

The Mosaic Landscape of Prescription Stimulant Misuse and Abuse

Janetta L. Iwanicki, MD
Chief Scientific Officer
Rocky Mountain Poison & Drug Safety

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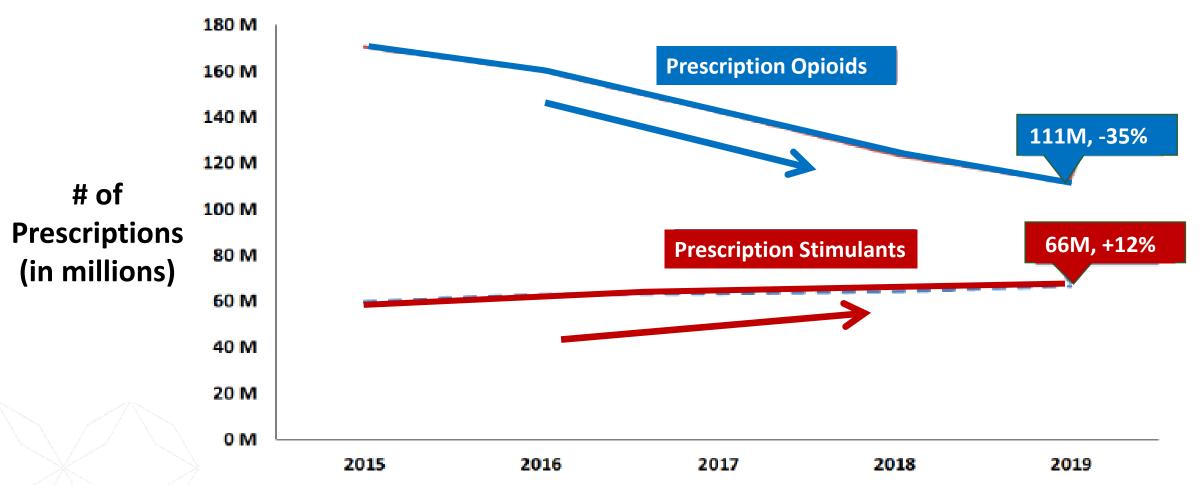
Conflict of Interest Statement

- RADARS System is the property of Denver Health and Hospital Authority, a political subdivision of the State of Colorado
- Many manufacturers of prescription opioids or stimulants as well as federal agencies subscribe to RADARS System. No company has special privileges.
- Subscribers receive information, but do not participate in developing the System, data collection, or analysis of the data. They do not have access to the raw data.
- Employees are prohibited from having personal financial relationships with any company
- Future work on this topic is funded by FDA BAA Grant 2020-2021 #145



Prescription Stimulants: Why Should We Care?

Increasing prescribing, even over past 5 years



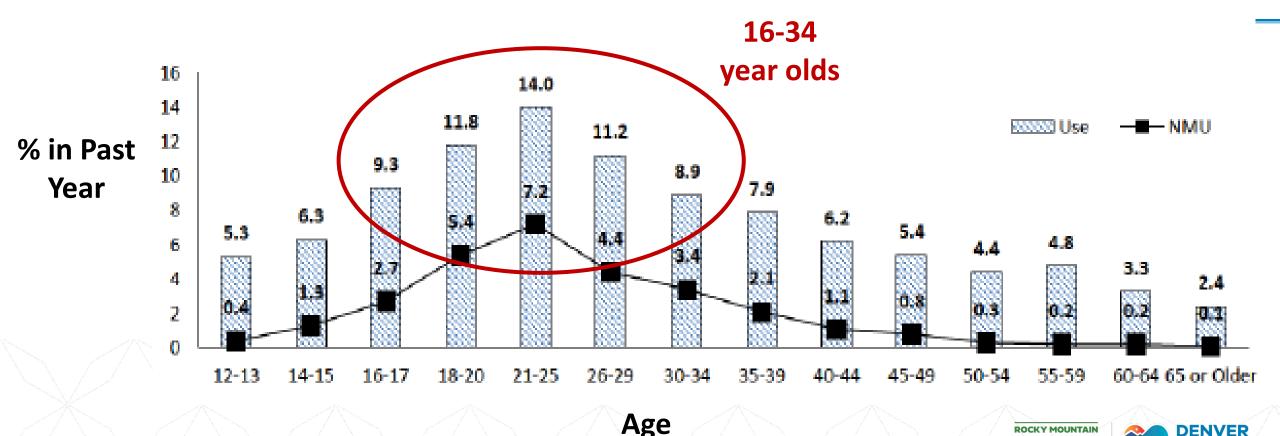
Source: FDA analysis of IQVIA National Prescription Audit 2019





