

## MRO/Toxicology Webinar

### Evidence for “Medical MJ”

OVERALL there is *relatively good evidence for use of MJ in:*

- Chronic Pain -Synergistic effect c opioids (Abrams 11')

Especially useful c Neuropathic Pain –Vaporized 1.29% THC  
+30% decrease in pain.

- Spasticity/ Spasm c MS / Spinal Cord Injury / etc
- Nausea–ie Chemo Drugs etc.

*For these conditions the effectiveness is moderate. For other conditions there is insufficient evidence –NAS 2017'*

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### Marijuana for Pain

Doctors can recommend MJ for their patients over opioids in New Mexico, New Jersey, New York and Pennsylvania.

“[C]annabis use, even among adults with moderate to severe pain, was associated with a substantially increased risk of nonmedical prescription opioid use....”

—The American Journal of Psychiatry (2017)

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### Various State Governments Approve MJ For:

MS	Seizures/Epilepsy	<b>Glaucoma</b>	PTSD
<b>Severe M. Spasm</b>	Hep C	Migraine	Any condition approved by physician
ALS	Crohn's Dz	Sickle Cell	Arnold – Chiari Malformation
Parkinson's	Spinal Cord Injury	Cerebral Palsy	Nail-Patella Syndrome
Cancer	Spasticity	Cystic Fibrosis	Myasthenia Gravis
HIV/AIDS	Alzheimer's agitation	Terminal Illness	Post-Concussion
<b>N/V c Chemo</b>	Tourette's Syndrome	Muscular Dystrophy	Any Condition
Cachexia	Ulcerative Colitis	Sjogren's Syndrome	Post-herpetic Neur.
<b>Anorexia</b>	<b>Peripheral Neuropathy</b>	Cirrhosis	Spinocerebellar Ataxia
<b>Severe Pain</b>	Any issue interfering c ADL	Autism	Tarlov Cyst
Chronic Pain	A Condition approved by HD	Lupus	Traumatic Brain Injury
Severe Nausea	Fibromyalgia	Causalgia	Spingomyelia
Severe Arthritis	Radiculopathy	Hydromyelia	Sleep Apnea
'Arthritis'	Psoriasis	"Diabetes"	<b>AND MANY MORE ...</b>

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Many Indications for Medical MJ, In Colorado:

- 1% -Glaucoma
- 3% -Cancer
- 2% -Other
- 94% -'Pain'

•The vast majority of Medical MJ users in the US are not seriously ill. Studies find <5% of card holders have CA, AIDS, MS or other serious illnesses. (Nunburg2011)

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