

**Newly enrolled
MSVD Patients**
(N=221)

**Eligible, completed baseline
ESAS (n=104)**

Not enrolled (n=18)
Refused, n=12
Lost to follow up, n=6

Enrolled (n=86)

**Moderate/severe
pain (n=23)**

**Mild/No pain
(n=63)**

**Completed
study (n=21)**

**Did not complete
study (n=2)**
Died, n=2

**Completed
study (n=53)**

**Did not complete
study (n=10)**
Died, n=7
Switched provider,
n=3

Excluded (n=117)

No Baseline ESAS (n=111)

- Advanced dementia, no good proxy (n=29)
- Nonverbal, no good proxy (n=19)
- Patient did not understand (n=14)
- Language barrier (n=10)
- Patient refused (n=8)
- Lack of time at visit (n=6)
- Patient too fatigued (n=3)
- Patient unable to answer clearly (n=3)
- Patient actively dying (n=2)
- Other, missing (n=17)

Completed baseline ESAS (n=6)

- Patient did not speak English (n=1)
- Patient left practice before contact (n=1)
- Patient died before contact (n=4)

BASELINE

6 MONTHS

Supplemental Figure 1. Study Flow Diagram.

Supplemental Table 1. List of opioid and non-opioid medications.	
Medication Category	Medication names
Acetaminophen	Tylenol, Panadol, Mapap, Temptra, Ofirmev, Mejoralito, Feverall, Apap, Acephen, Xl-dol, Nortemp, Aypanal, Aphen, Bf-paradac, Ringl
NSAIDs	Ibuprofen (Advil, Midol, NeoProfen, Ibu, Motrin, Caldolor), Diclofenac (oral and gel: Voltaren), Indomethacin (Indocin), Meloxicam (Mobic), Naproxen (Naprosyn, Naprelan, Aleve, Anaprox), Sulindac (Clinoril), Celecoxib (Celebrex), Choline magnesium trisalicylate (Tricosal, Trilisate), Salsalate (Disalcid, Mono-Gesic, Salflex), Nabumetone (Relafen), Ketorolac (Toradol, Sprix, Acuvail, Acular)
Opioid Medications	Hydromorphone (Dilaudid, Hydrostat), Tramadol (Ultram/Ultram ER), Oxycodone (Oxycontin, OxyIR, Percocet, Percodan, Tylox, Combunox), Fentanyl patch (Duragesic), Morphine (PO, sublingual, suppository. Immediate release: MSIR, Roxanol. Sustained release: Avinza, Kadian, MS Contin, Oramorph SR), Methadone (Dolophine), Codeine, Hydrocodone (Lorcet, Lortab, Norco, Vicodin, Vicoprofen), Oxymorphone (Immediate: Opana IR, Extended: Opana ER)
Adjuvants	Sumatriptan (Imitrex), Gabapentin (Neurontin), Tricyclic antidepressants (Desipramine (Norpramin), Nortriptyline (Aventyl, Pamelor), Amitriptyline (Elavil)), Pregabalin (Lyrica), Baclofen (Lioresal), Cyclobenzaprine, Lamotrigine (Lamictal), Duloxetine (Cymbalta), Venlafaxine (Effexor), Milnacipran (Savella), Carbamazepine (Tegretol), Mexiletine (Mexitil), Tizanidine (Zanaflex), Levetiracetam (Keppra), Divalproex (Depakote), Corticosteroids: Dexamethasone, Prednisone (Deltasone, Liquid Pred, Orasone), methylprednisolone (Medrol dose pack)
Other treatments	Marcaine (injection), Kenalog (injection), Lidocaine (Xylocaine) (injection), Lidocaine/Depo medrol (injection), Methanol topical gel, Pheny lephrine-Witch Hazel gel, Preparation H

Supplemental Table 2. Classification of opioid medications.

Long acting	Short acting	Weak	Strong	Transdermal	Oral	Liquid
Morphine	Hydromorphone	Codeine	Hydromorphone	Fentanyl patch	Hydromorphone	Roxanol
Fentanyl Patch	Tramadol	Tramadol	Oxycodone		Tramadol	
Methadone	Oxycodone		Oxycontin		Oxycodone	
Oxycontin	Morphine (Immediate release: MSIR, Roxanol)		Methadone		Oxycontin	
Oxymorphone (Extended: Opana ER)	Hydrocodone		Morphine (PO, sublingual, suppository)		Morphine (PO)	
	Codeine		Hydrocodone		Methadone	
	Oxymorphone (Immediate: Opana IR)		Fentanyl patch		Codeine	
					Hydrocodone	