Topical Pain Preparations
Including Oral and Nasal

TOPICAL TRANSDERMAL CREAMS AND GELS

INTRATHecal INJECTIONS

INTRAMUSCULAR INJECTIONS
We at Atlantic Pharmacy want to thank you for allowing us to introduce our innovative topical creams, offering a safe, effective alternative for the healthy management of acute and chronic pain conditions. As a physician that prescribes pain medication, you surely understand the challenges and risks as well as the scrutiny associated with treating chronic and acute pain conditions. Traditional treatment has a central focus on oral and injectable narcotics, these mainstay treatments have benefits, yet yield many unwanted side effects and the potential for abuse and addiction. All of our formulations contain a combination of FDA approved ingredients, compounded into a topical cream, which differ from the oral forms of these drugs. Due to the route of administration, these medications have less systematic absorption, resulting in a reduction of typical side effects. In addition to pain-focused ingredients, Atlantic Pharmacy’s team of preferred professionals can tailor these formulas to doctors' specifications and may include a variety of ingredients from anti-viral, anti-scarring, anti-fungal, anti-inflammatory and muscle relaxant medications addressing each patient's unique needs.

With these issues in mind, the mission of Atlantic Pharmacy is to revolutionize the means by which pain management is practiced. We accomplish this by transitioning pain patients and healthcare providers alike from traditional treatments to our topical creams. Thus, allowing patients to experience healthier fuller lives, and simultaneously reducing the clinicians' liability for prescribing dangerous oral narcotic drug therapies. Our team is dedicated to providing patients and physicians the pharmaceutical solutions and support needed to enhance the overall therapeutic value.

Our topical creams are covered by most insurances, putting effective pain relief at the fingertips of patients. Atlantic Pharmacy also offers cost effective formulas to patients who do not have coverage. Our goal is to enhance the way pain management is practiced and delivered to all the patients depending on you for their well-being.

We not only compound topical creams but also provide pharmaceutical solutions to address short supply drugs, along with a multitude of medications, from hard to find chemotherapeutics, to the more common vitamin and amino acid injectables.

Atlantic Pharmacy welcomes you, at your convenience, to have a tour of our state-of-the-art facility. Should you have any questions, or want to learn more about any of our products, our compounding specialists and customer support staff are available by phone or email. Thank you for your consideration and we look forward to providing a healthier, fuller lifestyle to your patients and a new direction in pain management.
Joint pain is described as any discomfort arising from any joint. The pain is often referred to as arthritis or arthralgia. Joint pain can range from mild discomfort to debilitating pain causing severe limitations in mobility. Although mostly prevalent in the older population, anyone can be affected by joint pain. Daily pain can affect mobility, independence, and quality of life.

NSAIDs have long been known to be highly effective at treating joint pain; however, their dangerous side effects include gastrointestinal discomfort, bleeding, and cardiovascular events. Topical use of creams for joint pain not only drastically reduce these side effects, it allows for continued long term use as needed. Combined with agents that provide additional pain relief through other mechanisms a patients’ mobility, independence and quality of life can improve.

Atlantic Pharmacy can provide a joint pain cream that can be individualized to a patient's needs.

**Flurbiprofen**-NSAIDs are widely used for joint pain and inflammation. Topical delivery allows maximum benefit without negative stomach or cardiovascular effect.¹

*Ketamine* has been shown to reduce infiltration with inflammatory cells and reduce joint destruction in acute and chronic arthritis.²

*Tramadol* used as an adjunct to local anaesthetics extends the duration of analgesia.

*Clonidine* provides analgesic affects and potentiates the effects of other anesthetics in the formula.

*Bupivacaine* is used as a local anaesthetic.

**Joint Pain Symptoms**

- Pain
- Stiffness
- Swelling
- Warmth at Joint
- Weakness
- Fatigue


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Musculoskeletal pain is pain that affects the muscles, ligaments, tendons, and bones. Pain can be found in the back, neck, shoulder, and other areas as well. Many patients suffer from widespread musculoskeletal pain. Issues such as lower back pain have even been referred to as the most common cause of disability in Americans below the age of 45. Oral medications can make working nearly impossible due to their side effects.

Atlantic Pharmacy can provide a topical musculoskeletal pain cream that will target the specific site of pain. This cream contains multiple agents that target the various pathways that cause musculoskeletal pain. Using a topical cream should decrease the amount of oral pain medications needed, reduce gastrointestinal distress, and decrease unwanted side effects. A topical cream for musculoskeletal pain is much less invasive than traditional medications or surgical procedures.

