## Autopsy, histological and toxicological findings in deaths associated with NPS:

FORENSIC SCIENCE INTERNATIONAL

an autopsy case study

## **Population and Methods**

Diagnosis
"death associated
with NPS"
(n = 12)

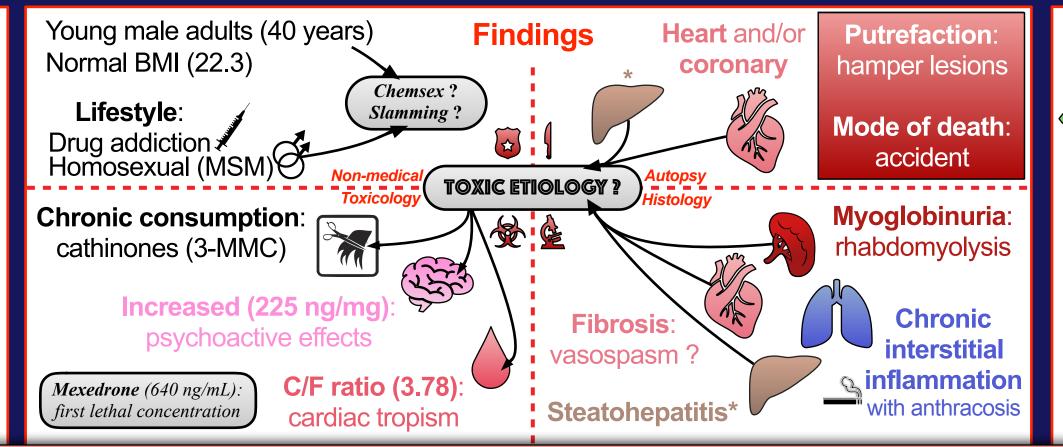


Retrospective study (2016-2021)





Autopsy,
histology,
toxicology
(hair and organs)



## **Perspectives**



Quantity of hair (or bristles): to improve toxicological data

Prospective study (epidemiology)



## Conclusion

Levasseur et al, 2022

Macroscopic and microscopic lesions observed were: (1) cardiovascular; (2) hepatic; (3) neurological; (4) renal. Tissue redistribution was highlighted as increased in brain, and cardio-femoral ratio suggests a cardiac tropism or a release from the reservoir organs.

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C/F ratio = cardio-femoral ratio

3-MMC = 3-methylmethcathinone

NPS = new psychoactive substances
MSM = men who has sex with men