



Rapid Response Industrial Group Ltd.



**“Our team values a strong culture of safety,
integrity and accountability”**

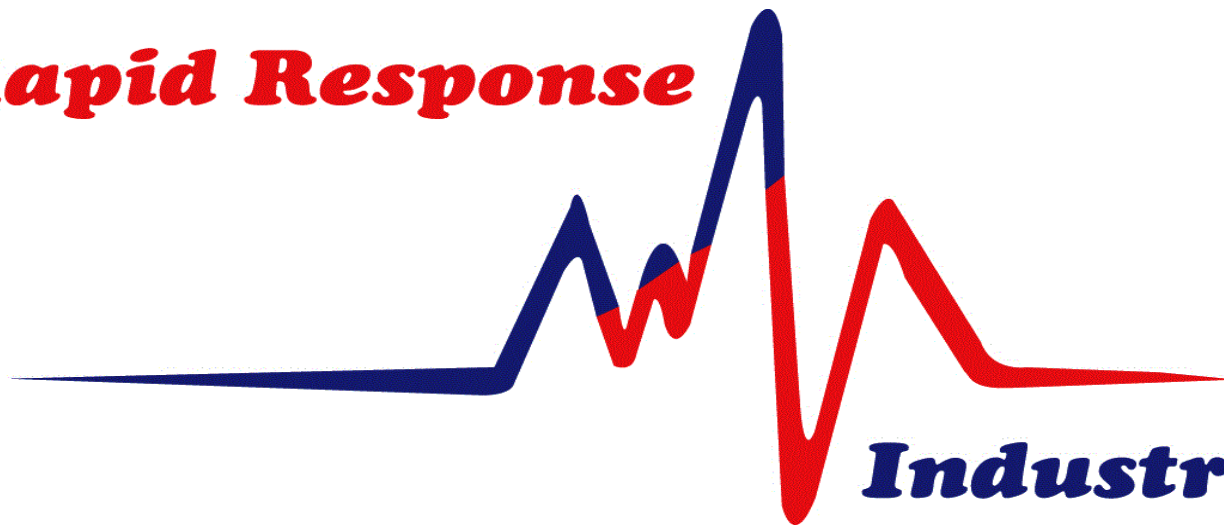


AIFEMA **Awareness Presentation**

“Understanding Your Safety”

Presented By:
Don Schuilenberg

Rapid Response



Industrial Group

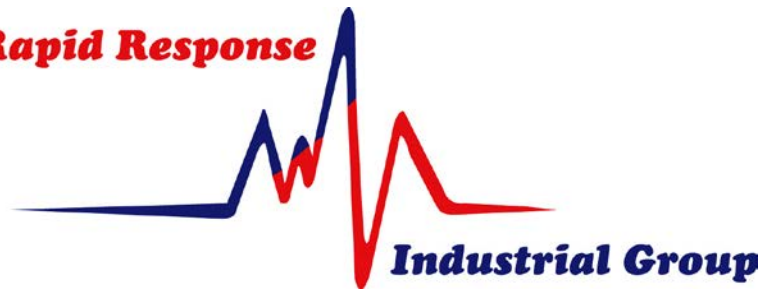


What We Do

Services That RRIG Can Provide:

- ▶ ✓ Class 1 Response + Neutralization / Detonation of Unstable Chemicals
- ▶ ✓ Industrial Firefighting, utilizing state-of-the-art equipment
- ▶ ✓ Hazardous and Non-Hazardous Spill Response
- ▶ ✓ Contaminated Sites Clean-up, Supported by Heavy Equipment & Dump Trucks
- ▶ ✓ Waste Pick-ups, Classification, Disposal, Clandestine Labs & Lab Packing
- ▶ ✓ Sharps (Needles) Sweeps & Collection
- ▶ ✓ Abatement such as Asbestos, Mold, Lead, Mercury
- ▶ ✓ MVA (Roll-overs) Involving Hazardous & Non-Hazardous Products
- ▶ ✓ Neutralization of Contaminated Equipment
- ▶ ✓ Attend & Support Community Functions & Events for Public Awareness (TransCAER)
- ▶ ✓ Opioid (Fentanyl) Decontamination & Remediation
- ▶ ✓ Illegal Dumps
- ▶ ✓ Trauma Scenes, Bio Clean-ups
- ▶ ✓ Neutralization of Raw Products
- ▶ ✓ Raw Product Transfers
- ▶ ✓ Excavation & Hauling of Solids
- ▶ ✓ Pandemic Outbreaks
- ▶ ✓ Analytical, Sampling
- ▶ ✓ Site Assessments
- ▶ ✓ Report Writing, Plan Writing

