Florida's Flakka & Opiate Epidemics

Novel Psychoactive Substances (NPS)
Emerging Issues in Substance Abuse

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Davie, Florida

Designer Drugs

From MDA to
3,4 MDMA “ecstasy”

Novel Psychoactive Substances (NPS)
**DRUGS**

- Not “spice,” “bath salts,” nor “incense”
- **Psychoactive Substances**
- Change the Brain’s Functions
- **Complex Chemistry**
- Complicated Neuropharmacology
- The Menu:

**Classes of Novel Psychoactive Substances (NPS)**

- **Phenethylamines** – includes Methamphetamine
  - Cathinones – Stimulants & Hallucinogens
- **Cannabinoids**
- **Tryptamines**
- **Piperazines**
- **Opiates- Fentanyl Analogues et al**
- **Benzodiazepine Analogues**
Cathinone Stimulants often have trendy names and slick packaging

- White lightening
- Zoom
- Cloud 9
- Cloud 10
- Red Dove
- Blue silk
- Moon dust
- NRG (4-MEC)

Head trip
Radiance
Ivory Wave
Power surge
Sextasy
Vanilla Sky

MAJOR Synthetic Cathinones 2014-2015

- Cathinones – Synthetic Khat
  - MDPV
  - 4 MEC
  - Methylone
  - Alpha-PVP
  - Ethylone
  - Butylone
  - Others
Florida's Flakka & Opiate Epidemics


<table>
<thead>
<tr>
<th>Year</th>
<th>Ethylone</th>
<th>Methylone</th>
<th>Alpha-PVP</th>
<th>Other Cathinones</th>
<th>MDMA</th>
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<tbody>
<tr>
<td>2010</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>19</td>
<td>1071</td>
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<tr>
<td>2011</td>
<td>1</td>
<td>123</td>
<td>82</td>
<td>248</td>
<td>674</td>
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<tr>
<td>2012</td>
<td>5</td>
<td>739</td>
<td>46</td>
<td>484</td>
<td>182</td>
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<tr>
<td>2013</td>
<td>4</td>
<td>2,813</td>
<td>781</td>
<td>241</td>
<td>115</td>
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<tr>
<td>2014</td>
<td>1,426</td>
<td>1,042</td>
<td>2,012</td>
<td>281</td>
<td>136</td>
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<tr>
<td>2015</td>
<td>1,827</td>
<td>29</td>
<td>29</td>
<td>7</td>
<td>158</td>
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</tbody>
</table>

Source: US DEA - National Forensic Laboratory System Data Queried Jan 19, 2016

Florida Ecstasy, Molly, & Flakka Crime Lab Cases January-June 2016

- Ethylone, 103
- Alpha-PVP, 122
- Dibutylone, 186
- MDMA, 70

Looking for Molly

She Makes Me Want to Dance

First, Methylone
beta-ketone MDMA

Then, Ethylone
3,4-methylenedioxy-N-ethylcathinone
(MDEC, bk-MDEA)

Now, Dibutylone
Molly
“Flakka”

- **Flaca** – Skinny
- **Flaka** – Beautiful, elegant woman who charms all
- Elsewhere called **“Gravel”**

**alpha-PVP**

*a-pyrrolidinopentiophenone*

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**South Florida Crime alpha-PVP Lab Cases:**

- 2012 - 2
- 2013 - 6
- 2014 - 576
- 2015 - 1,661
- Jan-Jun 2016 - 57

**Toxic Effects:**

- Tachycardia,
- Agitation,
- Psychosis,
- Violent behavior,
- Excited Delirium
  - Hyperthermia
  - Kidney failure
  - Death
Florida's Flakka & Opiate Epidemics

**Flakka Frenzy**

Flakka Hospital Cases: Broward Health
June 1 – December 27, 2015

Flakka Cases by Gender
- Male: 1,516
- Female: 356

Flakka Cases by Ethnicity
- White NH: 751
- Black NH: 996
- White Hisp: 110
- Asian: 6
- Black Hisp: 7
- American Indian: 2

19%
81%

n = 1,872 Flakka Cases
63
Flakka Related Deaths
Broward County, Florida

September 2014 – December 11, 2015

Clinical Issues for Flakka Clients

• Cognitive Impairment
  • “I can’t think”
  • 20 minute private sessions
  • Decreased reading comprehension
    – Use of pictures instead of paragraphs