Atlantic Pharmacy’s standard Musculoskeletal Pain Formula fits the need of the majority of patients with local muscle, tendon, disc and bone pain. It is our most popular product. We can further customize the combination when needed in order to meet the needs of nearly every patient.

Common Musculoskeletal Pain Conditions

- Back Pain
- Neck Pain
- Tendonitis
- Myalgia
- Stress Fractures

**Any pain affecting muscles, tendons, ligaments and bones.

Ketamine acts peripherally to antagonize NMDA receptors as well as provide local anesthesia.

Flurbiprofen is an anti-inflammatory (NSAID). NSAIDs have long been used for chronic and acute musculoskeletal pain. Studies have shown higher levels reaching effected tissue when applied topically versus orally, resulting in greater local relief of symptoms.

Gabapentin is used to treat neuropathic hyperexcitability at the pain site.

Baclofen and Cyclobenzaprine are muscle relaxers that when used topically are highly effective in muscle tissue at the site of pain, allowing for effective dosing with minimal systemic absorption that could cause drowsiness if taken orally.


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Nerve pain is caused by lesions or deformities of the nerve. Symptoms may include burning, tingling, numbness, and shocks of electricity. These symptoms can drastically affect a person’s quality of life. Studies have shown that people with nerve pain have the highest rates of sleep problems, anxiety, and depression.

Treating nerve pain can sometimes be difficult. Oral medications, although effective, have many undesirable side effects. Topical creams for nerve pain can drastically reduce those negative effects by providing relief to the nerves located at the site of the pain while keeping systemic absorption to a minimum. Delivering the right medication to the right trigger point can decrease the amount of medication the patient uses.

Atlantic Pharmacy can combine the right medications into a topically applied cream that will treat the specific triggers that cause neuropathic pain. Our neuro-pain cream can be customized to meet an individual patient's needs while drastically improving compliance and efficacy.

**Ketamine** acts as an NMDA antagonist and is used as an anesthetic, while **Gabapentin**, a glutamate antagonist, has been used for neuropathy widespread. Together they mitigate glutaminergic calcium influx more effectively than either agent alone.

**Clonidine** provides analgesic affects but is limited orally by its effects on blood pressure. Topically it also potentiates the effects of other anesthetics in the formula.

**Amitriptyline** interferes with the way the nerve impulses are transmitted, reducing pain sensation.

**Mefenamic Acid** is an NSAID found to help reduce nerve pain while **Bupivacaine** is used as a local anaesthetic.

**Common Types of Neuropathic Pain**

- Fibromyalgia
- Sciatica
- Diabetic Neuropathy
- Chemo-Induced Neuropathy
- Shingles
- HIV-induced Neuropathy
- Neuropathy from Injury

Vascular pain usually occurs in the peripheral extremities such as arms, calves, legs, etc. Signs and symptoms include leg pain when walking, burning, cramping, numbness, or weakness. Vascular pain is caused by fatty build up in the arteries which causes the smooth muscle on the interior walls of the arteries to “stiffen” or harden.

Oral medications, procedures and exercise have all shown some benefit in relieving vascular pain but are not always an option for every patient who suffers from vascular pain. Using a topical cream may allow these patients an alternative to traditional treatments. Compounding specific ingredients that work together to target the specific causes of the pain at the actual site of the pain can provide patients with relief they have not been able to find in current treatment options. Although the actual cause of the pain, the fatty buildup in the arteries, cannot be treated with a topical pain cream, giving some relief may allow the patient to walk farther and longer. Walking as exercise has been proven to help with vascular pain; however it is often avoided if a patient fears that walking may actually cause them pain.

Although vascular pain is difficult to treat, we believe that a topical cream from Atlantic Pharmacy can help your patients.

*Nifedipine* works locally in the tissues to dilate capilaries and relax smooth muscle.

*Clonidine* provides analgesic effects and potentiates the effects of other anesthetics in the formula.

*Ketamine* provide analgesic effects and works as a local anaesthetic. It has been used intravenously to prevent vascular pain caused by other agents.

*Gabapentin* helps to reduce any underlying neuropathic pain that commonly accompanies vascular pain.

*Flubiprofen* reduces inflammation in the surrounding tissues and aids in reducing the inflammatory response.