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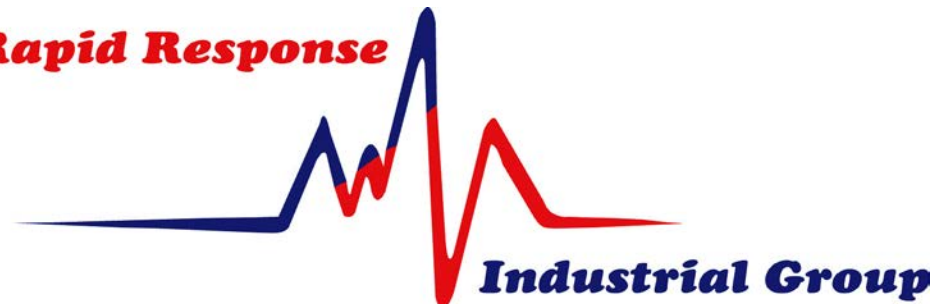




Why are we here?

- ▶ Last 3 years fentanyl has resurfaced at an alarming rate and is by far the most deadly of them all.
- ▶ Rapid Response is here to provide 24 hour resource support for law enforcement, victim service advocates, property management companies, insurance adjustors & private companies....etc.
- ▶ To be proactive in education & awareness to employers/employees that may be at risk of exposure.
- ▶ To educate, decontaminate and remediate in a professional, expedient, cost efficient manner

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FENTANYL





FENTANYL - History & Origin

This is a brick of illicit fentanyl.



Photo courtesy DEA.

This is how much fentanyl it takes to kill a person.

