

SUAB

Substance Use &
Addictive Behaviours
Research

Deaths associated with use of NPS: a population-wide data analysis of the UK, 2007 - 2016

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Substance
Abuse Deaths
NP-SAD



**DEATHS ASSOCIATED WITH ILLICIT
USE OF DRUGS AS REPORTED BY
CORONERS, PROCURATORS FISCAL
AND JUDICIARY IN NORTHERN
IRELAND**

Method:

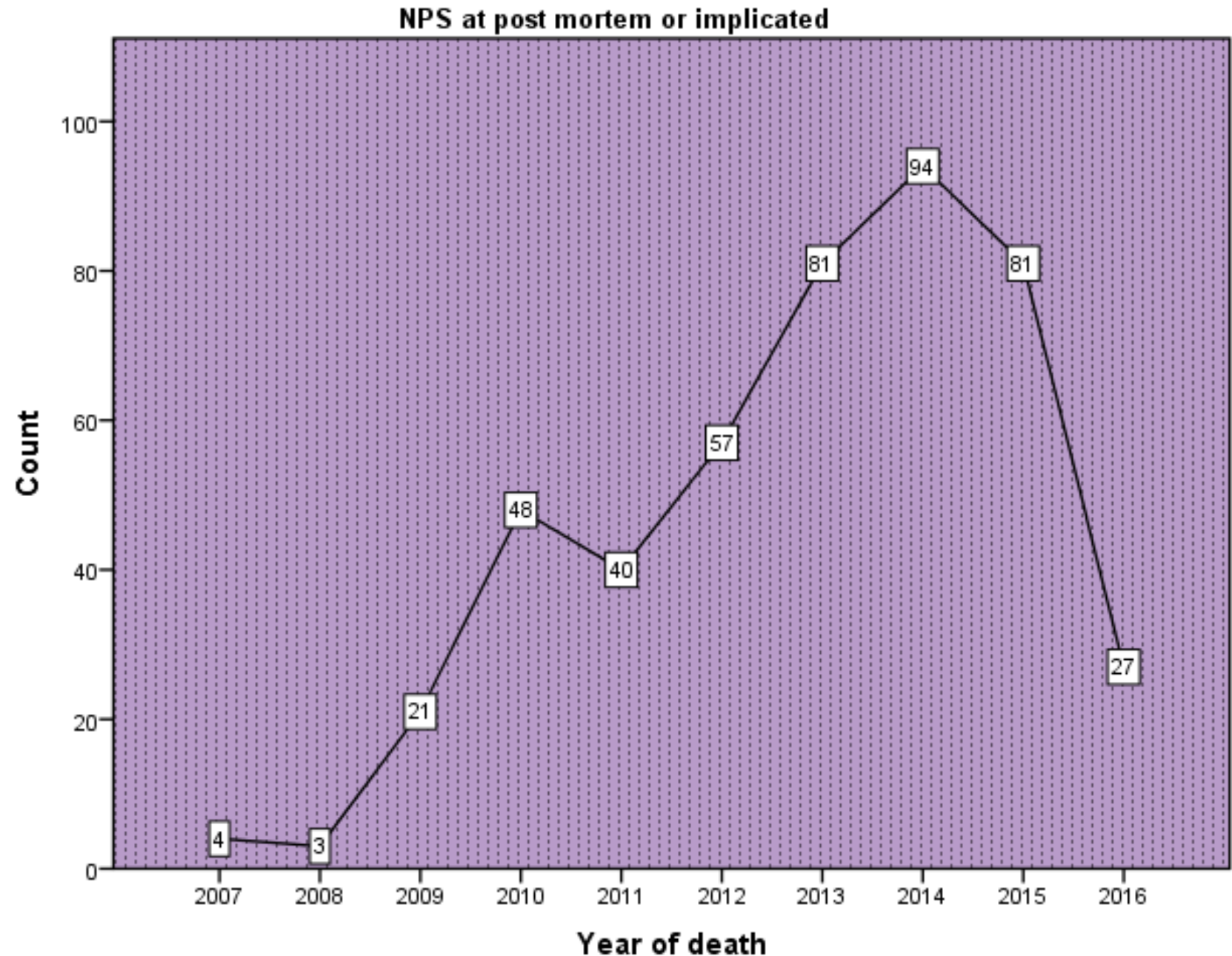
- ▶ Secondary analysis of dataset created from the NP-SAD database
- ▶ All deaths where NPS was found at Post Mortem or implicated in the death
- ▶ From first mentions in 2007 to 2016 (lag due to reporting process post inquest)
- ▶ Dataset: NPS cases = 456, non NPS = 9,700