*Bupivacaine* is used as a local anaesthetic.


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Gout is a condition that causes pain and discomfort in nearly 8 million Americans. Men are affected more than women due to higher uric acid levels in the blood. The pain caused from an acute gout “attack”, also known as gouty arthritis, is caused by a deposition of sodium urate crystals in connective tissue and articular cartilage around a joint or joints. This deposition causes extreme inflammation in the joint and surrounding tissues.

NSAIDs and steroids have long been known to be highly effective at treating gout related pain and inflammation; however, their dangerous side effects include gastrointestinal discomfort, bleeding and cardiovascular events. Topical use of creams for pain not only drastically reduce these side effects, it allows for continued high does use as needed.

Atlantic Pharmacy can provide a gout pain cream that can be individualized to a patient’s needs.

Indomethacin and Flurbiprofen, although they do have certain difference, are both NSAIDs. NSAIDs have long been known to be used for treating gout orally. Topical formulations decrease the risk for side effects while allowing for higher percentage of active drug to reach the exact site where the tissue and joints are affected.

Mometasone is a glucocorticosteroid used to reduce inflammation as well.

Bupivacaine is used as a local anaesthetic.

Gout Pain Symptoms

- Intense Joint Pain
- Lingering Discomfort
- Swelling
- Redness

Plantar Fibromatosis is a fibrotic tissue disorder which is characterized by the presence of excess collagen or fibrotic tissue. The most common symptoms of plantar fibromatosis are the dense, firm nodules that can be felt just under the skin on the bottom of the foot. The nodules are painful with standing or walking and do not resolve on their own. Cells known as fibroblasts are responsible for the production of the primary components of plantar fibromas such as collagen, fibronectin and glycosaminoglycans. Research has shown that the process by which these components are released out of the fibroblast requires calcium. There are several mechanisms topical treatments target to treat plantar fibromatosis. The first allows for the progression of the condition to be slowed or stopped and the second for the fibroma to actually be reduced. The remodeling of this tissue allows for the discomfort and the fibroma to be reduced or eliminated.

Topical creams allow for noninvasive treatment, decreased systemic effects, and consistent, constant treatment at the direct site of the fibroma.

**Verapamil** is a calcium channel blocker. Research has demonstrated that it has the ability to increase the activity of collagenase, which enhances the remodeling of scar (fibrotic) tissue, increase procollagenase activity, and therefore increase collagen breakdown. Topically, verapamil has the ability to remodel an already formed and stable fibroma into more healthy tissue.

**Diclofenac** is an anti-inflammatory (NSAID). NSAIDs have been shown useful in treating plantar fibromatosis but are often limited on the duration of use due to gastrointestinal or cardiovascular effects. Topical formulation allows for consistent use without these concerns.

**Baclofen**, a GABA derivative, is used to reduce spasms and cramping.

**Bupivacaine** acts as a local anaesthetic.

**Mometasone** is a glucocorticosteroid used to reduce inflammation. Steroids have been used in various formulations and vehicles to treat plantar fibromatosis.


Atlantic Compounding Pharmacy specializes in preparing customized pain management preparations to meet individual patient needs. Since each prescription is custom made and tailored to each individual's needs, there is a great deal of flexibility in the types and amounts of medicine that can be administered to the patient. Since compounding facilitates treatment by many different modes of administration, we utilize the following deliveries:

- Topical Transdermal Creams and Gels
- Inhalation and Intranasal Pain Solutions
- Sterile Injectableable
  - Intrathecal Injections
  - Intramuscular Injections

There are multiple medications that have shown promise in treating chronic pain and neuropathy, and it is possible to use two or more at the same time. Since the medications have different mechanisms of action, a synergistic effect results when they are used in combination. Advantages in dosing, safety and effectiveness, in addition to the ability to tailor each medication to every patient, makes this an attractive alternative for many physicians and their patients.

Topical pain relievers in a specially prepared base that combines several medications into a single topical gel can eliminate the use of multiple products. Commercially available medications often do not provide appropriate dosage and strength required due to patient's variability in size, symptoms and pain tolerances. Compounding is the vehicle a physician and pharmacist can use to provide a medication to the exact specifications needed by the patient. Transdermal gels are capable of supporting multiple classes of drugs with enhancing penetration and delivery of the drug entities across the skin barrier for a non-invasive, convenient and minimal side effects therapy.

