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**INTER-AMERICAN DRUG ABUSE  
CONTROL COMMISSION  
CICAD**

**SIXTY-SECOND REGULAR SESSION**  
**December 13 - 15 , 2017**  
**Washington, D.C.**

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**PRECURSOR CHEMICALS**



DEA

U.S. DRUG ENFORCEMENT ADMINISTRATION



*CICAD*  
*62<sup>ND</sup> Regular*  
*Session*  
*Washington DC*

*International Organized Crime Intelligence*  
*&*  
*Operations Center*

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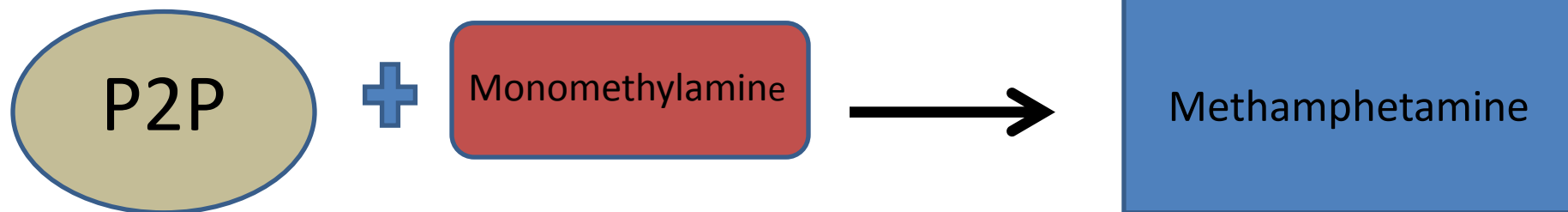
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# **Precursor Chemicals**



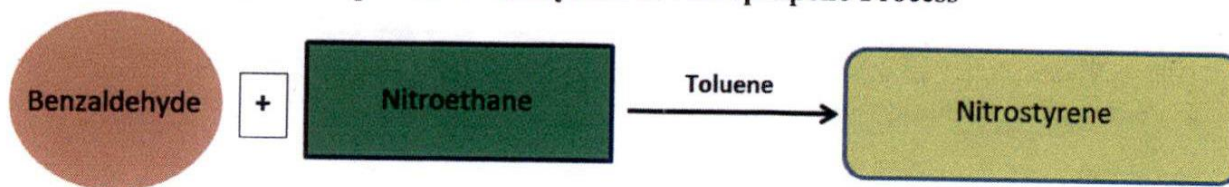
## Methamphetamine Process



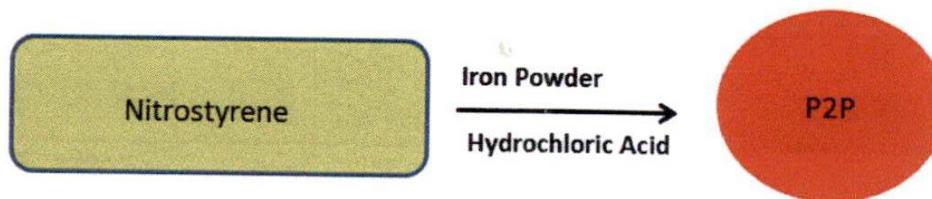


## Nitrostyrene or Nitropropene Process

### First Step of the Nitrostyrene or Nitropropene Process



### Second Step of the Nitrostyrene or Nitropropene Process





## Precursors for Fentanyl

- 4-anilino-N-phenethyl-4-piperidine (ANPP) is a schedule II controlled substance because it is an immediate precursor
- N-phenethyl-4-piperidone (NPP) is a List 1 chemical.
- 2-bromo-ethyl-benzene
- Benzyl-4-piperidone
- Phenethyl bromide
- Aniline
- 2-Chloroethylbenzene
- Methyl acrylate
- N-(1-phenethyl)-4-piperidinyll aniline
- N-(4-piperidinyll aniline
- *Propionic anhydride- List 1 controlled chemical*
- Propionyl chloride- Non controlled



## Regulatory Controls

- DEA/Office of Diversion Control regulates the import/export of List I chemicals, which includes those related to Fentanyl.
- Require chemical registrants to report suspicious shipments/transactions related to listed chemicals to thwart illegal diversion of precursor chemicals.
- DEA/DC actively works with the UNODC, the INCB, and partner countries to develop information sharing procedures to better control precursor chemicals through combined task force projects.