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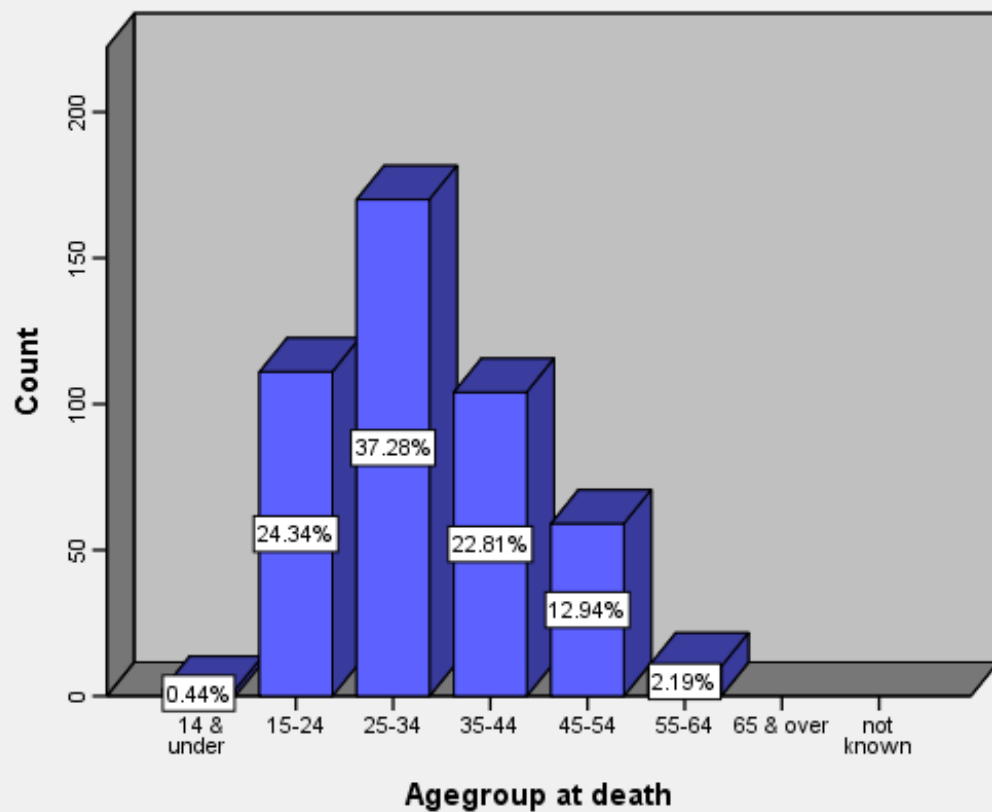
Reported NPS deaths by year

Included as NPS:
Aminoindanes (MDAI)
Amphetamine type (i.e. MPA)
Benzofurans (i.e. 5-APB)
Cathinones (Mephedrone)
Ketamine (Methoxetamine)
Piperazides & Piperidines ('ivory Wave')
Synthetic cannabinoids
Opioid type (fentanyl)
Tryptamines (5-meo DALT)

