Heroin and Fentanyl in the United States

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Synthetic Drugs and Chemicals Section (DOS)
Major Causes of Death from Injury

Source: CDC
Heroin Threat Increasing

Source: DEA
Heroin Threat Increasing

Source: DEA
How does heroin compare to other drugs?

Source: NSDUH
User Population Growing Faster

Current (Past Month) Heroin Users

Source: NSDUH
Higher Rates of Treatment

Treatment Admissions to Publicly-Funded Facilities by Primary Drug, 2013

Source: TEDS
More Deadly to its Population

Source: CDC

- Opioid analgesics
- Heroin
- Synthetic Opioids (fentanyl)


22,767
10,574
5,544
Prescription Pain Relievers to Heroin

Contribute to increased demand for heroin
- 19x higher among former CPD abusers
- 80% of new heroin abusers were CPD abusers
- Small number of CPD abusers = large influx of heroin users
- CPD abusers at elevated risk

Reasons
- Price
- Availability
- Tolerance
Overdose Deaths

Source: CDC

248% Increase since 2010

Number of Deaths

Source: CDC
Availability Increasing

US Heroin Seizures, 2008 - 2015

Source: NSS
Heroin at the Southwest Border

Heroin Seizures at the Southwest Border, 2000-2015

Kilograms

Source: NSS
Fentanyl

Schedule II synthetic opioid
- Exponentially more potent than heroin

Forms
- White powder
- Counterfeit pills
- Pharmaceutical forms (patches, lozenges)
- Derivatives ("analogs")

Sources
- Through Mexico, also Canada
- Direct from China
- Pharmaceutical Diversion: much smaller scale
Fentanyl Deaths

Synthetic Opioid Deaths, 2000 - 2014

Source: CDC
Fentanyl Lab Exhibits by State

Source: NFLIS
Fentanyl Threat Increasing

Number of Fentanyl and Acetyl Fentanyl Exhibits in NFLIS, 2009-2016(Sept)
Potential Profit With *Minimal* Investment
Fentanyl Generates *Greater* Profits Than Heroin

<table>
<thead>
<tr>
<th>Drug</th>
<th>Cost Per 1 Kg to DTO</th>
<th>Approximate Number of Kgs Produced</th>
<th>Wholesale Price per Kg in USA</th>
<th>Revenue to DTO from 1 Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heroin</td>
<td>$6,000 - 7,000</td>
<td>1 kg</td>
<td>$80,000</td>
<td>$80,000</td>
</tr>
<tr>
<td>Pure Fentanyl (99%)</td>
<td>$4,200 - 6,000</td>
<td>16–24 kg (4%–6%)</td>
<td>$80,000</td>
<td>$1,280,000 - 1,920,000</td>
</tr>
</tbody>
</table>
Potential Revenue Generated from Fentanyl Pill Sales Using One Kilogram of Fentanyl

<table>
<thead>
<tr>
<th>Amount of fentanyl per pill</th>
<th>Price per pill</th>
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<th>Price per pill</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$10.00</td>
<td>$15.00</td>
<td>$20.00</td>
</tr>
<tr>
<td>1.5 milligrams (666,666 pills)</td>
<td>$6.6 million</td>
<td>$9.9 million</td>
<td>$13 million</td>
</tr>
<tr>
<td>1 milligram (1 million pills)</td>
<td>$10 million</td>
<td>$15 million</td>
<td>$20 million</td>
</tr>
</tbody>
</table>
CARFENTANIL

• Available from web or dark net

• $600 per 100 grams (as of June)

Relative
• 1kg of Fentanyl HCl = 500,000 fatal doses
• 1kg of Carfentanil HCl = 50,000,000 fatal doses
We will not arrest/legislate our way out of this problem!!!!!

- Enforcement/Regulation is just as important as….
- Prevention/Education
- Treatment
WORKING TOGETHER

TO IMPACT THE HEROIN/FENTANYL THREAT