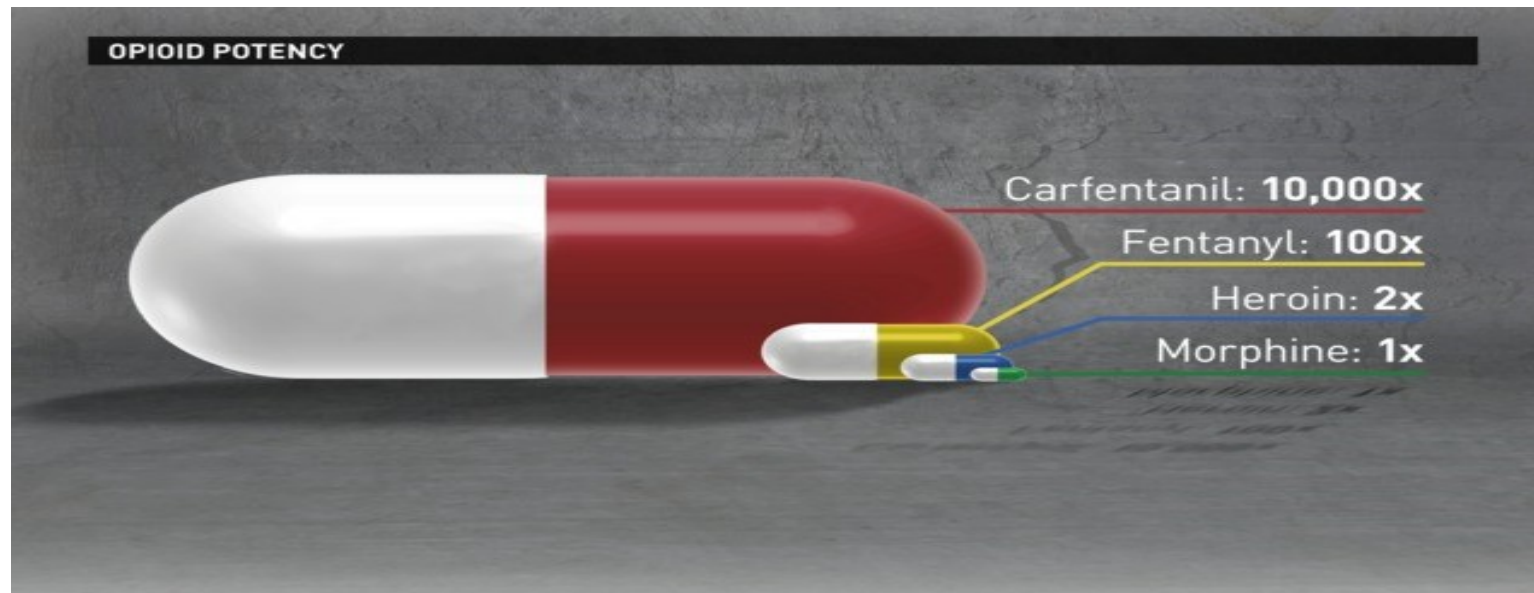


Photo courtesy CBC News.



FENTANYL : Composition & Toxicity

- ▶ Depresses central nervous system and respiratory function
- ▶ Estimated to be 100 times more potent as morphine and heroin
- ▶ Used as an incapacitating agent to impair a person's ability to function





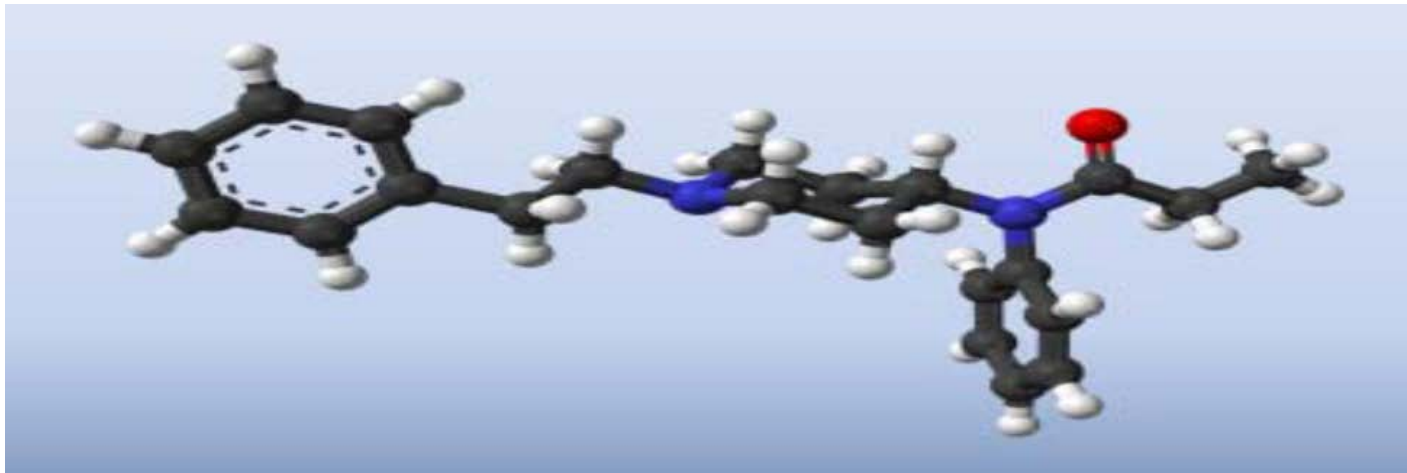
FENTANYL Clandestine Labs & Production





FENTANYL ANALOGS

- ▶ There is potential for more than 1400 analogs of fentanyl to exist.



- ▶ Only 200+ have been synthesized and studied.