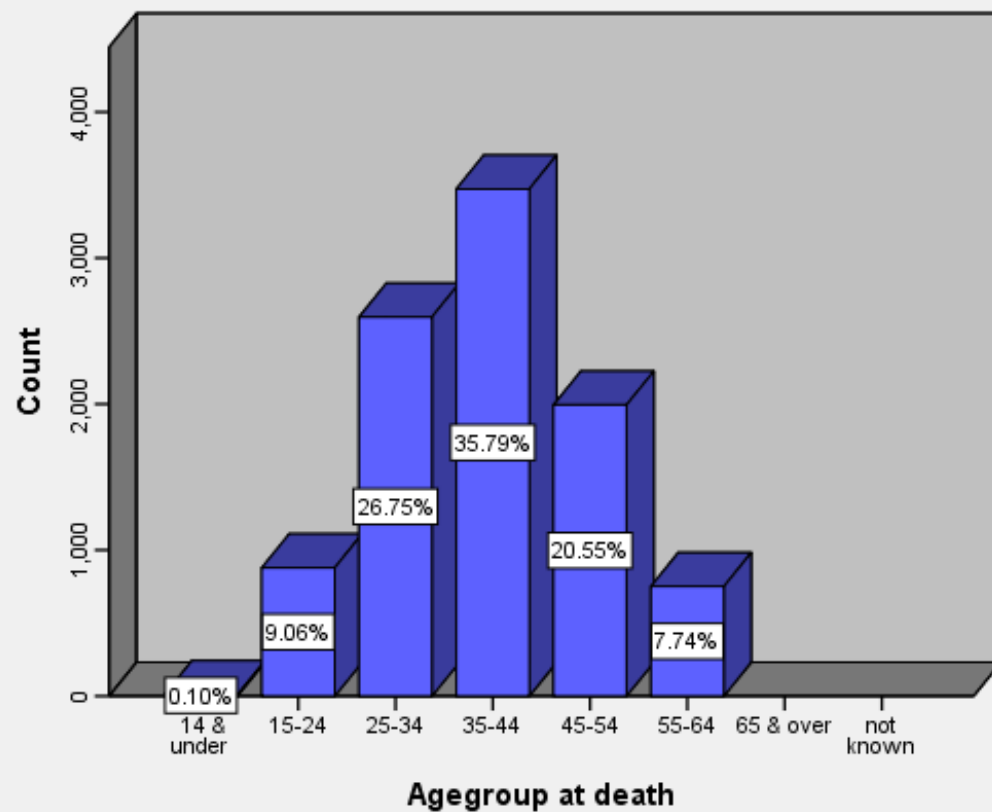


Age at death: (means = 32.5 vs 38.6)