One of the difficulties with transdermal delivery of drugs is finding a vehicle that is able to solubilize drugs and that still possesses that capacity to allow transdermal delivery. The advantage of current PLO gel is in its properties to facilitate maximal stabilization and delivery of the drug through the skin. Current PLO gels contain lecithin as a constituent. Lecithin is thought to disorganize the surface structure of skin while still leaving it intact and unharmed. Its presence also increases the drug's solubility in the solvents. The use of lecithin and the puritanic constituent act as surface-active agents to aid in the extraction of lipids from the stratum corneum. This is important because the stratum corneum acts as the principle barrier to the percutaneous penetration and subsequent absorption of topically applied drugs. The water in the PLO gel acts as a penetration enhancer. PLO gels have evolved from the sticky base to modified formulations of Lipoderm. We specialize in working with orthopedic surgeons and pain management clinics.

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Topical creams give prescribers the opportunity to treat patients right at the site of their pain providing high local concentrations resulting in a greater analgesic effect. All the while eliminating possible side effects associated with traditional oral and injected medications.

- Superior therapeutic outcomes through locally enhanced topical delivery
- Improved patient compliance
- Fewer overall side effects than typically found with oral medication
- Reduced risk of dependency/abuse
- Concentration of therapeutic levels of medication in tissues while maintaining low serum concentration
- Reduced systemic toxicity
- Avoidance of first-pass metabolism and GI upsets
- Decreased risk of drug-to-drug interactions
Back and shoulder problems are treated with a simple Ketoprofen 10% cream or in combinations with other agents. Orthopedic specialists like the following:

**Anti Inflammatory**
Ketoprofen 20%, Baclofen 2%, Cyclobenzaprine 2%, Gabapentin 6%, Lidocaine 2.5%, (KBCGL) in Lipoderm Base Driver, (TMJ, Musculoskeletal Pain/Inflammation)

**Anti Inflammatory Plus**
Tramadol 3%, Ketoprofen 10%, Cyclobenzaprine 2%, Lidocaine 5%, Baclofen 2% in Lipoderm Base Driver, (Musculoskeletal Pain/Inflammation)

**Anti Inflammatory Plus 10**
Ketamine 10%, Baclofen 2%, Cyclobenzaprine 2%, Ketoprofen 10%, Gabapentin 6%, Lidocaine 2% (KBCKGL) in Lipoderm Base Driver, (Musculoskeletal Pain/Inflammation)

**Treatment for Shingles**
Back and shingles:
Lidocaine 5% + Ketoprofen 20% + Ketamine 2% + Carbamazepine 5% + 0.2% 2 Deoxy-D-Glucose + 3% Acyclovir

| Gel | 60gm | Apply 2 to 3 times a day |

**Diabetic Neuropathy**

Diabetic Neuropathy\Neuropathic pain/RSD:
Neuropathic agents applied transdermally to treat pain avoid systemic side effects, efficiently deliver the drug to the site of application and may also be able to administer multiple drugs in one dosage form. Agents used to increase the circulation are:
- Nifedipine transdermal
- Pentoxifylline transdermal
- Alpha lipoic acid: Modulates the nitric oxide within the cell, stimulates the glucose uptake from freradicals and also helps prevent diabetic neuropathy by decreasing lipid peroxidation of nerve tissue.

**Preferred Formulas Available**

**Neurogenic**
Diclofenac 3%, Baclofen 2%, Cyclobenzaprine 2%, Gabapentin 6%, Lidocaine 2% (DBCGL) in Lipoderm Base Driver, (Musculoskeletal Pain/Inflammation)

**Neurogenic Plus 10**
Ketamine 10%, Baclofen 2%, Cyclobenzaprine 2%, Diclofenac 3%, Gabapentin 6%, Lidocaine 2% (KBCDGL) Lipoderm Base Driver, (Musculoskeletal Pain/Inflammation)

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### Radiation Burns

- **Ketoprofen 2%, Lidocaine 2%, Misaprostol 0.0024%, Phenytoin 2%, Aloe Vera 0.2% Topical Cream**
- **Allantoin 2%, Vitamin D3 100 IU/Gm, Aloe Vera 0.5% Compound Topical Cream**