• Continuous Paranoia
  - Quiet, private room
  - No bright lights

• The Matrix Model
China Bans *alpha*-PVP

Effective October 1, 2015
Production and exportation of 116 synthetic drug analogs banned

Flakka Hospital Cases Broward Health Medical Centers: June 1 – December 27, 2015

\[ n = 1,872 \] Flakka Cases

Source: Broward Health Medical Centers
Florida's Flakka & Opiate Epidemics

Broward Addiction Recovery Center
Flakka Treatment Admissions
September 2014 – January 2016 n= 469

Source: Broward Addiction Recovery Center (BARC)

The Washington Post

The surprising disappearance of flakka, the synthetic drug that pushed South Florida to the brink

By Todd C. Frankel April 4, 2016 at 5:55 PM

Ozzy Tienza of the Broward County Sheriff’s Office checks a woman’s purse in June 2015 to see if she is carrying the drug flakka. (Getty)

POMPANO BEACH, FLA. – Lt. Ozzy Tienza jumped in his unmarked cruiser and
Frontline Florida: Emerging Drug Trends
The Opiate Epidemic

James N. Hall, Epidemiologist
Nova Southeastern University
Center for Applied Research on Substance Use and Health Disparities

Number of Heroin Deaths in Florida: 2000 to 2015*

* Projected Increase based on 2 X 1st Half of 2015
Source: Florida Medical Examiners Commission 2015 Interim Report
Florida's Flakka & Opiate Epidemics

Number of Nonmedical Rx Opioids Occurrences Detected among Decedents in Florida 2005 – 2015*

<table>
<thead>
<tr>
<th>Year</th>
<th># of Opioids Detected Among Decedents</th>
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<tbody>
<tr>
<td>2005</td>
<td>4,035</td>
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<tr>
<td>2006</td>
<td>4,416</td>
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<td>2007</td>
<td>5,059</td>
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<td>2008</td>
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<td>2011</td>
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<td>2012</td>
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<td>2013</td>
<td>5,489</td>
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<tr>
<td>2014</td>
<td>5,624</td>
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<tr>
<td>2015</td>
<td>6,174*</td>
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</table>

*2015 projection based on 2 x 1H2015

Source: FDLE – Drugs Identified In Deceased Persons by Florida Medical Examiners Jan 2005 - June 2015 Reports

Number of Lethal Rx Opioid and Heroin Occurrences Among Deceased Persons in Florida 2000 to 2015*

- Heroin
- Fentanyl
- Morphine
- All Other Rx Opioids

* Projected Increase based on 2 X 1st Half of 2015

Source: FDLE – Drugs Identified In Deceased Persons by Florida Medical Examiners Jan 2000 - June 2015 Reports
Florida's Flakka & Opiate Epidemics

Number of Hospital Cases for Non-Fatal Rx Opioid Poisonings in Florida: 2007-2014

<table>
<thead>
<tr>
<th>Year</th>
<th>Emergency Dept</th>
<th>Inpatient</th>
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<tbody>
<tr>
<td>CY 2007</td>
<td>6,754</td>
<td>4411</td>
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<td>CY 2008</td>
<td>8,153</td>
<td>5084</td>
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<td>CY 2009</td>
<td>8,851</td>
<td>5691</td>
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<td>CY 2010</td>
<td>9,571</td>
<td>6286</td>
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<tr>
<td>CY 2011</td>
<td>9,524</td>
<td>6464</td>
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<tr>
<td>CY 2012</td>
<td>8,443</td>
<td>5909</td>
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<tr>
<td>CY 2013</td>
<td>8,626</td>
<td>5917</td>
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<tr>
<td>CY 2014</td>
<td>11,905</td>
<td>7915</td>
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</table>

Source: Analysis of data from the Florida Agency for Health Care Administration

Rx Opioid Poisoning Hospital Cases in Florida With and Without a Diagnosis of Opioid Abuse: 2014 n= 11,905

- With Opioid Abuse: 11,030 (93%)
- Without Opioid Abuse: 875 (7%)

Source: Analysis of data from the Florida Agency for Health Care Administration
Number of Hospital Cases for Heroin Overdose Poisonings in Florida: 2014