NPS as defined by PHE for AR2014 at post mortem or implicated: Yes

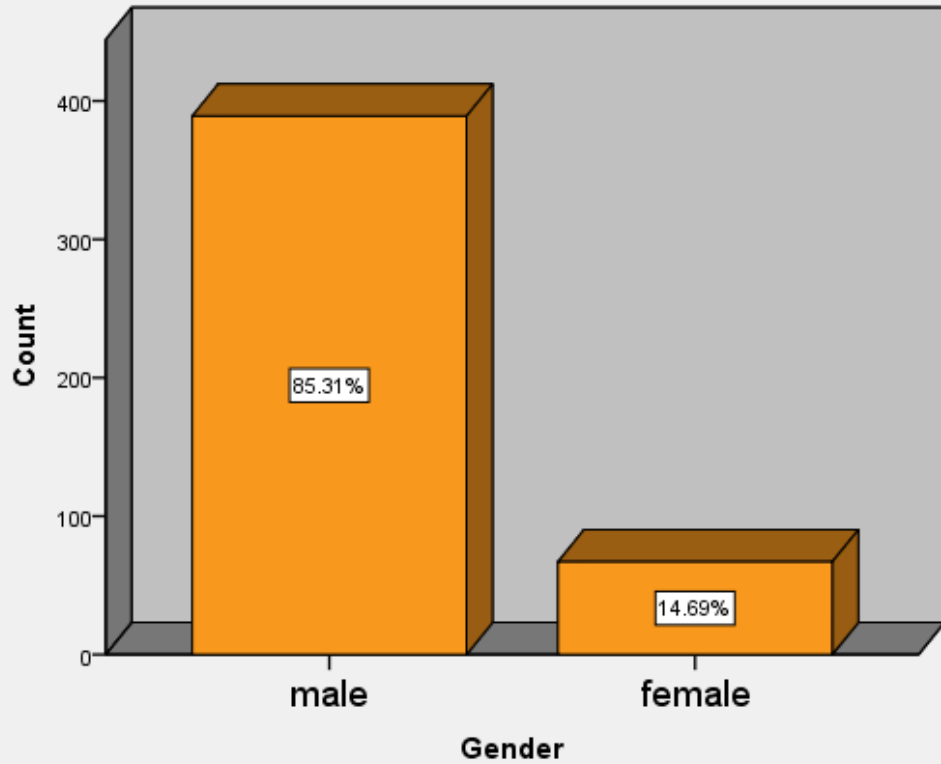


NPS as defined by PHE for AR2014 at post mortem or implicated: No

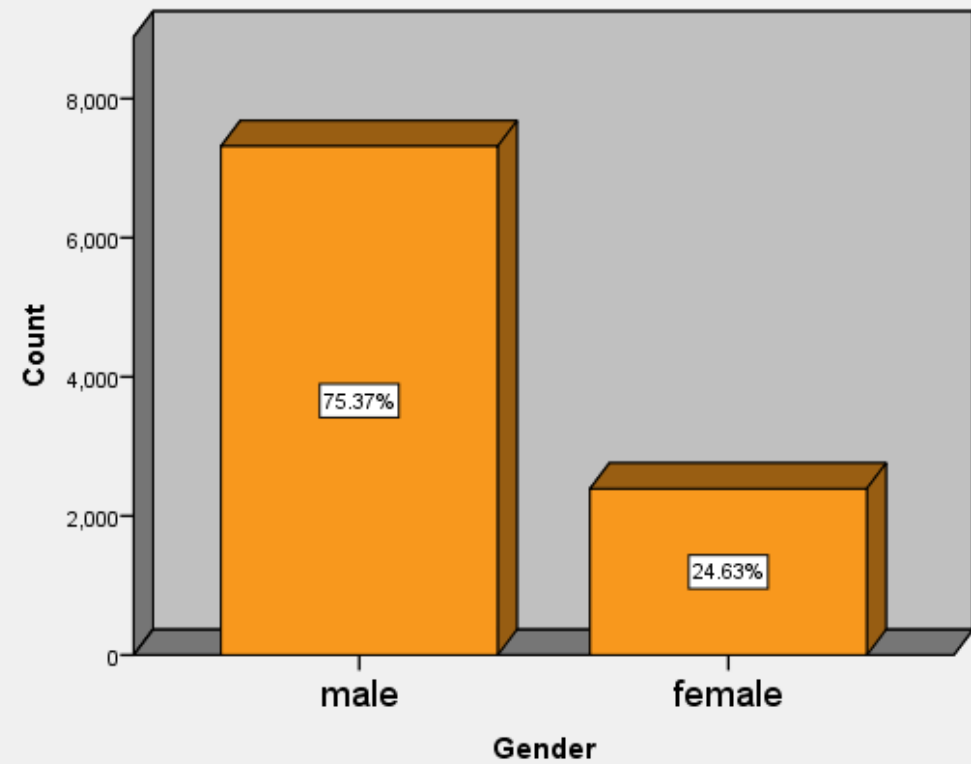


GENDER: (female 85% vs 75%)