Prescription Stimulants: Why Should We Care?

 Adolescent and young adult age groups most impacted by both use and non-medical use (NMU)

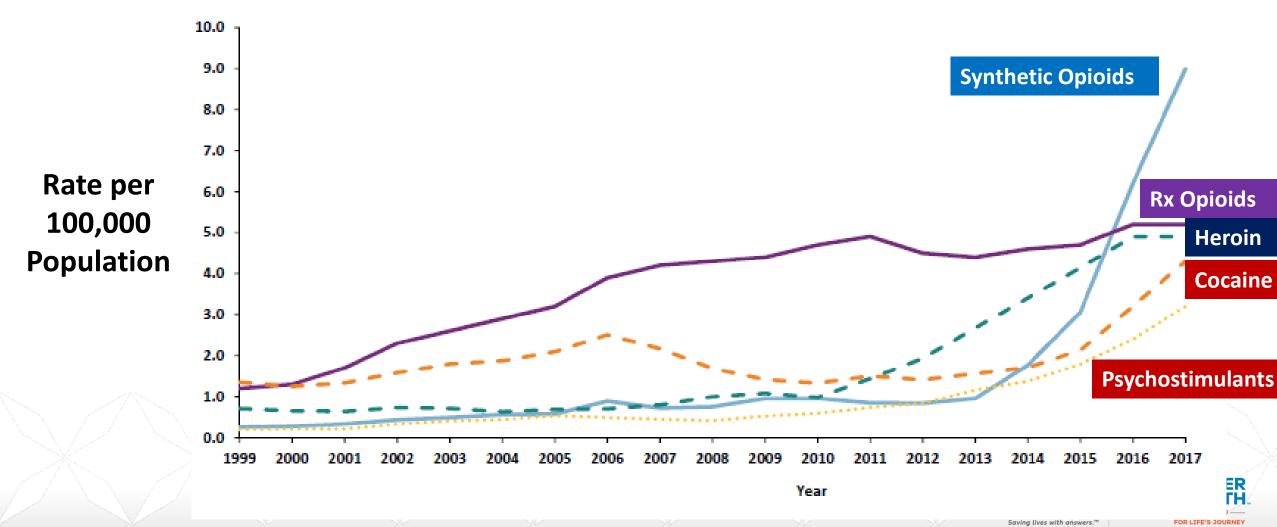




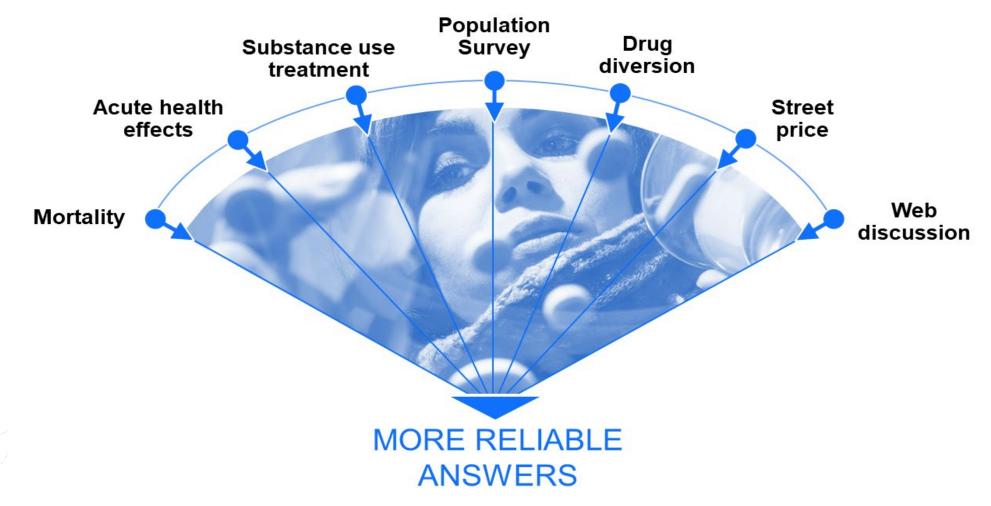