### Bone Pain

- **Ibuprofen 400 mg Base MBK Suppository (Pink Mold)**
- **Ibuprofen 600 mg Base MBK Suppository (Large Shell Mold)**
- **Ibuprofen 800 mg Base MBK Suppository (Large Shell Mold)**
- **Ibuprofen 800 mg/5 mL Oral Suspension**

### Amputation Pain

- **Ketoprofen 20%, Ibuprofen 2%, Ketamine 2%, Clonidine 0.2%, Amitriptyline HCl 2%, Gualfenesin 2% Topical Lipoderm®**
- **Ketoprofen 10%, Gualfenesin 10%, Capsaicin 0.025%, Lidocaine 2%, Amitriptyline HCl 2% Topical Lipoderm®**
- **Baclofen 5%, Ketoprofen 10%, Lidocaine 5%, Gabapentin 5% Topical Lipoderm®**
- **Ketamine HCl 5%, Gabapentin 10%, Clonidine HCl 0.2%, Baclofen 2% Topical Lipoderm®**
- **Ketoprofen 5%, Cyclobenzaprine HCl 0.5%, Lidocaine HCl 5%, Bupivacaine HCl 1% Topical Lipoderm®**
### Inflammation

- Ketoprofen 10% / Pentoxifylline 5% Gel
- Piroxicam 2% / Pentoxifylline 5% Gel
- Ketoprofen 10% / Lidocaine 5% / Baclofen 10% / Pentoxifylline 5% Gel
- Ketoprofen 5% / Cyclobenzaprine 0.5% / Guaifenesin 10% / Diphenhydramine 10% Gel

#### Inflammatory Pain from Injury

- Piroxicain 5% in Lipoderm® Transdermal Gel
- Piroxicain 2% Topical Anhydrous Lipoderm®
- Diclofenac Sodium 10% in Lipoderm® Transdermal Gel
- Ketoprofen 10% Topical Lipoderm® (Pentylene Glycol)
- Ibuprofen 10% in Lipoderm® Transdermal Gel

### Other Conditions

#### Rheumatoid Arthritis / Join Pain

- Ketoprofen 10% Topical Lipoderm®
- Ketoprofen 20% in Lipoderm® Transdermal Gel

#### Soft Tissue Inflammation

- Ibuprofen 20% in Lipoderm® Transdermal Gel
- Diclofenac Sodium 10% in Lipoderm® Transdermal Gel
- Ibuprofen 20%, Piroxicam 1% Topical Lipoderm®

#### Plantar Fascitis

- Piroxicam 2% Topical Anhydrous Lipoderm®
- Piroxicam 5% in Lipoderm® Transdermal Gel

#### General Pain

- Ketoprofen 10%, Cyclobenzaprine HCl 2% Topical Lipoderm®
- Ibuprofen 20%, Piroxicam 1%, Cyclobenzaprine HCl 1% Topical Lipoderm®

#### Migraines

- Indomethacin 10% in Lipoderm® Transdermal Gel

#### Muscle Cramps for Athletes

- Guaifenesin (2% & 10%) in Lipoderm® Base

### Anesthetics Before Laser Procedure

- Lidocaine 6%, Tetracaine 6%, Benzocaine 4% Topical Gel

### Colitis

- Sodium Acetate 60 mM, Sodium Propionate 30 mM, Sodium Butyrate 40 mM Enema (Short-Chain Fatty Acid Enema)

### Burning Mouth Syndrome

- Capsaicin 0.25 mg Base A Troche
- Salicylic Acid 0.3% Mouthwash (Aslo referred to as BMS Mouthwash)
- Salicylic Acid 0.3% Mouthwash, Alternate

### Mouth Pain

- Misoprostol 0.0024%, Diphenhydramine HCl 0.1%, Compound Oral Rinse (Also referred to as Radiation Burn Mouth Rinse)

### Smooth Muscle Spasm

- Belladonna Extract 15 mg, MOphrine Sulfate 7.5 mg Base MBK Suppository (Blue Mold) (B & O Suppository has been unavailable)

### Iontophoresis

- Acetic Acid 2% (W/N) Iontophoresis Solution (PF)
- Lidocaine HCl 4% Iontophoresis Solution (PF)

### Chronic Obstructive Pulmonary Disease (COPD)

- Glutathione 60 mg/mL Inhalation Solution (PF)

### Multiple Sclerosis

- Naltrexone HCl 0.5 mg Capsules Size #1

Also available in various strengths
Trigeminal Neuralgia

Low Dose Naltrexone (LDN)

Recent clinical and preclinical studies have demonstrated that co-treatments with extremely low doses of opioid receptor antagonists (i.e. naltrexone) can markedly enhance the efficacy and specificity of morphine and related opioid analgesics, and simultaneously attenuate opioid tolerance, dependence, and other adverse side-effects such as nausea, vomiting, and pruritus.