## New Psychoactive Substances (NPS)

Synthetic designer drugs, also known as New Psychoactive Substances (NPS), refer to man-made substances designed to mimic the effects of known licit and illicit controlled substances; these substances are oftentimes unscheduled and unregulated. There are a variety of synthetic designer drugs, which are categorized based on the types of controlled substances they are intended to mimic, namely cathinone's, cannabinoids and opioids. Synthetic substances have flooded the United States and have put not only our adult citizens but our children at risk of death or permanent injury. This tragedy is a primary focus for DEA that is overwhelming our country and law enforcement.



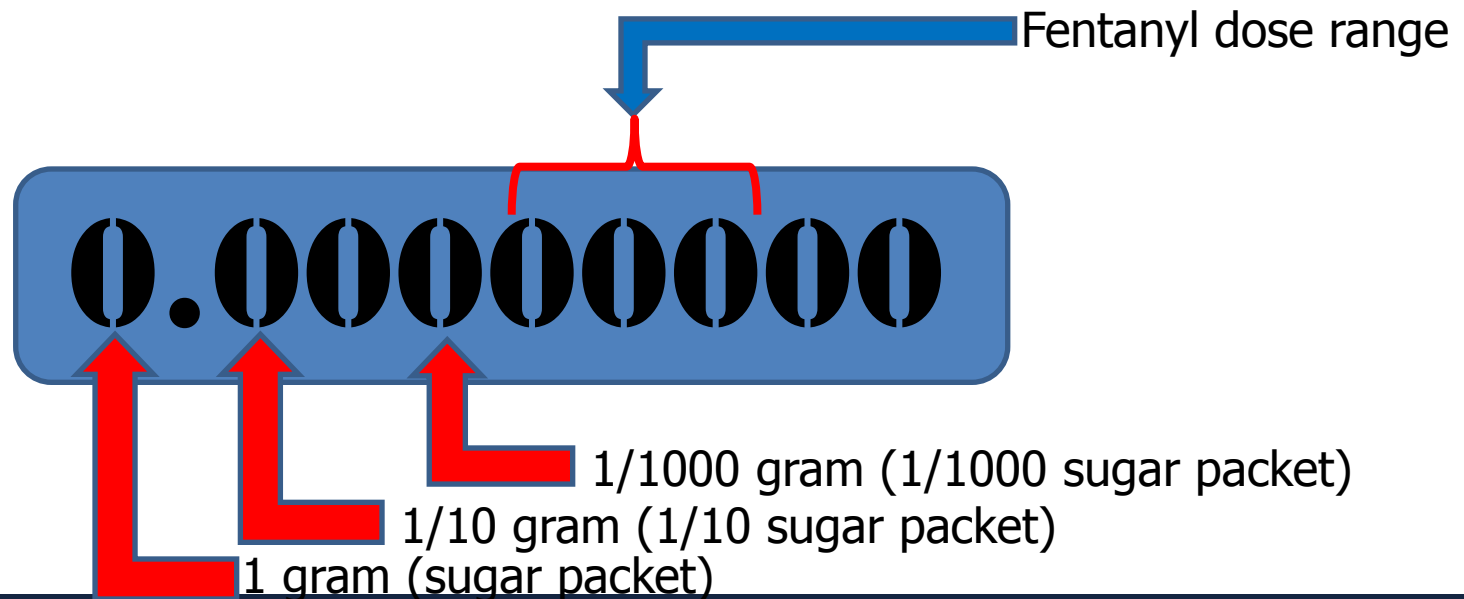


## Dosage Of Fentanyl

Effective dose: ~100 micrograms

Lethal dose\*: ~2,000 micrograms (2 mg)

