia / heart block.	
Doxepin	Very sedating, good for patients with sleep problems	Very toxic in overdose as they inhibit sodium channels.	
Clomipramine	More activating, has also demonstrated efficacy in anxiety	Postural hypotension. Women less tolerant of TCA	
Imipramine	Anxiolytic and sedative, reasonable choice in patients with sleep problems	side effects than men Titrate to effective dose.	
Nortriptyline	Usually better tolerated than other TCAs with less cardiac and orthostatic side effects, often used in the elderly	Caution in patients with cardiac disease.Don't give to patients with	
Trimipramine		suicide ideation or prescribe only a few days' supply at a	
Dosulepin	DO NOT PRESCRIBE – see NHS England guidance	time. Studies demonstrated more rapid onset of action than with SSRI's especially in male patients	

	AGOMELATINE		
ACTION: Melatonin receptor agonist and a selective serotonin-receptor antagonist; does not affect the uptake of serotonin, noradrenaline or dopamine			
DRUG NAME	SPECIFIC INFORMATION	COMMON SIDE EFFECTS & ADVICE	
Agomelatine	 Restricted formulary in TEWV – see NTAG recommendation; requires approval before initiation RED drug – secondary care prescribing only Melatonin activity useful if insomnia is a feature 	 Relatively free of side-effects Minimal cardiovascular effects Rare reports of liver damage and failure – LFT monitoring required before initiation and after 3, 6, 12 and 24 weeks, then regularly thereafter when clinically indicated 	

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