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Topical GTN

Dextromethorphan is an NMDA (N-methyl-D-aspartate) receptor antagonist. Ongoing research indicates that drugs in this class can block pain transmission in dorsal horn spinal neurons and reduce nociception. However, most commercially available dextromethorphan preparations have drawbacks to use for pain management. Dextromethorphan frequently combined in cough/cold preparations with various antihistamines, decongestants, expectorants, or analgesics. Decongestants may raise concerns for hypertensive patients, and antihistamines may cause problems for those with BPH or glaucoma. Liquid "cough syrups" often contain sugar and/or alcohol, and have an unpleasant taste. Our compounding pharmacy can prepare a dosage form containing dextromethorphan as the only active ingredient in the most appropriate dose and dosage form for each patient - including capsules or a pleasantly-flavored liquid.

Nasal Sprays

For migraine sufferers, pain medication may be administered through nasal sprays, flavored troches, or lozenges. These dosage forms bypass the gastrointestinal tract, providing optimal results with less GI irritation.

<table>
<thead>
<tr>
<th>Drug</th>
<th>Form</th>
</tr>
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<tbody>
<tr>
<td>Dexamethasone</td>
<td>Spray</td>
</tr>
<tr>
<td>Lidocaine/Phenylephrine</td>
<td>Spray</td>
</tr>
</tbody>
</table>

Anti Inflammatory

Keroprofen 20%, Baclofen 2%, Cyclobenzaprine 2%, Gabapentin 6%, Lidocaine 2.5%, (KBCGL) in Lipoderm Base Driver,(TMJ, Musculoskeletal Pain/Inflammation)
Migraine ranks in the top 20 of the world's most disabling medical illnesses with more than 10 percent of the population suffering from migraine, many of which are reoccurring. Migraine symptoms include severe pain in one or both sides of the head, dizziness, nausea, vomiting, visual disturbances, and sensitivity to light and sound. There is thought that migraines are linked to the dilation and constriction of blood vessels in the head, as well as possible neurological abnormalities in the brain. Nociceptive inputs to the central pain system have also been considered a source of pain.

Most of the therapeutic agents recommended to treat migraine attacks are given through the oral route. Oral route administration has disadvantages including first pass metabolism, liver toxicity, etc. Side effects of these drugs when taken by mouth often cause additional gastrointestinal distress to an already suffering patient.

Transdermal delivery systems for migraine treatment would be desirable for many patients, especially those who experience gastrointestinal discomforts. Systemic results are accomplished by placing active medications in a PLO gel that is enhanced with agents that will allow adequate penetration to achieve the desired result.

**Sumatriptan** is a 5-hydroxytryptamine 1D (5-HT 1D) receptor antagonist and the first of the triptan family of drugs to be used in treating migraine. Sumatriptan appears to act selectively on the blood vessels located within the carotid circulation.

**Ketamine** is an NMDA receptor antagonist and works in a number of different ways in the brain. Studies have shown it to be beneficial in treating neuropathic pain including that related to migraine, specifically the aura that is associated with an acute attack.

**Flurbiprofen** is an anti-inflammatory agent. This class of drugs have been used successfully in migraine treatment. They act to alleviate neurogenic inflammation and block prostanoid receptors to limit the inflammatory pain response.

**Gabapentin** and **Amitrityline** are frequently used to aid in the prevention of migraine. Use in an acute attack may help prevent the attack from returning as well as help decrease the severity of symptoms.

**Ondansetron** is used to treat the nausea and vomiting that is often associated with migraine attack.

AFridi, SK. A Randomized Controlled Trial of Intranasal Ketamine in Migraine with Prolonged Aura. Neurology 2013 Feb 12;80(7):642-7.

