

RECOMMENDATIONS FOR TREATMENT OF PAINFUL PERIPHERAL DIABETIC NEUROPATHY IN ADULTS

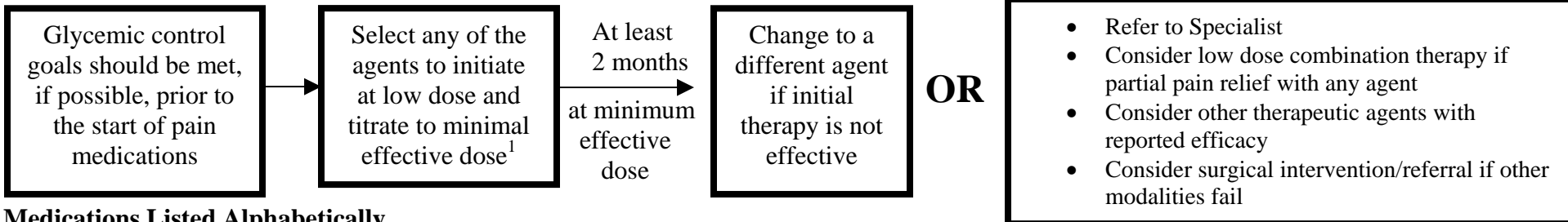
*****No treatment has been shown to result in superior pain control compared to another agent*****

Choice of agent should be based on:

- Side effects
- Comorbidities
- Cost
- Concomitant Medications
- Realistic expectations: Goal pain relief /partial relief

Evaluate for and treat secondary causes of peripheral neuropathy:

- Glucose control
- Macrocytic anemia, B12, Folic acid or Vitamin D deficiency
- Lifestyle changes-alcohol & smoking cessation
- Radiculopathy
- Electrophysiology assessment recommended if glucose control does not improve pain due to other potential etiologies



Medications Listed Alphabetically

<u>Duloxetine</u> ¹	<u>Gabapentin</u> ¹	<u>Pregabalin</u> ¹	<u>Tramadol</u> ¹	<u>Tricyclic antidepressants</u> ¹ <u>(TCA's)</u>
<p>Pros:</p> <ul style="list-style-type: none"> • May also treat depression <p>Cons:</p> <ul style="list-style-type: none"> • May cause nausea, dizzy/drowsy • Use with caution with other antidepressant medication 	<p>Pros:</p> <ul style="list-style-type: none"> • Generic <p>Cons:</p> <ul style="list-style-type: none"> • Saturable absorption gives lower absorption with increasing doses • Example: absorption at 900mg/day: 60% 3600mg/day: 33% • Some risk of dizzy/drowsiness/weight gain • Renal adjustment of dose may be needed 	<p>Pros:</p> <ul style="list-style-type: none"> • No saturable absorption issues as with gabapentin <p>Cons:</p> <ul style="list-style-type: none"> • Similar mechanism of action to gabapentin • Some risk of dizzy/drowsiness/weight gain • Renal adjustment of dose may be needed 	<p>Pros:</p> <ul style="list-style-type: none"> • Generic <p>Cons:</p> <ul style="list-style-type: none"> • Nausea • Dizziness <p>Cautions</p> <ul style="list-style-type: none"> • Contraindicated in known seizure disorder or with MAO Inhibitors • Caution with use with other serotonergic agents • Avoid abrupt withdrawal 	<p>Pros:</p> <ul style="list-style-type: none"> • Generic <p>Cons:</p> <ul style="list-style-type: none"> • Anticholinergic side effects <p>Cautions</p> <ul style="list-style-type: none"> • Caution with use with other antidepressants • Dose-related QTc prolongation • Caution with other medications that inhibit CYP450 significantly
<i>Minimum Effective Dose</i> 60 mg daily	<i>Minimum Effective Dose</i> 100-600 mg tid	<i>Minimum Effective Dose</i> 50 mg tid or 150 mg hs	<i>Minimum Effective Dose</i> 50 mg bid	<i>Minimum Effective Dose</i> 12.5-50 mg at bedtime

Other therapeutic agents with reported efficacy:

Topical capsaicin, topical lidocaine, venlafaxine, bupropion, opioid derivatives, alpha-lipoic acid, MIRE therapy (Anodyne); **Consider surgical intervention if other modalities fail.**

¹Refer to prescribing information for titration recommendations
Argoff CE et al. Mayo Clin. Proc. 2006 Apr; 81(4 Suppl): S12-25.