PHARMACOGENOMICS TEST FOR BETTER PAIN MANAGEMENT

PGxOne™ Plus is a pharmacogenomics test that can help predict how a patient will respond to drug therapy based on individual genetic makeup.

- Genetic variants affect drug absorption, metabolism and activity. Results guide effective treatment decisions, potentially reducing adverse drug events (ADEs) and trial-and-error drug selection and dosing.
- Provides recommendations for over 300 commercial drugs, with extensive coverage of pain management.
- Cutting-edge Next Generation Sequencing (NGS) technology enables comprehensive coverage of ~200 genetic variants in 50 genes.
- Delivers medically actionable recommendations in an easy to interpret report.

Considered for patients diagnosed with chronic and acute pain, including the following:

- Ankylosing spondylitis
- Breakthrough pain
- Chronic pain
- Dysmenorrhea
- Fibromyalgia
- Gout
- Headache
- Knee injury
- Migraine
- Multiple sclerosis
- Muscle spasm
- Neuropathic pain
- Osteoarthritis
- Rheumatoid arthritis
- Shingles
- Inflammation

Panel Genes Related to Pain Management Drugs

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<tr>
<th>CYP1A2</th>
<th>CYP2B6</th>
<th>CYP2C19</th>
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<tr>
<td>CYP2C9</td>
<td>ABCB1</td>
<td>CYP2D6</td>
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<td>CYP3A4</td>
<td>DRD2</td>
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Recommendations for the following pain management medications:

- Alfentanil (Alfenta®)
- Buprenorphine (Subutex®)
- Carisoprodol (Soma®)
- Celecoxib (Celebrex®)
- Codeine (Codeine®)
- Codeine/Acetaminophen (Tylenol #3, #4®)
- Cyclobenzaprine (Flexeril®)
- Diclofenac (Voltaren XR®)
- Fentanyl (Duragesic®)
- Hydrocodone/acetaminophen (Vicodin®)
- Hydromorphone (Dilaudid®)
- Ibuprofen (Advil®)
- Meloxicam (Mobic®)
- Methadone (Methadose®)
- Morphine (MS Contin®)
- Morphine/Naltrexone (Embeda®)
- Naproxen (Aleve®)
- Oxycodone (Oxycontin®)
- Oxycodone/Acetaminophen (Percocet®)
- Oxycodone/Naloxone (Targiniq ER®)
- Sufentanil (Sufenta®)
- Tizanidine (Zanaflex®)
- Tramadol (Ultram®)
- Tramadol hydrochloride/Acetaminophen (Ultracet®)
- Sumatriptan/Naproxen (Treximet®)
- Eletriptan (Relpax®)
- Zolmitriptan (Zomig®)
- Piroxicam (Feldene®)
- Methylnprednisolone (Medrol®)
- Prednisolone (Orapred®)
- Prednisone (Deltasone®)

Associated drugs carry pharmacogenomics recommendations put forth by the Food and Drug Administration (FDA), European Medicines Agency (EMA), Clinical Pharmacogenetics Implementation Consortium (CPIC), Dutch Pharmacogenetics Working Group (DPWG), Pharmaceuticals and Medical Devices Agency, Japan (PMDA), and/or related pharmacogenomics publications.
PGxOne Plus is the most comprehensive, commercially available pharmacogenomics test covering more genes than competitors.

### Target Genes and Select Therapeutic Areas

- **Genes**
  - 50

### Table of Genes and Genomic Regions

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<th>Genomic Region</th>
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### Genomic Regions

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