Mo Bureau of Narcotics and Dangerous Drugs

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PRESCRIPTION DRUG ABUSE IN MISSOURI

Compass Prevention
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National Drug and Alcohol Fact Week
Most Abused Rx Medications

- Stimulants such as Dexedrine, Adderall, Ritalin, & Concerta
- Sedatives, anxiolytics, and other depressants such as Xanax & Valium
- Pain medications such as Vicodin & Oxycontin (Opioids)

MO Div. of Alcohol and Drug Abuse, Treatment Admissions 2012 (DMH)

- Xanax 39%
- Oxycontin 24%
- Vicodin 23%
- All Others 14%
- Others 14%
MISSOURI DRUG ABUSE FACTS

- Missouri has the **Seventh** Highest Drug Overdose Mortality Rate in the United States (17 per 100,000; Prescription Drug Abuse: Strategies to Stop the Epidemic)


- More Rx drug abuse admissions for treatment are women (46%), compared to non-Rx drug abuse admissions (31%)

![Deaths from Opioid Pain Relievers Exceed Those from All Illegal Drugs](chart.png)

Missouri findings from the Trust for America's Health (TFAH) report include:

<table>
<thead>
<tr>
<th>No.</th>
<th>Indicator</th>
<th>Number of States Receiving Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Existence of Prescription Drug Monitoring Program (PDMP):</strong></td>
<td>Has an active program</td>
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<td></td>
<td>49 states do; MO FAILED</td>
<td>49 states do; MO FAILED</td>
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<tr>
<td>2</td>
<td><strong>PDMP:</strong> Requires mandatory utilization by prescribers</td>
<td>16 states do; MO FAILED</td>
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<td>16 states do; MO FAILED</td>
<td>16 states do; MO FAILED</td>
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<td>3</td>
<td><strong>Doctor Shopping Laws:</strong> Has a law specifying that patients are prohibited from withholding information about prior prescriptions from their healthcare provider</td>
<td>50 states do and D.C.</td>
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<td></td>
<td>YEAH MO</td>
<td>50 states do and D.C.</td>
</tr>
<tr>
<td>4</td>
<td><strong>Support for Substance Abuse Treatment Services:</strong> Participating in Medicaid Expansion, which helps expand coverage of substance abuse services and treatment</td>
<td>24 states do and D.C., MO FAILED</td>
</tr>
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<td></td>
<td>22 states do, MO FAILED</td>
<td>22 states do, MO FAILED</td>
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<tr>
<td>5</td>
<td><strong>Prescriber Education Required or Recommended</strong></td>
<td>22 states do, MO FAILED</td>
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<tr>
<td></td>
<td>22 states do, MO FAILED</td>
<td>22 states do, MO FAILED</td>
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<tr>
<td>6</td>
<td><strong>Good Samaritan Laws:</strong> Has a law to provide a degree of immunity or mitigation of sentencing for individuals seeking to help themselves or others experiencing an OD</td>
<td>17 states do and D.C., MO FAILED</td>
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<td>17 states do and D.C., MO FAILED</td>
<td>17 states do and D.C., MO FAILED</td>
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<td>7</td>
<td><strong>Rescue Drug Laws:</strong> Has a law to expand access to, and use of naloxone, a prescription drug that can help counteract an overdose, by laypeople</td>
<td>17 states do and D.C., MO FAILED</td>
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<td>17 states do and D.C., MO FAILED</td>
<td>17 states do and D.C., MO FAILED</td>
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<td>8</td>
<td><strong>Physical Exam Requirement:</strong> Has a law requiring healthcare provider to physically examine patients or have a bona fide patient-physician relationship before prescribing a controlled substance</td>
<td>44 states do and D.C.</td>
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<td></td>
<td>YEAH MO</td>
<td>44 states do and D.C.</td>
</tr>
<tr>
<td>9</td>
<td><strong>ID Requirement:</strong> Has a law requiring or permitting a pharmacist to require an ID prior to dispensing a controlled substance</td>
<td>32 states do; MO FAILED</td>
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<td></td>
<td>32 states do; MO FAILED</td>
<td>32 states do; MO FAILED</td>
</tr>
<tr>
<td>10</td>
<td><strong>Lock-In Programs:</strong> Has a pharmacy lock-in program under the state's Medicaid plan, where individuals suspected of misusing controlled substances must use a single prescriber and pharmacy</td>
<td>46 states do and D.C.</td>
</tr>
<tr>
<td></td>
<td>YEAH MO</td>
<td>46 states do and D.C.</td>
</tr>
</tbody>
</table>

**Total for MO**

Three

[www.healthyamericans.org](http://www.healthyamericans.org)
Brain’s Reward (Addiction) Pathway

Opiate Receptors

prefrontal cortex

nucleus accumbens

VTA
Brain Chemistry of Addiction

Brain Chemistry of Opioids

Addictive Drug

Normal

Presynaptic neuron

Addictive Drug

Dopamine

Dopamine transporter

Dopamine receptor

Postsynaptic neuron

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Opioid

Dopamine

GABA

Opiate receptor

Compass Prevention
DEADLY CYCLE

Dependence

Addiction

Tolerance

Withdrawal
DRUG ADMINISTRATION

- Heroin
- Rx Opioid

Diagram showing concentration of drug in brain over time after drug administration for different methods:
- Inhalation
- Injection
- Snorting/snuffing
- Ingestion
A TYPICAL ADDICTION FAMILY TREE

White: Healthy

Red: Addiction
Coughs & Cold OTC Medications:

- Dextromethorphan
- Triple Cs
- CCC
- Dex
- Robo
- Skittles
- Tussin

PCP
Angel Dust
Ketamine
• Ephedra plant
• Sympathomimetic
• Amphetamine

• CNS Stimulant, Insomnia
• Anxiety, Heart palpitations
• Hallucinations
• Psychosis
• Stroke

Allergy Meds: Pseudoephedrine
Sara, Alicia, & Nikki
Sara is my daughter
DETERRA DRUG DEACTIVATION SYSTEM
MISSOURI: BE ON ALERT!

Marijuana Laws by State

http://www.takepart.com/article/2014/03/05/marijuana-legalization-across-united-states

Major Highways

http://ops.fhwa.dot.gov/freight/freight_analysis/freight_story/major.htm