FENTANYL ANALOGS

- ▶ CarFentanyl is 100 X more powerful than Fentanyl.
- ▶ 3-Methyl Fentanyl is 10-15 X more powerful.
- ▶ SuFentanyl is 5-10 x more powerful.
- ▶ Acetal Fentanyl is 1/7 as powerful.
- ▶ ButrylFentanyl is 1/4 as powerful.
- ▶ FuranylFentanyl is 1/5 as powerful.
- ▶ Alberta & BC have seen all of the above



FENTANYL: Legitimate Usage

- ▶ Fentanyl is a powerful synthetic opioid drug. It is commonly used legitimately as an anesthetic in hospitals.
- ▶ Two Main Forms Of Use:
 - 1) **Patch Form**: each patch contains between 2.5 mg and 10 mg.
Leave on for 72 hours/patch
 - 2) **Intravenously**: 50 micrograms per / ml.
- ▶ 2ml = 10-20 min of analgesia

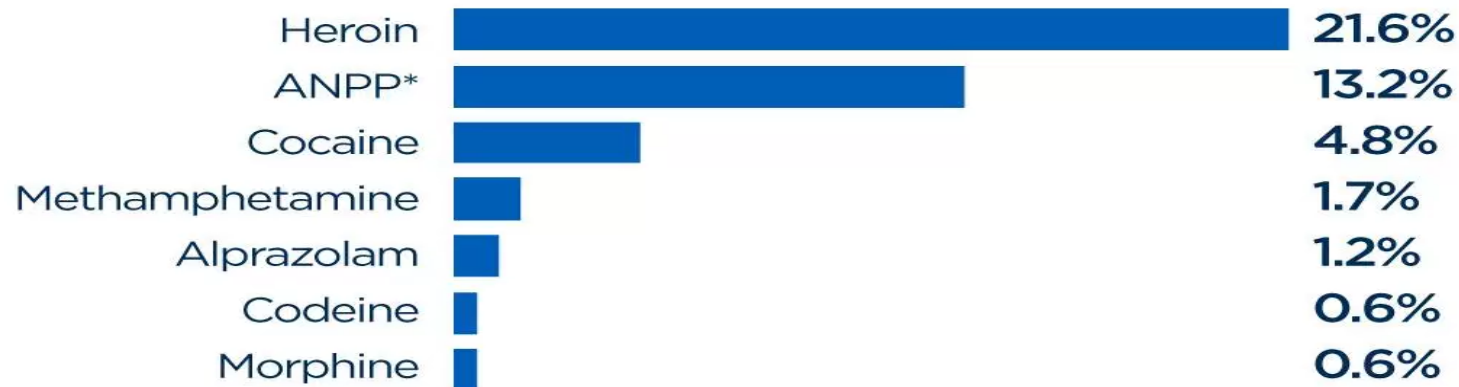




FENTANYL: In Illicit Drugs

- ▶ Fentanyl has become very popular in the sale of illicit street drugs to either increase the potency or direct substitution of heroin, cocaine or in the manufacturing of counterfeit Oxycodone pills.

Illegal Drugs Containing Fentanyl Identified by Health Canada's Drug Analysis Service



*4-anilino-n-phenethylpiperidine – an intermediate drug in the synthesis of fentanyl



FENTANYL Dangers

ROUTES OF EXPOSURE:

Fentanyl can be absorbed into the body via:

- ▶ It is not known whether fentanyl can be absorbed systemically through the eye



Skin absorbtion



Ingestion



Inhalation



Injection



FENTANYL Dangers

INGESTION / INHALATION EXPOSURE:

- ▶ Reduced level of consciousness
- ▶ Reduced respiratory function
- ▶ Reduced blood oxygen content
- ▶ Accumulation of acid in the blood
- ▶ Low blood pressure
- ▶ Slow heart rate
- ▶ Accumulation of fluid in the lungs
- ▶ Lethargy, coma, and death.