1 kg pure Fentanyl can produce 500,000 lethal doses





## 2015-2016 CDC Results

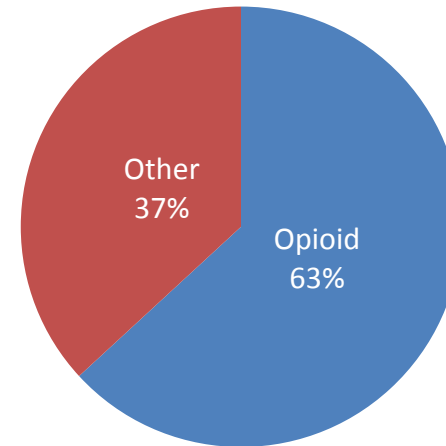
More than 52,000 people died from a drug overdose, and of those 33,091 (63.1%) involved an opioid in 2015.

Within 63.1% of overdose deaths related to opioids 18% of those deaths are due to Fentanyl.

91 Americans die everyday from an opioid overdose (includes prescription opioids and heroin)

**Preliminary estimates of U.S. drug overdose deaths exceeded 60,000 in 2016 and were partially driven by a fivefold increase in overdose deaths involving synthetic opioids (excluding methadone), from 3,105 in 2013 to approximately 20,000 in 2016**