Prescription Stimulants: Why Should We Care?

Increasing stimulant mortality, includes prescription products



What is Mosaic Research?





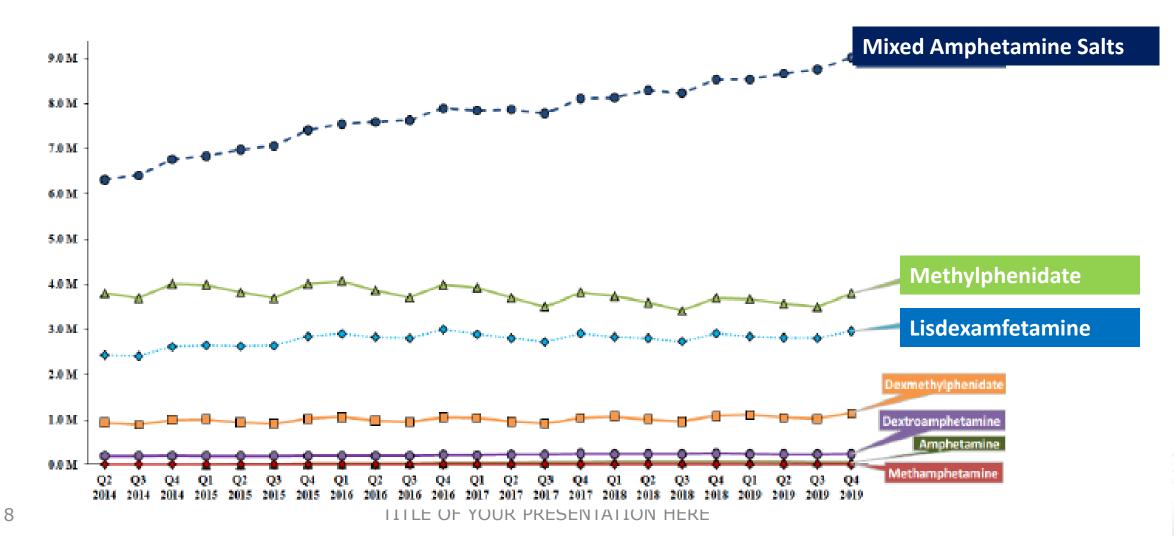


Zooming in by Prescription Stimulant Active Pharmaceutical Ingredients (APIs)

