Neuropathy Medication for Diabetes

Prevention – Maintain glycemic control; quit smoking, alcohol reduction, exercise.

Pathogenetically Oriented Therapy

• Alpha lipoic acid 600 – 1,800 mg a day

Prescription Therapy:

1st line – Tricyclic Antidepressants (Amitriptyline, Nortriptyline, Desipramine)

- Calcium Channel Modulators (Gabapentin, Pregabalin)
- Serotonin Norepinephrine Reuptake Inhibitors (SNRI Venlafaxine, Duloxetine)

2nd Line

- Topical Capsaicin Cream for localized pain Apply 2-4 x daily for up to 8 wks
- Opioids (Tramadol, Oxycodone)

Reasons for Treatment Failure

- Dose too low
- Inadequate trial requires 2-8 weeks of treatment to observe symptom reduction
- Pt expecting elimination of symptoms only reduces symptoms by about 50%
- Incorrect diagnosis: If in doubt, refer to neurologist
- If patient does not respond or has adverse effects, change medication class
- In patient has some but inadequate relief, raise the dose and consider adding or changing meds.

References: Ziegler, D. Painful diabetic neuropathy. Diabetes Care 2009; 32 (Supp 2): S414-S419

Class	Generic / Trade	Usual Daily Dose	Comments	Side Effects/ Caution
Class	· ·		Comments	Side Effects/ Caution
at .	Name	Range	c+	
1 st Line Agents	Amitriptyline / Elavil	25 – 100 mg*	Usually 1 st	Take 1 hour before sleep.
Tricyclic	Nortriptylline /	Avg dose 75mg 25 - 150 mg*	choice Less sedating	Side effects; dry mouth, tiredness, orthostatic
Antidepressants	Pamelor	(for burning mouth)	and	hypotension.
TCA	Desipramine /	25 – 150 mg*	anticholinergic	Caution: not for pts w/
Improves	Norpramine	25 – 150 Hig	antichonnergic	unstable angina (<6 mo),
neuropathy and	'	*Increase by		MI, heart failure,
depression		25mg weekly till		conduction system
		pain relieved		disorder.
Calcium Channel	Gabapentin/ Neurontin	100 - 1,200mg TID	Improves	Sedation, dizziness,
Modulators			insomnia,	peripheral edema, wt gain
	Pregabalin / Lyrica	50 - 200mg TID	fewer drug	Caution; CHF, suicide risk,
	*FDA approved for		interactions	seizure disorder.
	neuropathy treatment			
Serotonin	Duloxetine / Cymbalta	60 mg daily	Improves	Nausea, sedation, HTN,
Norepinephrine	*FDA approved for	Start at 30 mg	depression,	constipation, dizziness,
			insomnia	dry mouth, blurred vision.
Reuptake Inhibitor	neuropathy treatment		Illisollilla	
Reuptake Inhibitor	Venlafaxine/ Effexor	75 - 225 mg daily	, msomma	Caution: adjust dose for
		75 - 225 mg daily	misomma	
Reuptake Inhibitor		75 - 225 mg daily	insonina	Caution: adjust dose for
Reuptake Inhibitor		75 - 225 mg daily 50 – 400 mg		Caution : adjust dose for renal insufficiency, do not
Reuptake Inhibitor SNRI	Venlafaxine/ Effexor	,		Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose.
Reuptake Inhibitor SNRI 2 nd Line Agents	Venlafaxine/ Effexor Weak opioids	,	Sedation, nausea prescribe stool s	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose.
Reuptake Inhibitor SNRI 2 nd Line Agents	Venlafaxine/ Effexor Weak opioids Tramadol / Ultram	50 – 400 mg	Sedation, nausea prescribe stool se Caution: abuse, s	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. a, constipation (always oftener)
Reuptake Inhibitor SNRI 2 nd Line Agents	Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opiods	50 – 400 mg	Sedation, nausea prescribe stool se Caution: abuse, s	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. a, constipation (always oftener) suicide risk, short acting mmended for long term tx,
Reuptake Inhibitor SNRI 2 nd Line Agents	Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opiods Oxycodone /	50 – 400 mg 10 – 100 mg	Sedation, nausea prescribe stool so Caution: abuse, so opioids not record can develop tole	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. a, constipation (always oftener) suicide risk, short acting mmended for long term tx,
Reuptake Inhibitor SNRI 2 nd Line Agents Opioids	Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opiods Oxycodone / Oxycodone	50 – 400 mg 10 – 100 mg 5%) Apply 2-4 x dail	Sedation, nausea prescribe stool so Caution: abuse, so opioids not record can develop tole y for up to 8 wks	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. a, constipation (always oftener) suicide risk, short acting mmended for long term tx, rance
Reuptake Inhibitor SNRI 2 nd Line Agents Opioids Local Treatment	Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opiods Oxycodone / Oxycodone Capsaicin Cream (0.02)	50 – 400 mg 10 – 100 mg 5%) Apply 2-4 x dail	Sedation, nausea prescribe stool so Caution: abuse, so opioids not record can develop tole y for up to 8 wks	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. a, constipation (always oftener) suicide risk, short acting mmended for long term tx, rance
Reuptake Inhibitor SNRI 2 nd Line Agents Opioids Local Treatment	Venlafaxine/ Effexor Weak opioids Tramadol / Ultram Strong opiods Oxycodone / Oxycodone Capsaicin Cream (0.025) If above medications not	50 – 400 mg 10 – 100 mg 5%) Apply 2-4 x dails	Sedation, nausea prescribe stool so Caution: abuse, so opioids not record can develop tole y for up to 8 wks cated or intolerable Citalopram / 6	Caution: adjust dose for renal insufficiency, do not stop abruptly, taper dose. a, constipation (always oftener) suicide risk, short acting mmended for long term tx, rance e consider: Celexa

