

Popular Transdermal Preparations

Rheumatoid Arthritis/Joint Pain

Ketorolac 8%, DMSO 10 -20%, Tetracaine 2-5%, \pm CMO 2-6%, in Lipoderm

Diclofenac 8-12%, DMSO 10-20%, Tetracaine 2-5%, \pm CMO 2-10% in Lipoderm

Note: Use ketoprofen 20% if a rash develops from diclofenac

Note: Ketorolac PO to be taken 30 days maximum. If used on the knee, there is less than 5% ending up in the systemic circulation so it can be taken longer. Not to be used for non-joint areas.

Lower Back Pain

Diclofenac 8-12%, Baclofen 2-5%, DMSO 5-10%, Tetracaine 2-5%, \pm CMO 2-6% in Lipoderm

Post-Herpetic Neuralgia

Ketamine 10-15%, Morphine 0.5-2%, Amitriptyline 2-5%, Lidocaine 2-5% in Lipoderm

Use the following spray if the skin is too sensitive to apply the cream

Benzocaine 5%, Lidocaine 10%, Tetracaine 5% Spray

Neuropathic Pain

Loperamide* 5-10%, Gabapentin 6-10%, Amitriptyline 2-5%, Lidocaine 2-5% in Lipoderm

*Note: Loperamide is a weak mu agonist and extremely expensive.

Ketamine 5-15%, Morphine 0.5-1%, Gabapentin 6-10%, Lidocaine 2-5% in Lipoderm
 \pm Amitriptyline 2-5%,

Radiation Burns

Ketamine 2.5%, Morphine 0.5%, Lidocaine 2% \pm Gabapentin 6% in Lipoderm

Note: Skin has increased absorptive abilities so use lower concentrations to reduce systemic drug levels

Raynaud's Syndrome

Nifedipine 2-15%, Sildenafil 2-5%, Pentoxifylline 5-15% in Lipoderm

Nitroglycerin* 0.9% in Glaxal Base

Note: Nitroglycerin will probably cause a headache when 1st starting treatment but will disappear. Start with once a day applications to build tolerance.

Radiation Proctitis

Sucralfate 2-3g/15-20mL enema PR OD – BID x 12 days

Rectal Bleeding? Try 4g/20mL

May need to lower volume if urge to defecate present when using enema

Think of Glutamine supplementation orally – it is the building block of the GI Tract!

Transmucosal Pain – Rectal and Vaginal

Morphine 5-20mg, lidocaine 10-50mg, sucralfate 40-80mg in **MBK** suppositories

Can add ketamine 5-20mg

Suppositories seem to last longer than cream

Morphine 0.5-2%, lidocaine 2-5%, sucralfate 4-8% in Emollient Cream

Can add ketamine 5-15%

Clotrimazole 2%, lidocaine 2-5%, sucralfate 4-8% in Versabase

Ketamine 2.5-5%, hydromorphone 0.5-2%, lidocaine 2-5%, sucralfate 4-8% in Versabase

Ketamine 2.5-5%, morphine 0.5-2%, lidocaine 2-5%, sucralfate 4-8% in Versabase

Lidocaine 2-5%, sucralfate 4-8% in Versabase

*Note: Versabase has better penetration than Emollient Cream

Chemo Induced Peripheral Neuropathy

Ketamine 5-15%, baclofen 2-5%, lidocaine 2-5% ± morphine 0.5-2% in Lipoderm