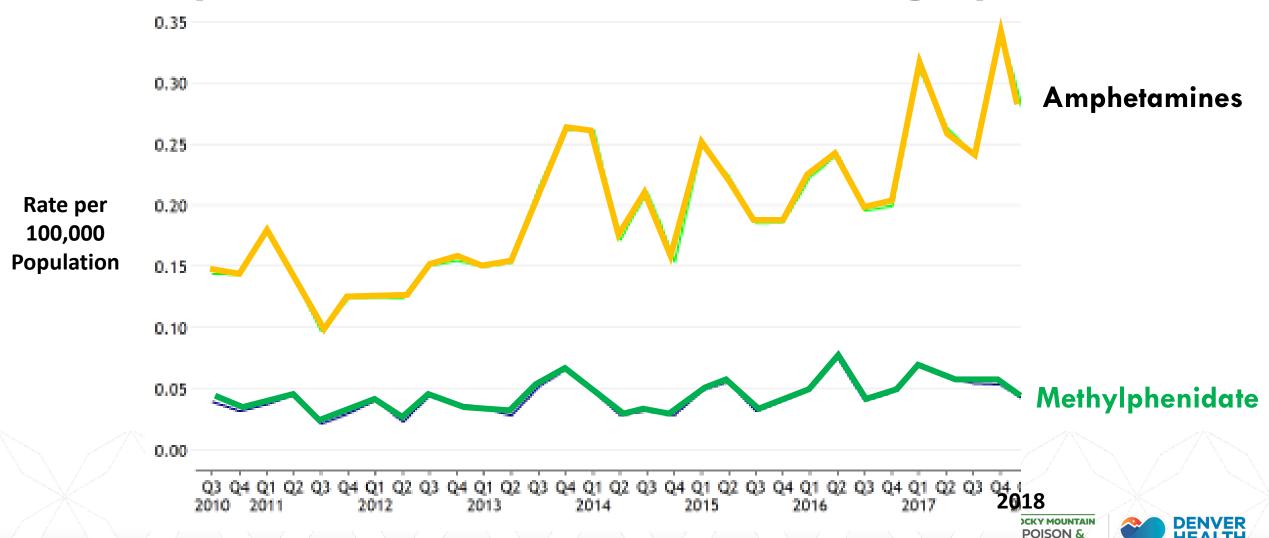




Stimulant Prescribing is Different by API



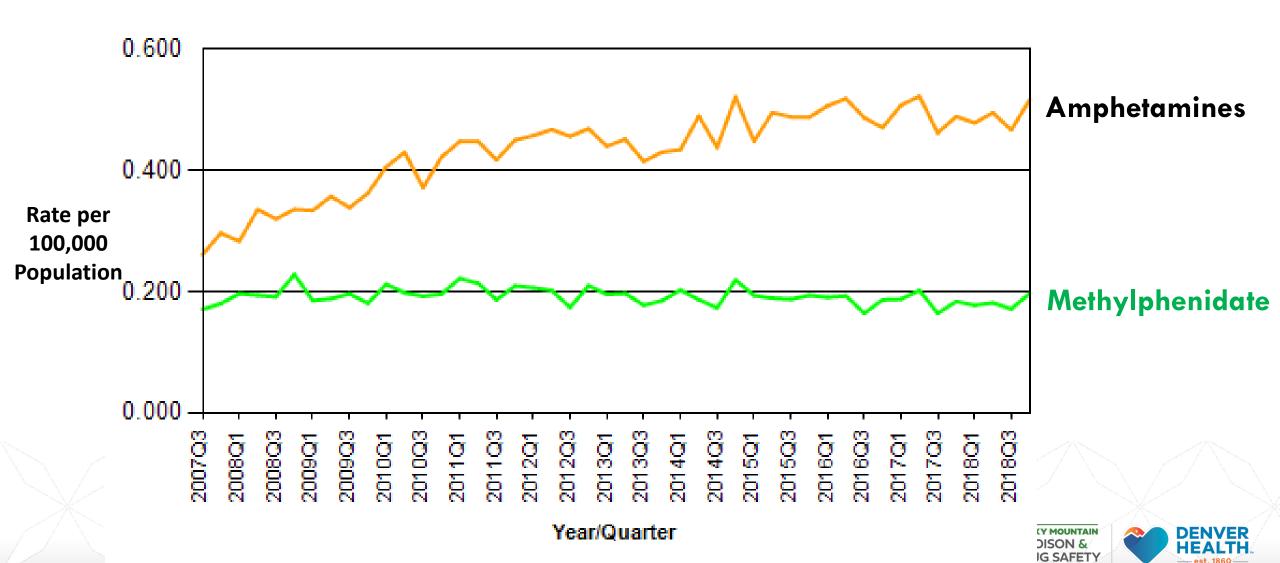
RADARS Drug Diversion Program Prescription Stimulant Diversion Trending Up



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Saving lives with answers.