NPS CASES

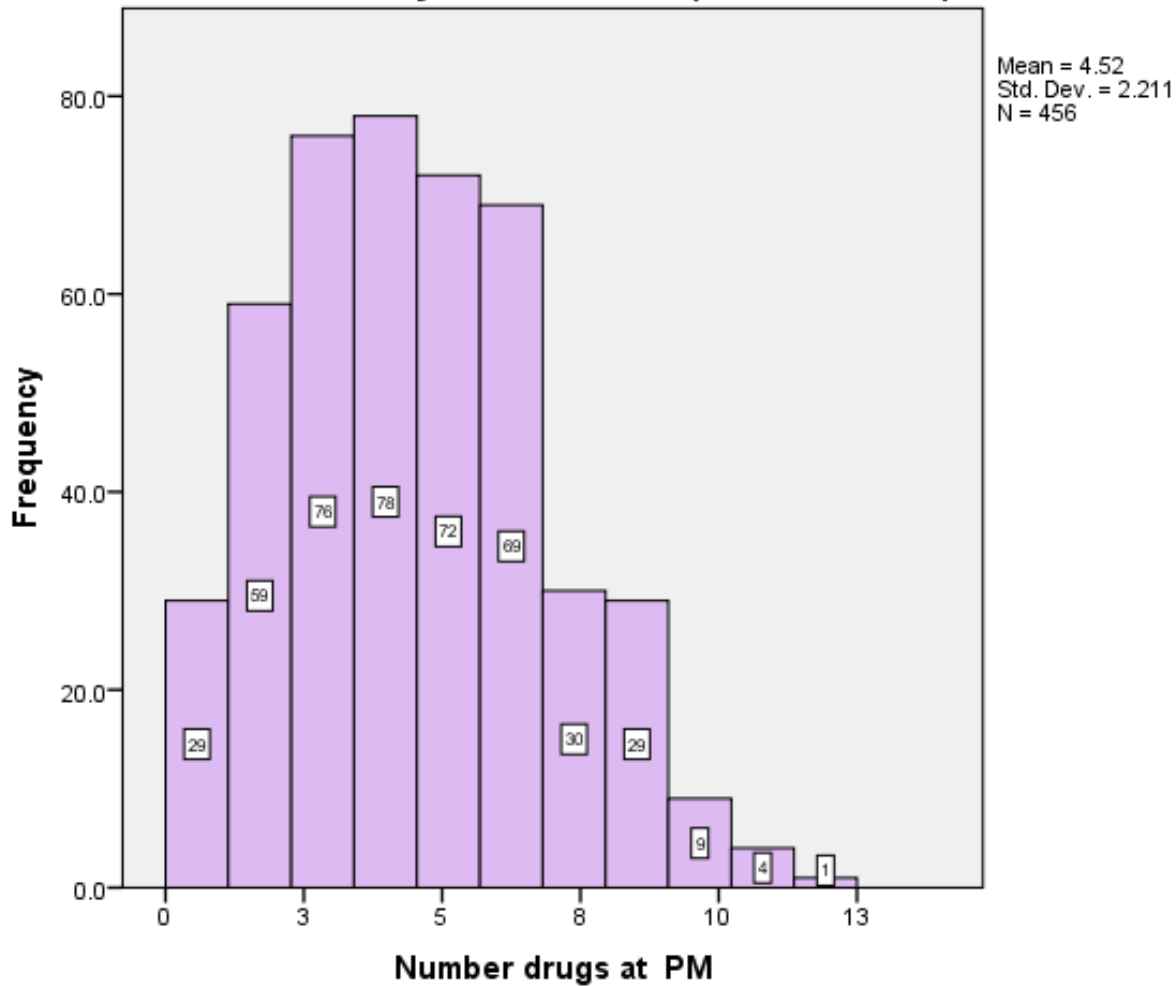


NON NPS CASES

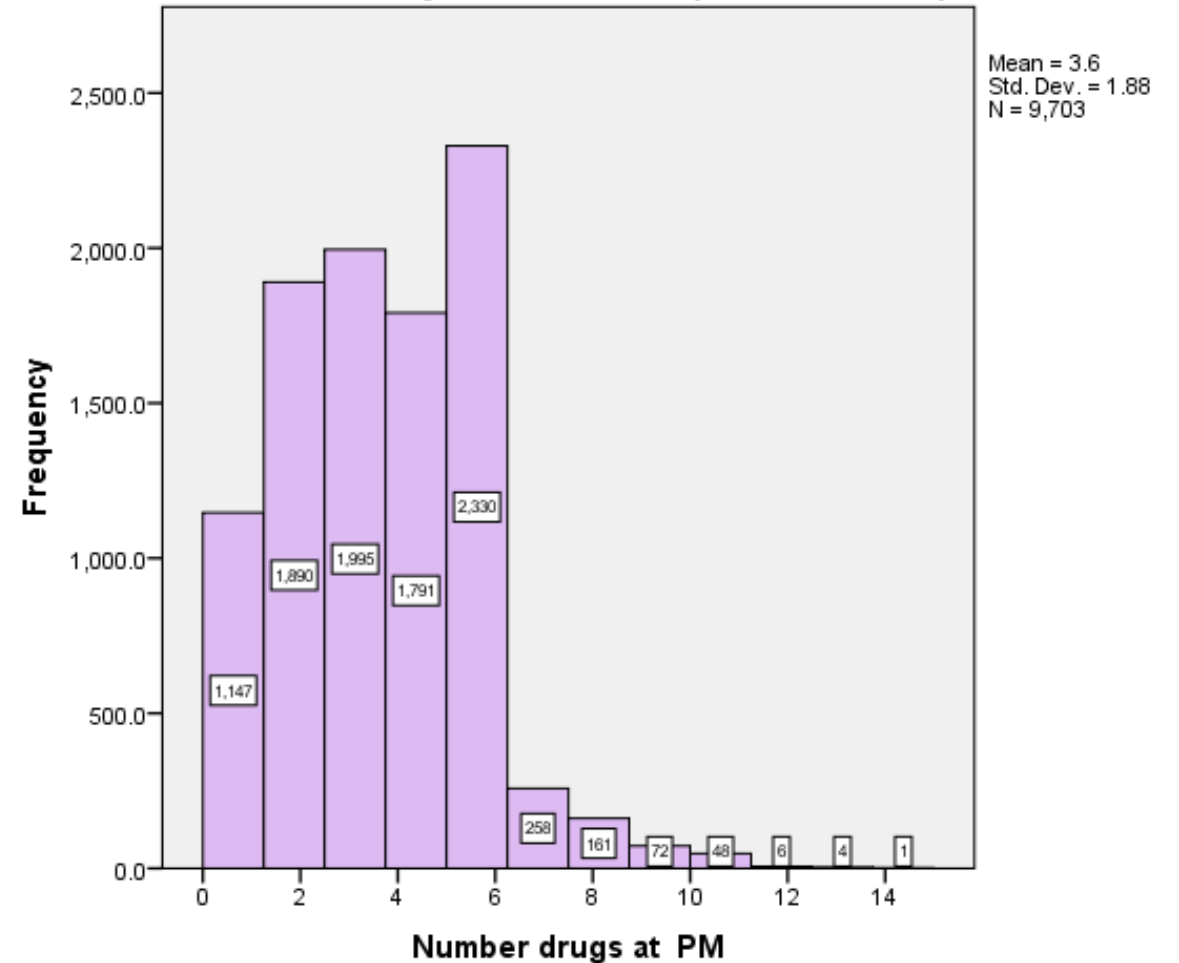


Number of drugs present at PM

NPS as defined by PHE for AR2014 at post mortem or implicated: Yes



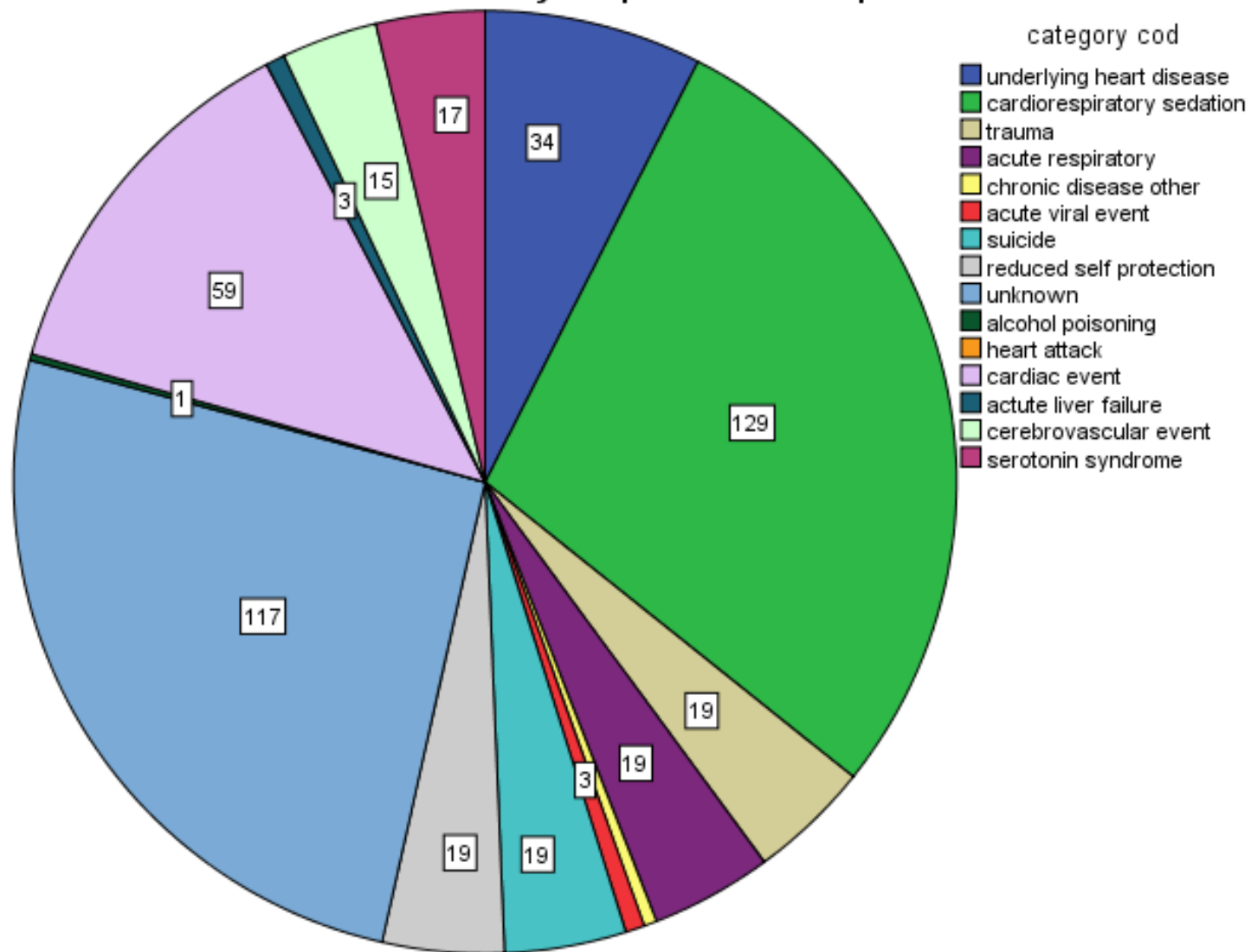
NPS as defined by PHE for AR2014 at post mortem or implicated: No



Category of cause of death

Collapsed categories from coroner narrative and definition, ICD10 CoD, type of drug at PM (sedative, stimulant, serotogenic).

NPS as defined by PHE post mortem or implicated



Substance group	opioid type	Synthetic cann	Benzo-furans	cathinones	Phenethyl-amines	Ketamine	Amphet-amines
gabapentin	8						
pregabalin	15						
Fentanyl/ acetylfentanyl	4						
AH-7921	2 (1)						
oxycodone	4						
MPA, PMA, PMMA							73
APB derivatives			17				
NON MEPHEDRONE				81 (4)			
MEPHEDRONE METHYLONE				171			
METHOX-ETAMINE						39	
DOI etc					14		
TFMPP					43		
2-methox-phenidine					18 (3)		
ethylphenidate					33 (2)		
5F-, Chm, Fub, AKB, etc		25 (2)					
totals	34 (6%)	27 (5%)	17 (3%)	256 (46%)	113 (20%)	39 (6%)	73 (13%)

To be determined...

- ▶ Links between substance, dose, interactions and cause of death.
- ▶ Current bias in reporting/testing of substances
- ▶ links between substance type and demographics
- ▶ Further comparisons between NPS deaths and non-NPS deaths (i.e. opiates/cocaine) inc. significance analysis
- ▶ Comparison between pre and post prohibition