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<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acyclovir</td>
<td>Used to decrease pain and speed the healing of sores or blisters in people who have varicella (chickenpox), herpes zoster (shingles) and first-time or repeat outbreaks of genital herpes. Will not cure genital herpes and may not stop the spread of genital herpes to other people.</td>
</tr>
<tr>
<td>Amantadine</td>
<td>An antiviral medication used to treat and to prevent influenza A. There may be some flu seasons during which amantadine is not recommended because certain flu strains may be resistant to this drug. Also used to treat Parkinson’s disease and &quot;Parkinson-like&quot; symptoms such as stiffness and shaking that may be caused by the use of certain drugs.</td>
</tr>
<tr>
<td>Amitriptyline</td>
<td>A tricyclic antidepressant that inhibits the membrane pump mechanism responsible for uptake of norepinephrine and serotonin. Pharmacologically this action may potentiate or prolong neuronal activity since reuptake of these biogenic amines is important physiologically in terminating transmitting activity.</td>
</tr>
<tr>
<td>Baclofen</td>
<td>A muscle relaxer and an antispastic agent. Used to treat muscle symptoms caused by multiple sclerosis, including spasm, pain, and stiffness.</td>
</tr>
<tr>
<td>Bupivacaine</td>
<td>A local anesthetic with double the duration of lidocaine. It works by acting as a sodium channel blocker, working to prevent ectopic neuropathic impulses. It also has some anti-inflammatory properties.</td>
</tr>
<tr>
<td>Camphor</td>
<td>Camphor is used topically to increase blood flow and as a &quot;counterirritant,&quot; which reduces pain and swelling by causing irritation. Camphor is used topically to relieve pain and reduce itching as well as treating fungal infections of the toenail, warts, cold sores, hemorrhoids, and osteoarthritis. Specifically, the FDA has approved camphor for topical use as a pain reliever and anesthetic in concentrations of 3% to 11%.</td>
</tr>
<tr>
<td>Capsaicin</td>
<td>Used for temporary relief of muscle or joint pain caused by strains, sprains, arthritis, bruising, or backaches. Capsaicin topical is also used to treat nerve pain (neuralgia) in people who have had herpes zoster (shingles).</td>
</tr>
<tr>
<td>Clonidine</td>
<td>Used to lower blood pressure by decreasing the levels of certain chemicals in the blood. Clonidine transdermal skin patches are used to treat hypertension. They are sometimes used together with other blood pressure medications.</td>
</tr>
<tr>
<td>Colchicine</td>
<td>A beta-tubulin inhibitor developed to treat or prevent attacks of gout. Colchicine affects the way the body responds to uric acid crystals, which reduces swelling and pain.</td>
</tr>
<tr>
<td>Cyclobenzaprine</td>
<td>A muscle relaxant that works by blocking nerve impulses (or pain sensations) that are sent to the brain. Cyclobenzaprine is used together with rest and physical therapy to treat skeletal muscle conditions such as pain or injury.</td>
</tr>
<tr>
<td>Diclofenac</td>
<td>A non steroidal anti inflammatory drug (NSAID) used to treat pain or inflammation caused by arthritis or ankylosing spondylitis. Also used to treat migraine headaches. Do not use to treat a cluster headache. Will only treat a headache that has already begun. Will not prevent headaches or reduce the number of attacks.</td>
</tr>
<tr>
<td>Flurbiprofen</td>
<td>Nonsteroidal anti-inflammatory drug (NSAID). As a group, NSAIDs are non-steroidal anti-inflammatories of mild to moderate pain of many causes, including injury, menstrual cramps, arthritis, and other musculoskeletal conditions. Flurbiprofen has analgesic, anti-inflammatory and antipyretic action. It acts by inhibiting Prostaglandin (PG) synthesis and their release at the site of injury.</td>
</tr>
<tr>
<td>Gabapentin</td>
<td>An anti-epileptic medication (anticonvulsant). Used alone or in combination with other medications to treat epileptic seizures in adults and children 12+ years old. Also used with other medications to treat partial seizures in children 3 to 12 and used in adults to treat nerve pain caused by the herpes virus and herpes zoster (shingles), and to treat restless leg syndrome (RLS).</td>
</tr>
<tr>
<td>Ibufrofen</td>
<td>A non steroidal anti inflammatory drug (NSAID) that works by reducing hormones that cause inflammation and pain in the body. Used to treat pain or inflammation caused by conditions such as arthritis, gout, ankylosing spondylitis, bursitis or tendinitis.</td>
</tr>
<tr>
<td>Ketamine</td>
<td>Ketamine is an anesthetic medication. Used as a general anesthetic to prevent pain and discomfort during certain medical tests or procedures or after minor surgery.</td>
</tr>
<tr>
<td>Ketorolac</td>
<td>A non steroidal anti inflammatory drug (NSAID) that works by reducing hormones that cause inflammation and pain in the body. Used short-term – for 5 days or less – to treat moderate to severe pain.</td>
</tr>
<tr>
<td>Lidocaine</td>
<td>A local anesthetic. Lidocaine topical is used to reduce pain or discomfort caused by skin irritations such as sunburn, insect bites, poison ivy, poison oak, poison sumac, and minor cuts, scrapes, hemorrhoids and burns.</td>
</tr>
<tr>
<td>Magnesium oxide</td>
<td>Magnesium is a naturally occurring mineral that is important for many systems in the body, especially the muscles and nerves. Used as a supplement to maintain adequate magnesium in the body.</td>
</tr>
<tr>
<td>Mefenamic Acid</td>
<td>A nonsteroidal anti-inflammatory drug (NSAID) that works by reducing hormones that cause inflammation and pain in the body. Used to treat pain or inflammation caused by arthritis. Also used to treat menstrual pain.</td>
</tr>
<tr>
<td>Menthol</td>
<td>Is classified as a calcium channel blocker. After topical application, it causes a feeling of coolness due to stimulation of cold-sensitive TRPM8 receptors, by inhibiting Ca+ currents of neuronal membranes. It may also yield analgesic properties via kappa opioid receptor agonism.</td>
</tr>
<tr>
<td>Nifedipine</td>
<td>A calcium channel blocker that works by relaxing the muscles of the heart and blood vessels. Used to treat hypertension (high blood pressure) and angina (chest pain).</td>
</tr>
<tr>
<td>Orphenadrine</td>
<td>A muscle relaxant that works by blocking nerve impulses or pain sensations that are sent to the brain. Used together with rest and physical therapy to treat skeletal muscle conditions.</td>
</tr>
<tr>
<td>Pentoxyfylline</td>
<td>Xanthine derivative. It belongs to a group of vascular drugs which improve peripheral blood flow. As with other xanthine derivatives, it relaxes certain smooth muscles including those of the peripheral vessels, thus causing vasodilatation preventing spasm.</td>
</tr>
<tr>
<td>Tramadol</td>
<td>A mild opioid agonist and norepinephrine and serotonin reuptake inhibitor, as analgesic proposed for the treatment of moderate to severe pain and acute musculoskeletal pain. It is also used in combination with NSAID therapy in patients with osteoarthritis.</td>
</tr>
<tr>
<td>Versamyl</td>
<td>A calcium channel blocker that works by relaxing the muscles of the heart and blood vessels. Used to treat hypertension (high blood), angina (chest pain) and certain heart rhythm disorders.</td>
</tr>
</tbody>
</table>