\*2015 Drug Overdoses in US

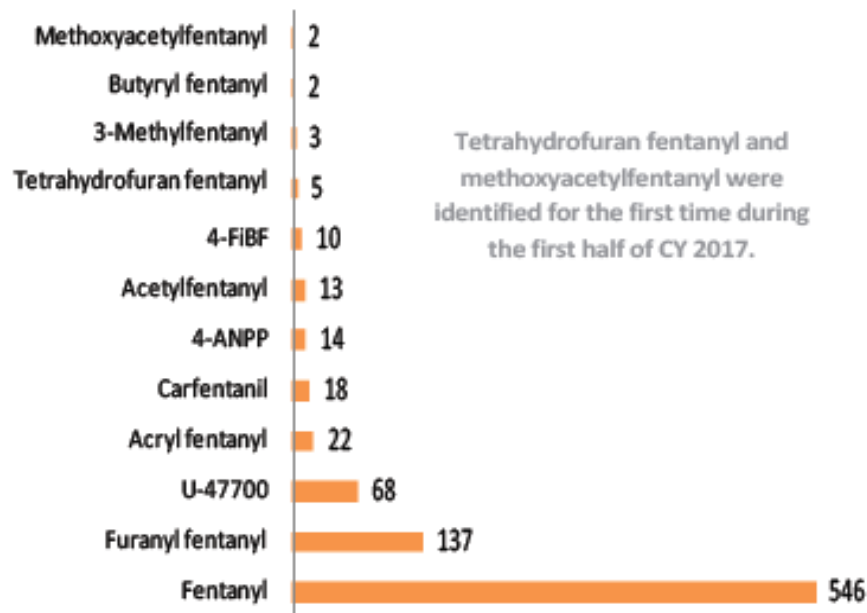




## Emerging Threats – Mid-Year 2017

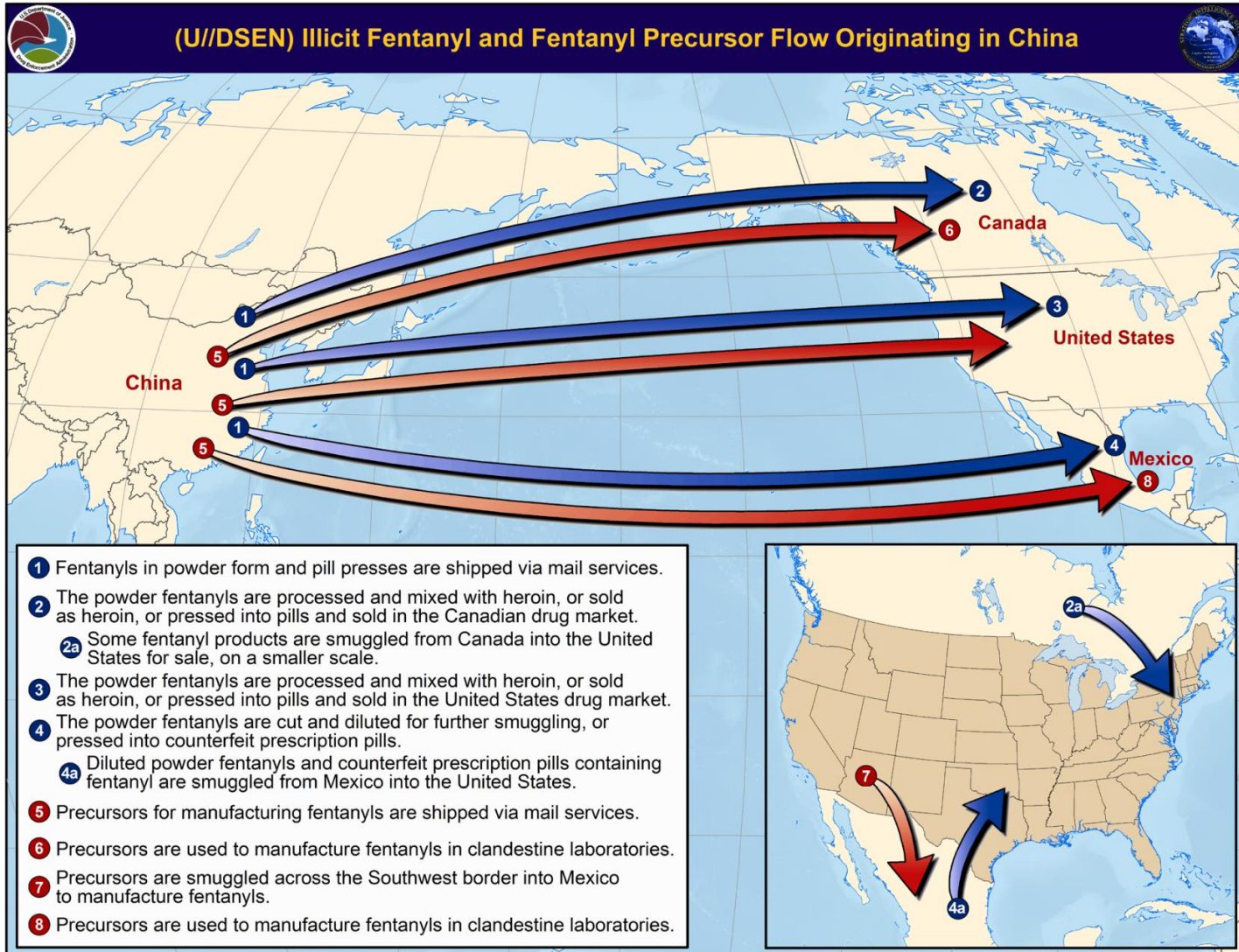
### OPIOIDS/ ANALGESICS

Fentanyl accounted for **65%** of the opioid identifications. Of the **546** fentanyl identifications, fentanyl was found as the only controlled substance in approximately **45%** of the identifications and was found in combination with heroin in approximately **49%** of the identifications. Furanyl fentanyl was the next most prominent opioid accounting for approximately **16%** of the identifications.





## Fentanyl Flow





## *Looking Towards the Future*

### ***What can we do:***

- Target main derivatives and cutting agents used in illicit pill milling operations such as microcrystalline cellulose and magnesium stearate.
- Target the dark web by identifying and tracking DTO's on the internet and dark net.
- Understand the problem with realization that treatment of the addiction is going to make the most difference in saving not only lives but communities and families.