

Dopaminergic Therapy in Parkinson's

The purpose of this factsheet is to rationalise the dopaminergic therapy options in Parkinson's

Table 1: Initial Therapy Options

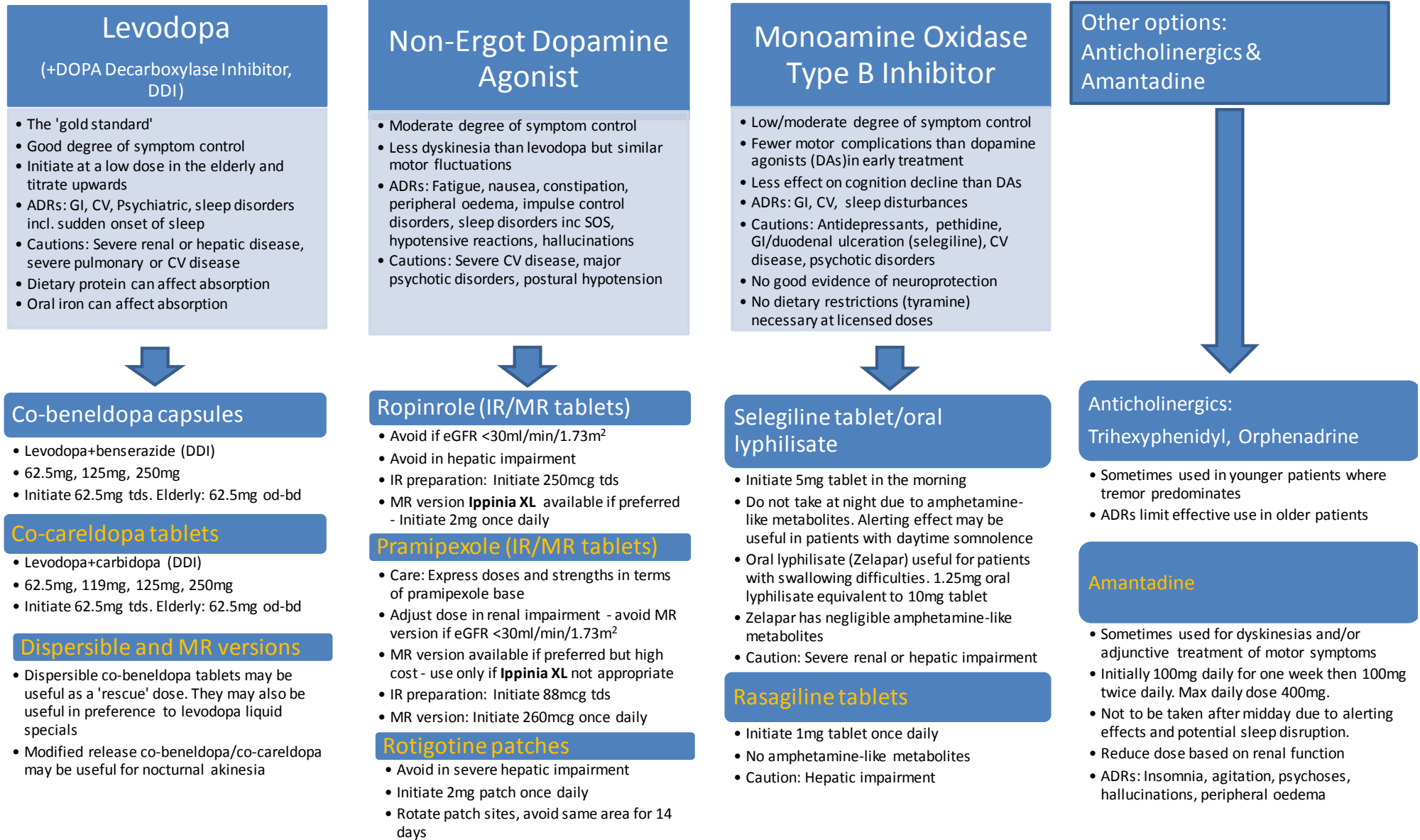
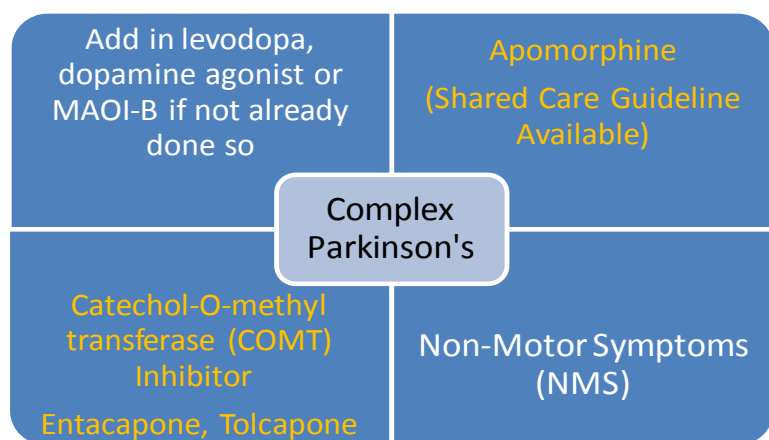


Table 2: Options in Complex Parkinson's where there is inadequate symptom control with initial therapies



Entacapone

- Co-prescribe with levodopa+DOPA Decarboxylase inhibitor for 'end of dose' motor fluctuations
- Must be taken at the same time as levodopa doses
- 200mg with each dose of levodopa up to max. 2g (10 tabs) daily
- Avoid in hepatic impairment
- ADRs: Nausea, vomiting, abdominal pain, reddish-brown discolouration of urine
- Combination product **Sastravi/Stalevo** available

Tolcapone

- Only use if entacapone is inappropriate/ineffective
- Intensive LFT requirements.
- Patients should be told how to recognise signs of liver disorder
- Caution if eGFR <30ml/min/1.73m²
- Avoid in hepatic impairment
- 100mg 3 times daily, leave 6 hours between each dose. Max 200mg 3 times a day in exceptional circumstances
- Continue beyond 3 weeks only if substantial improvement

Non-Motor Symptoms

- Don't overlook the management of NMS which can have the greatest impact on QoL than the motor symptoms
- Common NMS include constipation (50%), anxiety (40%), REM Sleep Behaviour Disorder (37%), depression (37%), excessive daytime sleepiness (33%), fatigue, pain, sexual dysfunction, bladder problems, cognitive impairment, psychoses, smell/taste disturbance

Key Prescribing Points

- Be vigilant for impulse control disorders, especially with dopamine agonists (6-14% of patients)
- Parkinson's regimens can be complex. Contact the patient's nominated nurse specialist or consultant for advice on changes
- Be aware especially of the use of IR and MR forms of levodopa when prescribing. Often patients will have IR levodopa during the day and an MR preparation at night
- Avoid abrupt withdrawal of dopaminergic medication or 'drug holidays'. This can potentially result in neuroleptic malignant syndrome
- Patients taking selegiline or rasagiline with antidepressants should be aware of the symptoms of serotonin syndrome
- If patients present with acute deterioration in their Parkinson's, refer to the 'Acute Deterioration' Pathway - check for acute illness; UTI, constipation or problems with medication taking.
- All people with Parkinson's who drive should be advised to inform the DVLA and their car insurer of their condition

References

- NICE (2006): Parkinson's disease: Diagnosis and management in primary and secondary care. <https://www.nice.org.uk/guidance/cg035>
- BMJ (2014): Initial management of Parkinson's disease
- TN (2015): Meta-analyses on prevalence of selected non-motor symptoms before and after diagnosis