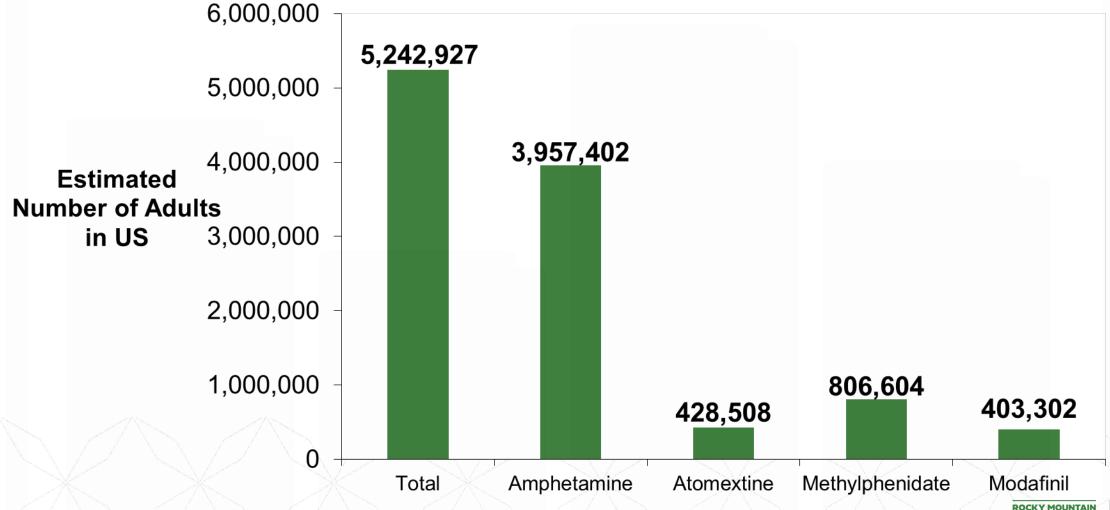
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RADARS Poison Center Program Prescription Amphetamine Intentional Exposures Trending Up



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RADARS NMURx Survey Rx Stimulant Nonmedical Use Impacts Large Population





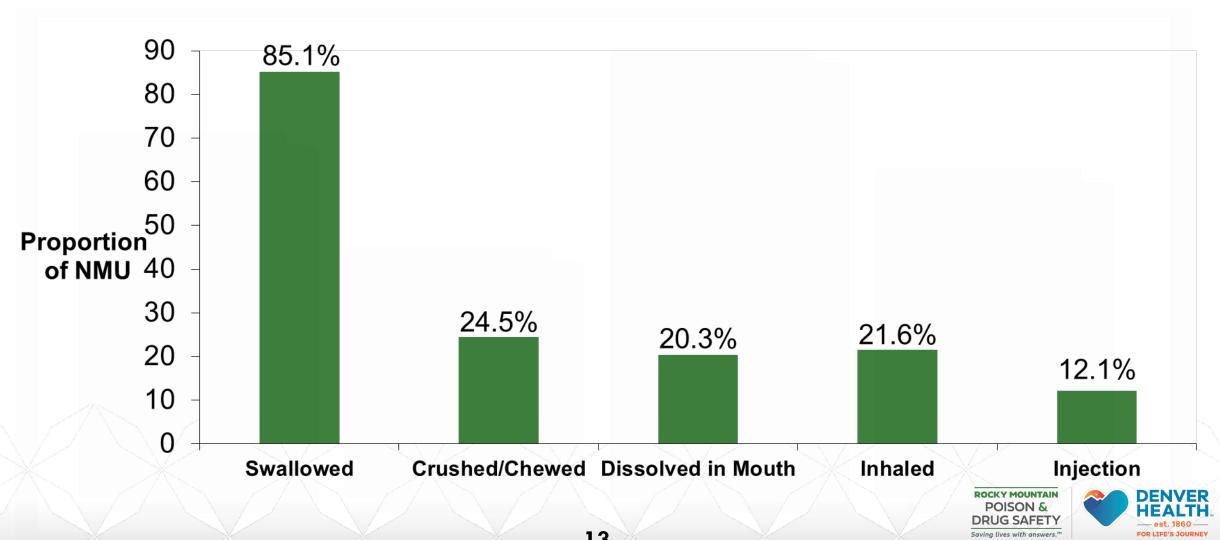
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Zooming in by Routes of Use