Questions? We’re here to help!  
954-366-6519
Compounding is what we call the “art” of pharmacy, providing solutions to address the specific and unique needs of individual patients. This practice dates back to the origin of pharmacy. Although with the advent of mass drug manufacturing in the 1950s, compoundings presence quickly declined. As the role of a pharmacist shifted, from that of a preparer to that of dispenser of manufactured drug forms. Our team of licensed pharmacists, chemists and microbiologist combine this “art” with the latest medical knowledge and state of the art equipment to completely customize FDA approved ingredients into specialized pharmaceutical compounds. These pharmaceutical solutions greatly enhance patient care in individuals who are not receiving adequate treatment with the commercially manufactured options.

Patients and prescribers have turned to our compounding professionals to provide “Just what the Doctor ordered” medications that address the continuously growing problems that occur where commercial manufacturers fail. All of our products can be prepared “patient specific” to include the most appropriate concentrations and dosage form. In addition, these medications may be compounded to reduce the likelihood of allergies caused by additives such as sugar, alcohol, preservatives, dyes and fragrances.

The efficacy of any compounded medication is directly related to the method in which it was prepared. In this regard, compounding is not just diluting existing medications, or mixing powders with bases. Our team of professionals considers all physical and chemical properties of ingredients in order to facilitate the safe use of these medications, concerning proper dosing, drug interactions, stability and adverse effects.

To this end, our team of dedicated professionals are focused on delivering the most effective compounds possible, to meet patients’ and healthcare professionals’ needs.
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- Pain Management
- Sexual Intimacy

Contact our Pharmacists for expert advice on compounding! 954-366-6519