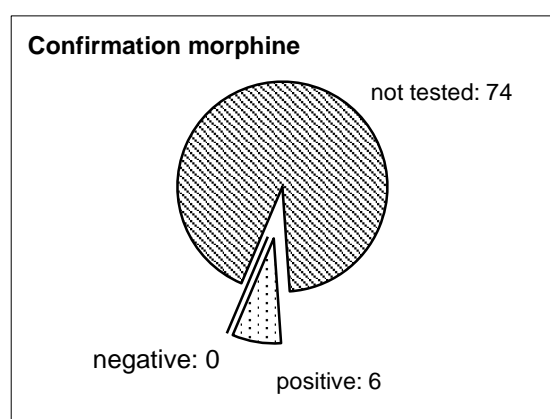
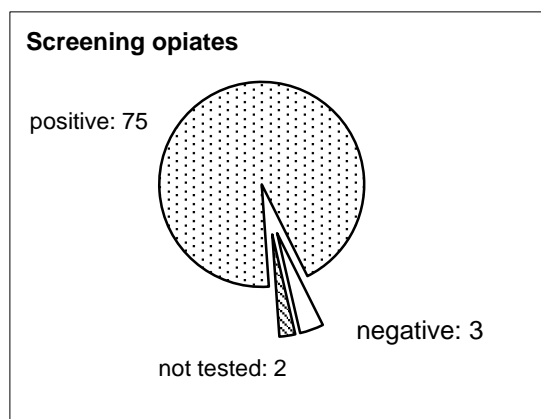


## DOA Round 2019.1A

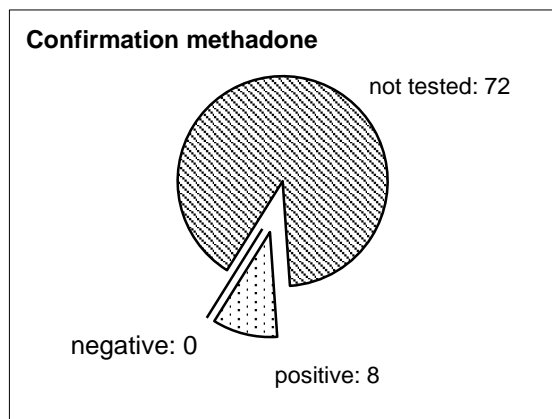
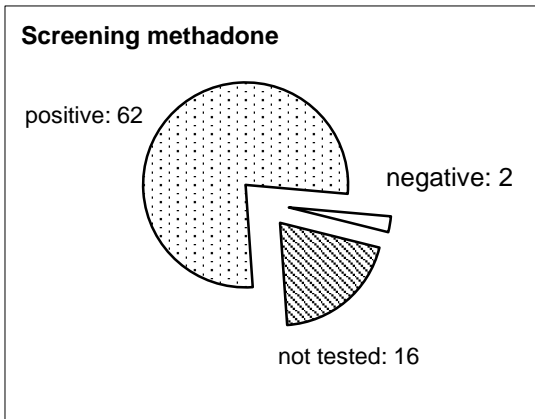
**Composition:** urine spiked with morphine 612 µg/l, methadon 506 µg/l and hydroxyethylflurazepam 629 µg/l.

Results:

Opiates: screening positive (>300 µg/l)					
Summary statistics:					
number of laboratories: 71					
screening:	pos.	neg.	not tested	FP*	FN*
	75=94%	3=4%	2=3%	0	3=4%
confirmation:	pos.	neg.	not tested		
6-MAM	0=0%	4=5%	76=95%	0	0
morphine	6=8%	0=0%	74=93%	0	0
codeine	0=0%	4=5%	76=95%	0	0



Methadone: screening positive (>300 µg/l)					
Summary statistics:					
number of laboratories: 80					
screening:	pos.	neg.	not tested	FP*	FN*
methadone	62=78%	2=3%	16=20%	0	2=3%
EDDP	0=0%	8=10%	72=90%	0	0
confirmation:	pos.	neg.	not tested		
methadone	8=10%	0=0%	72=90%	0	0
EDDP	1=1%	6=8%	73=91%	1=14%	0

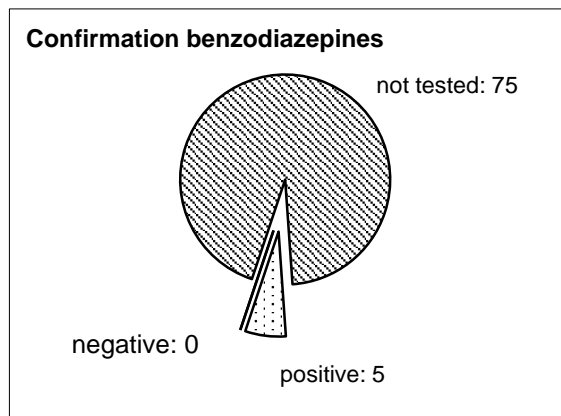
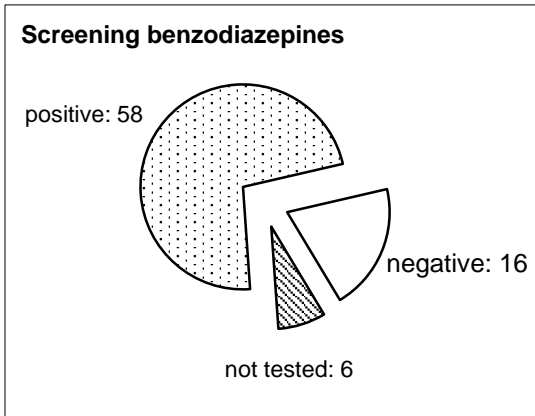


## Benzodiazepines: screening positive (>200 µg/l)

### Summary statistics:

number of laboratories: 80

screening:	pos.	neg.	not tested	FP*	FN*
	58=73%	16=20%	6=8%	0	16=22%
confirmation:	pos.	neg.	not tested		
	5=6%	0=0%	75=94%	0	0



## Discussion by dr. T.M. Bosch:

This was a urine spiked with morphine 612 µg/L, methadone 506 µg/L and hydroxyethylflurazepam 629 µg/L.

Flurazepam has a very short half-life. Shortly after administration, the concentration of hydroxyethylflurazepam is high. Later the desalkylflurazepam concentration will rise, see sample B. The desalkylflurazepam has a very long half-life.

Of the 80 submissions, 16 laboratories reported negative benzodiazepine screening. In the confirmation analysis, there is 1 laboratory that has identified lormetazepam instead of hydroxyethylflurazepam. This must be taken into consideration.

Most laboratories still screen for methadone instead of EDDP, its metabolite. It is more elegant to screen for EDDP, just like screening for the metabolite benzoylecgonine with the cocaine screening. There are 2 laboratories that reported a negative result for the methadone screening. That is not allowed with this high concentration.

For morphine, there are only 3 laboratories that screen negative, 2 of which are rapid tests. The semi-quantitative values during the screening strongly correspond with the spiked quantity. For the confirmations there is a high deviation (484-901 µg/L).

Laboratory 3260 does not score well on both morphine and methadone screening. Please pay attention to this. Is this a sample substitution?