SKIN EXPOSURE:

- ▶ Absorption through the skin may contribute to whole-body toxicity.
- ▶ Absorption increases with skin temperature



FENTANYL Dangers

▶ **SIGNS / SYMPTOMS**

▶ **EFFECTS OF SHORT-TERM (LESS THAN 8-HOURS) EXPOSURE:**

- ▶ Pinpoint pupils.
- ▶ Weak muscles.
- ▶ Dizziness.
- ▶ Confusion.
- ▶ Extreme sleepiness.
- ▶ Loss of consciousness.
- ▶ Profoundly slowed heart beat.
- ▶ Very low blood pressure.
- ▶ Dangerously slowed or stopped breathing.
- ▶ Bluish tint to nails and lips.



FENTANYL Dangers

- ▶ Pure Fentanyl may appear to be other illicit drugs such as Cocaine or Heroin;
- ▶ Fentanyl will give a false positive for presumptive NIK Cocaine and Heroin tests;
- ▶ Overdose can quickly lead to stopped breathing and cardiac arrest;
- ▶ Narcan / Naloxone will interrupt exposures for 25-35 min. providing time for medical intervention.

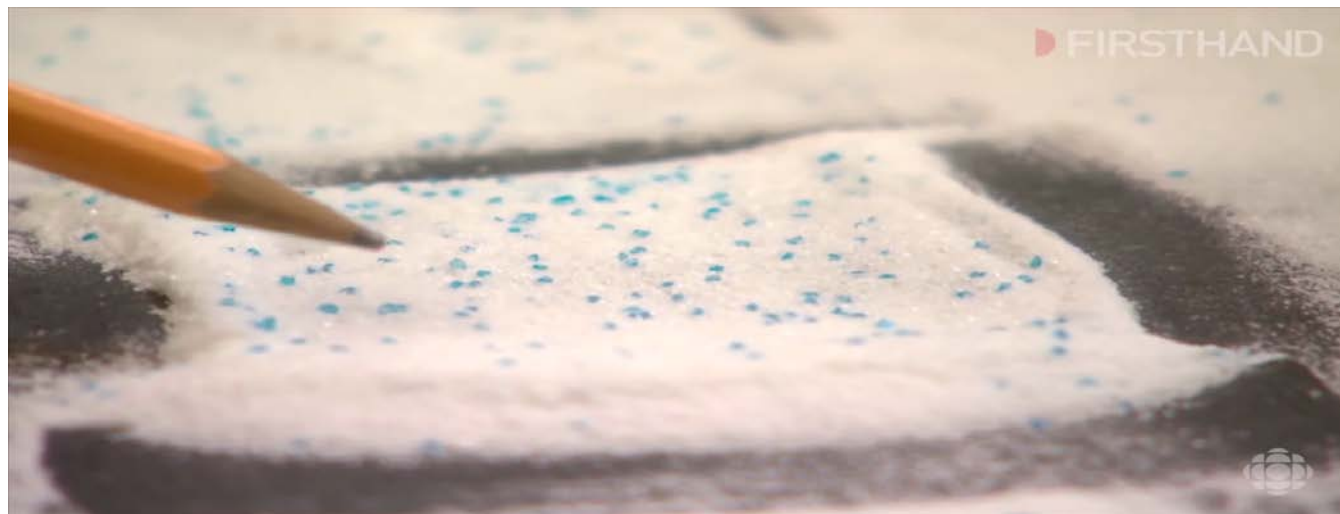




FENTANYL: Fatalities

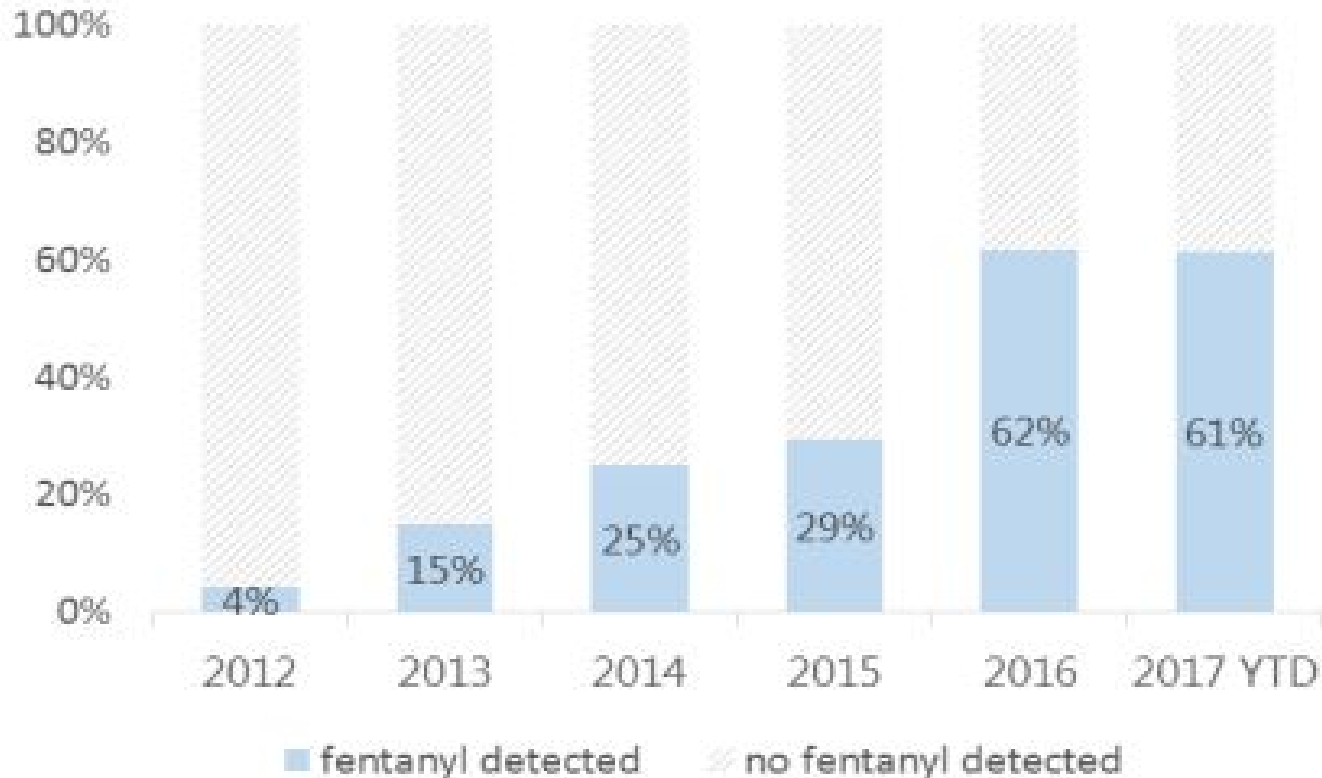
Why are we seeing deaths?

- ▶ If not mixed properly, these batches of Fentanyl with cutting agent may have “hot spots” or be overly concentrated, resulting in overdoses and deaths.
- ▶ The typical cutting ratio is 1 part Fentanyl to 100 parts cutting agent.
- ▶ This can be difficult to properly mix without dissolving in a liquid and then evaporating off.





Fatalities – (Alberta)

