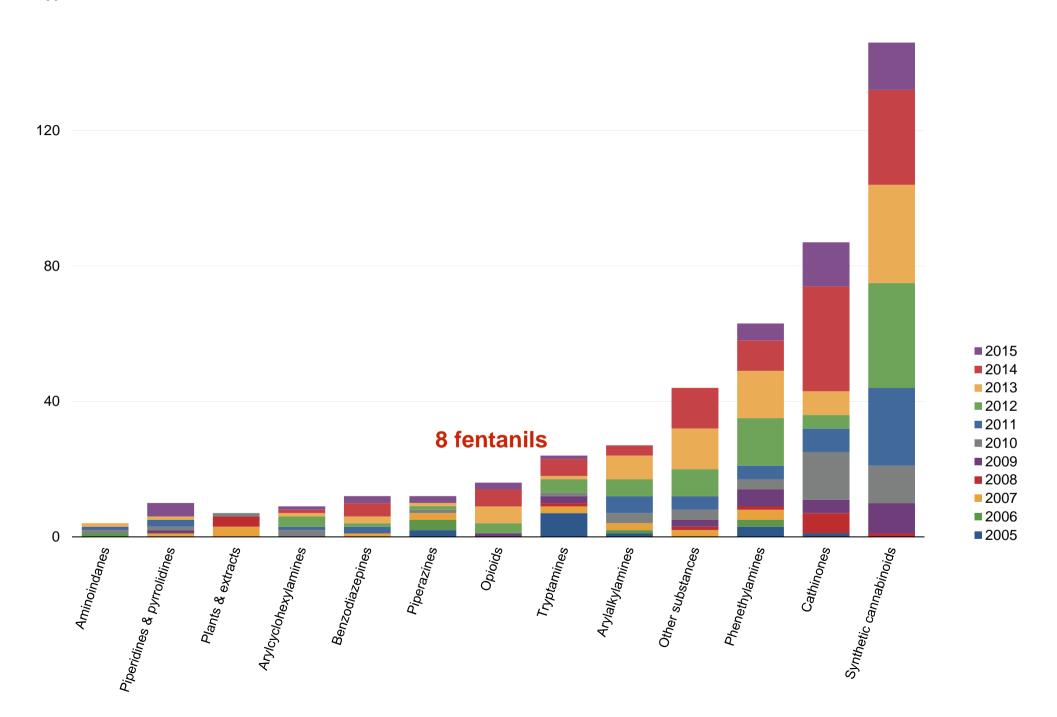
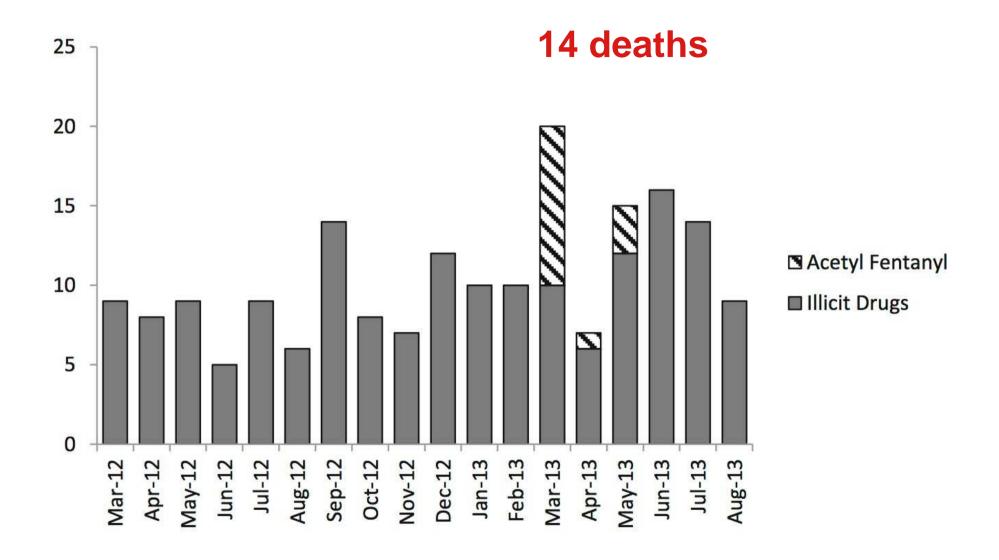


Acetylfentanyl

A potent µ-opioid analgesic sold openly on the internet



pesr	TMF appears on Estonian drug market 2002 Preliminary data indicated 85 TMF-related deaths in Estonia	1013 fentanyl deaths mainly in Chicago, Detroit, Philadelphia (US) 2005 – 2007 Deaths peaked in June 2006 at 150 cases and decreased to one death in February 2007 and one death in March 2007	107 fentanyl deaths in Massachusetts (US) $2005 - 2006$ 117 TMF deaths in Estonia $2005 - 2006$	g drug seizures of opiates in Estonia 2005 2005 -1 kg of 83% fentanyl HCl seized in California (US) 2006 srlands Believed to have originated in Mexico 3 TMF deaths in Finland 1 kg of TMF & 1.5 kg of fentanyl seized in Estonia 2002	2005 2010 2015
Case report of fentanyl intoxication in Netherlands 1995 Patient had a history of heroin and amphetamine dependence. Claimed to have used fentanyl for some time and manufactured it in a domestic laboratory Seizure of precursors for p-FF isomers in Germany 1995	TMF appear	œ	seized drug market	A cluster of fentanyl-related deaths among drug addicts in Sweden May 1994 – Aug 1995 p-FF tablets/capsules seized in Netherlands 1995 Synthesis by a PhD chemist 3 TMF death 2002	995 2000
	om 'classic narcotism'	. Had used 'China sequently was found to Du Pont chemist from Delaware (US) sentenced to 18 years for manufacture, distribution & possession of TMF	12 million. p-FF also in Pennsylvania (US) Nhite' detected on Russian	1990 M ac A	1990
	15 deaths that appeared to be from 'classic narcotism' in California (US) Dec 1979 - Dec 1980	Analysis found no drugs present. Had used 'China White' or 'synthetic heroin'. Subsequently was found to be a-methylfentanyl Du Pont chemist from years for manufacture, TMF		112 deaths, 94% in California (US) 1980 – 1988 40% of deaths occurred in 1984. Fentanyl, α-methylfentanyl, 3-methylfentanyl, and other 8 other analogues detected in seizures & biological samples	1980 1985



Illicit drug overdose deaths and **acetylfentanyl** overdose deaths **US-RI, March 2012–August 2013** (Lozier et al., 2015)

- 16 times more potent as analgesic than morphine
- LD₅₀ lower than fentanyl and morphine
- larger doses of naloxone may be required (CDC)
- **12 deaths in Russia** (2012)
- 40+ deaths in United States (2013 & 2014)
- 2 deaths in United Kingdom (2014 & 2015)
 - detected in 5 Member States