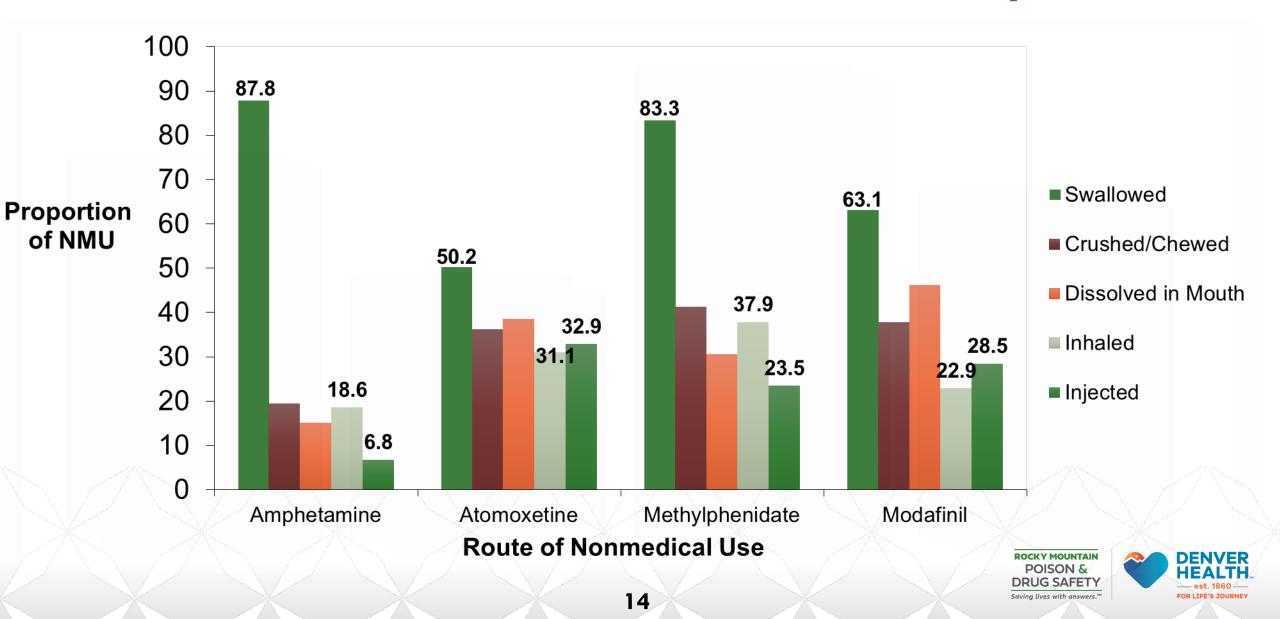




RADARS NMURx Survey, Non-Oral Routes of Rx Stimulant NMU Are Fairly Common



RADARS NMURx Survey, Non-Oral Routes of Rx Stimulant NMU Differ by API



Putting It All Together

 Mosaic data should be triangulated to form more complete picture of trends

• Prescription stimulant prescribing continues to increase

 Large portion of the US population is impacted by prescription stimulant NMU



Putting It All Together

 Non-oral stimulant NMU is fairly common and should be studied further

- Need product-specific data to evaluate risks
 - API differences
 - Immediate vs extended release
 - Unique formulations
- Relationship between prescription and illicit stimulants not yet known, but mortality trends are concerning





Thank you!
Janetta L. Iwanicki, MD
Chief Scientific Officer
Rocky Mountain Poison & Drug Safety

Email Janetta.Iwanicki@RMPDS.org
Twitter @DrJ4747