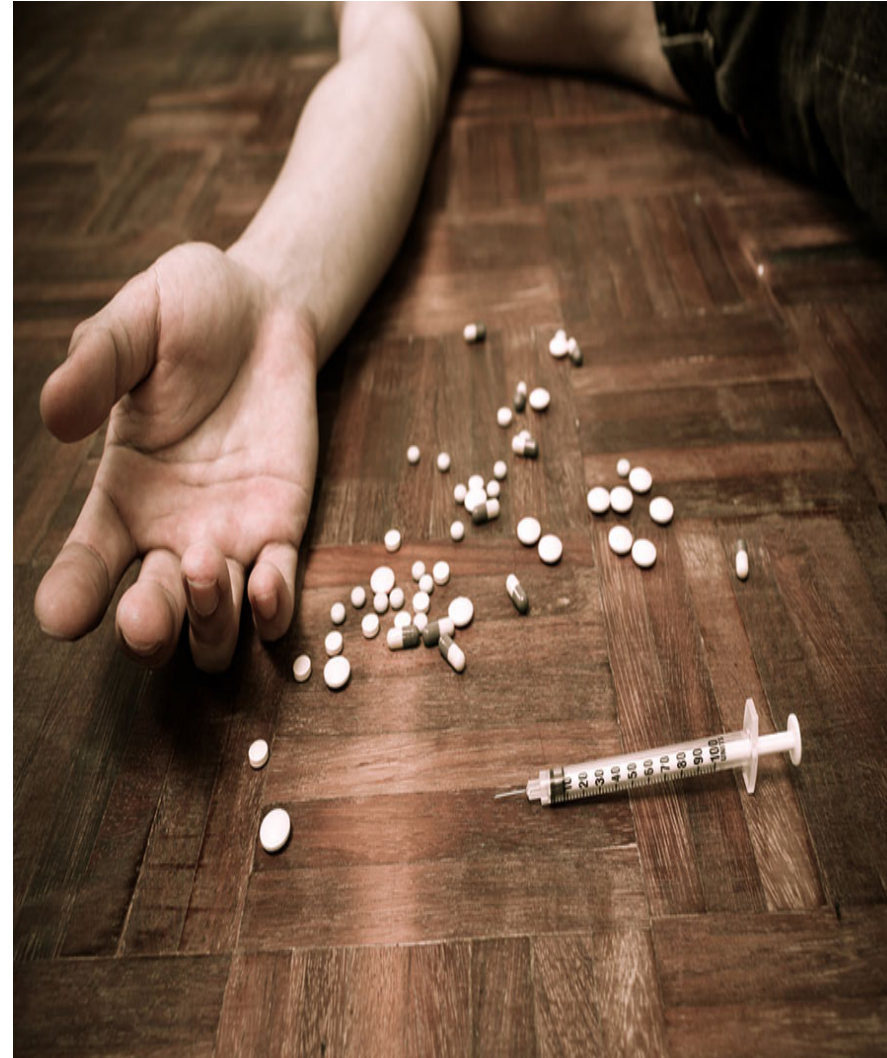


Illicit Drug Overdose Deaths With Fentanyl Detected, 2012-2017^[3]



Fatalities (Alberta)

- ▶ 2011 – 6
- ▶ 2012 – 34
 - 34 – carfentanil was detected
- ▶ 2013 – 91
- ▶ 2014 – 117
- ▶ 2015 – 257
- ▶ 2016 – 343
 - 125 - carfentanil was detected
- ▶ 2017 – 579
 - 125 - carfentanil was detected
- ▶ 2018 – 158 – Jan. 1 – March 31
 - 46 – carfentanil was detected





Risk & Liability

- Imperative that anyone entering or responding, be properly trained for the risk or potential hazard dealing with property or equipment contaminated with fentanyl, carfentanil or W18.
- Someone whether it is Health Services or an Insurance company will assume liability for the said property or equipment, important to ensure you have qualified and competent contractors and vendors handling the situation.
- Comply with applicable occupational health and safety legislation.
- Cross contamination after the fact meaning ie. A vehicle being cleaned by an auto detail company, then said vehicle being given back to owner and the owner having an exposure to said chemicals. Hopefully it would be an overdose and not lethal causing death.
- Clearly all properties do not need to be demolished but need to be cleaned properly and verified by a reputable firm for sampling and sign off.
- Potentially going home to see family involving cross contamination and not properly decontaminated.



IONSCAN 600

mikey Jul 06, 2018 10:48:48

Waiting...

Analysis N (25070-1) ✓

Alarm Sample Id: 411

Fentanyl

Details >

Please Remove Swab



IONSCAN 600

mikew

Jul 06, 2018 12:19:44

Purging...