<table>
<thead>
<tr>
<th>Hospital Heroin Poisonings</th>
<th>With or Without Abuse Diagnosis</th>
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<tr>
<td>Emergency Dept.</td>
<td>Without Abuse Diagnosis</td>
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<tr>
<td>Inpatient</td>
<td>With Abuse Diagnosis</td>
</tr>
<tr>
<td>1,925</td>
<td>29%</td>
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<tr>
<td>1,364</td>
<td>71%</td>
</tr>
<tr>
<td>561</td>
<td>1,368</td>
</tr>
<tr>
<td>0</td>
<td>n = 1,925</td>
</tr>
</tbody>
</table>

Source: Florida Agency for Health Care Administration

Symptoms of Opium Withdrawal

- nausea
- sweating
- cramps
- vomiting
- diarrhea
- insomnia
- loss of appetite
- agitation
- irritability
- mood swings
- depression
- anxiety
- muscle soreness
- aching bones
- fever
- runny nose
- twitching
“Dope Sick”
Addiction is the Affliction

How Did Florida Get Here:
The Nonmedical Rx Epidemic
2000 to 2010
Florida's Flakka & Opiate Epidemics

Ft. Lauderdale Pill Mill

......The doctor is in

Top 50 Dispensing Practitioners of Oxycodone in the U.S.

October 2008 – March 2009

ARCOS
Florida's Flakka & Opiate Epidemics

**Top 50 Dispensing Practitioners of Oxycodone in the U.S.**

- 49 in Florida
- 25 in Broward County

October 2008 - March 2009

Ranking by County by Units Dispensed:

- Oxycodone Units Dispersed
  - 5,333,785 (Broward)
  - 2,308,430 (Palm Beach)
  - 646,500 (Miami-Dade)
  - 192,400 (Pinellas)
  - 184,330 (Hillsborough)
  - 199,000 (Lake)
  - 164,886 (Seminole)
  - 133,000 (Orange)
  - 108,000 (Lee)

9,201,731 Dose Units

Among the top 50 dispensing practitioners in the U.S., all but 1 are in Florida and are concentrated in 9 counties. Broward holds 50% of the top practitioners and 55.4% of the total units dispensed.

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**Number of Nonmedical Rx Opioids Occurrences Detected among Decedents in Florida 2005 – 2015**

- 2015 projection based on 2 x 1H2015

*Source: FDLE – Drugs Identified In Deceased Persons by Florida Medical Examiners Jan 2005 - June 2015 Reports*
Number of Selected Lethal Rx Opioid Occurrences Among Deceased Persons in Florida 2008 to 2015

Source: FDLE – Drugs Identified In Deceased Persons by Florida Medical Examiners Jan 2008 - Jun 2015 Reports

Number of Heroin and Fentanyl Deaths in Florida: 2000 to 2015*

* Projected Increase based on 2 X 1st Half of 2015

Source: Florida Medical Examiners Commission 2015 Interim Report
Non-Pharmaceutical Fentanyl (NPF) 2012: New NPF Trafficking

- Pill press equipment and NPF supplied by Chinese
- Internet ordering and Canadian in-country pill pressing
- Found in British Columbia, Alberta, Ontario and Quebec in Canada
- In the US so far: Los Angeles, New York, Ohio, Seattle
Pill press plus 1K NPF = $100,000
Street value = $20,000,000

Source: RCMP

Real
Fake

Pinellas County Florida

Counterfeit Xanax with Fentanyl
Florida's Flakka & Opiate Epidemics

Fake Oxycodone with Fentanyl

Pinellas County Florida

Non Pharmaceutical Fentanyl

- acetylfentanyl,
- butyrfentanyl,
- 3-methyhfentanyl
- Furanylfentanyl
- Carfentanil
Florida's Flakka & Opiate Epidemics

Number of Neonatal Abstinence Syndrome Cases State of Florida: 2007-2014

Source: Florida Agency for Health Care Administration

www.drugfreebroward.org

Click on: Initiatives
### Branches of Community

<table>
<thead>
<tr>
<th>Branch of Community</th>
<th>Organization</th>
<th>Resources Available</th>
<th>Activities</th>
<th>Contact</th>
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<td>Law Enforcement</td>
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<td>First Responders</td>
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<td>Community Non-Profits</td>
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<td>County Government</td>
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<td>Business Sector</td>
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<tr>
<td>Youth/Parents</td>
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<td>Federal Agencies</td>
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</tbody>
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“Nobody can do it on their own, but no drug dealer, nor cartel, can stand against families, schools, churches, and communities united together”

Sam Quinones