Analysis

N (25070-1) ✓

Sample Id: 432

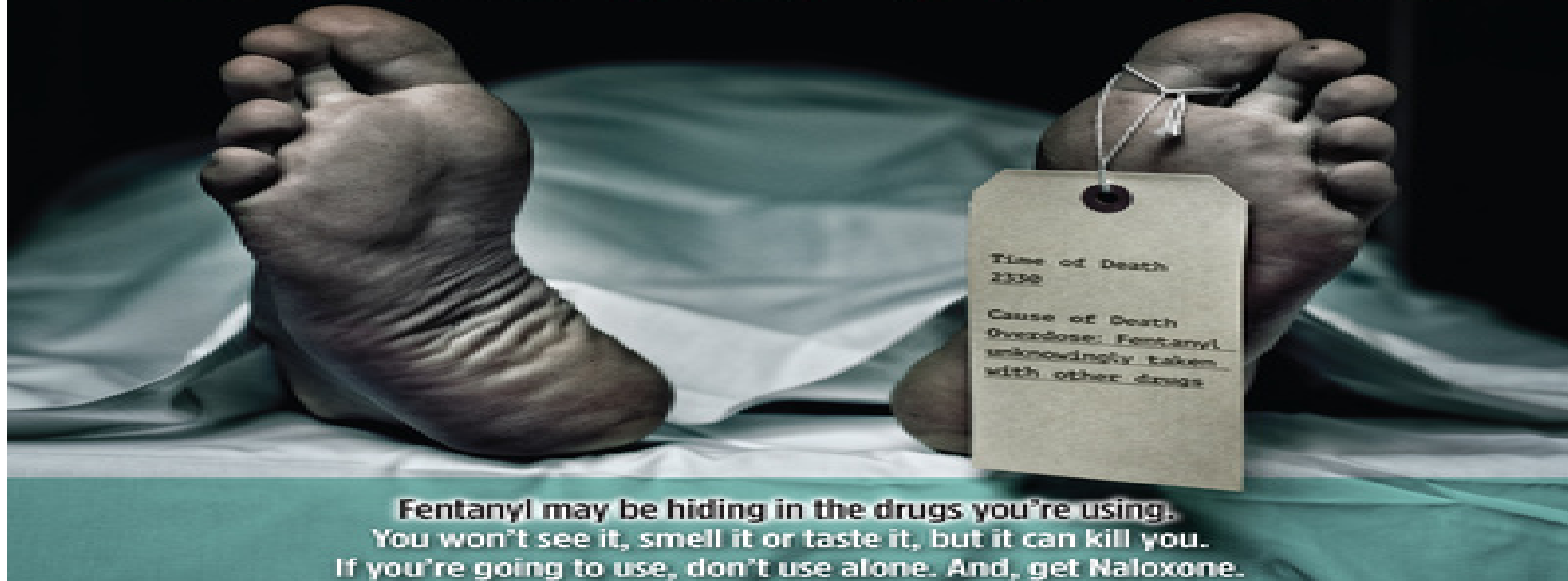
Pass

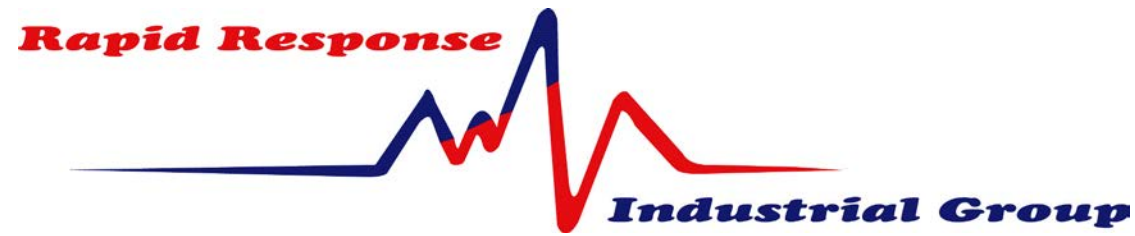




Fentanyl – It's in your backyard!

IT'S NEVER GOING TO BE YOU...
UNTIL IT IS.





Thank You

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Questions?

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