

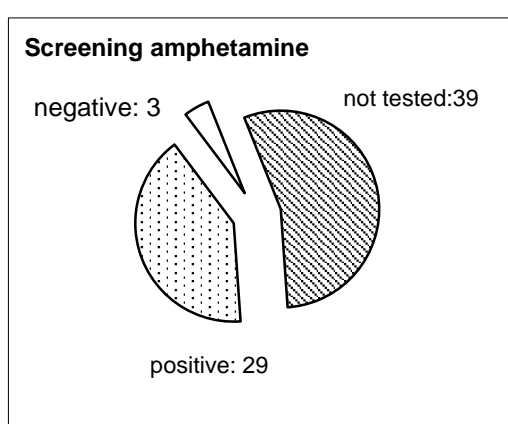
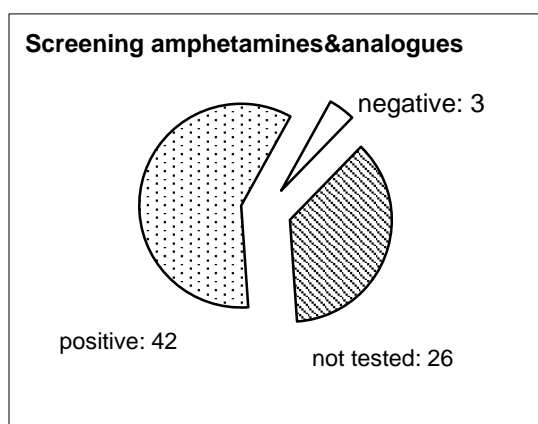
## DOA Round 2016.1A

**Casus:** Urine from a visitor to a discotheque.

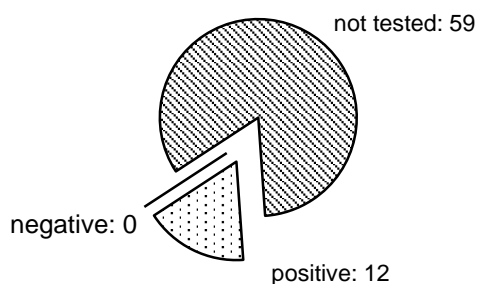
**Composition:** urine spiked with dexamphetamine 2061 µg/l, desmethyldiazepam 626 µg/l and ethanol 0,494 g/l.

Results:

Amphetamines: screening positive (>1000 µg/l)					
Summary statistics:					
number of laboratories: 71					
screening:	pos.	neg.	not tested	FP*	FN*
amphetamines & analogues	42=59%	3=4%	26=37%	0	3=7%
amphetamine	29=41%	3=4%	39=55%	0	3=9%
methylamphetamine	0=0%	25=35%	46=65%	0	0
MDMA	0=0%	20=28%	51=72%	0	0
MDA	0=0%	0=0%	71=100%	0	0
MDEA	0=0%	0=0%	71=100%	0	0
confirmation:	pos.	neg.	not tested		
amphetamine	12=17%	0=0%	59=83%	0	0
methylamphetamine	0=0%	7=10%	64=90%	0	0
MDA	0=0%	6=8%	65=92%	0	0
MDMA	0=0%	7=10%	64=90%	0	0
MDEA	0=0%	6=8%	65=92%	0	0



## Confirmation amphetamine



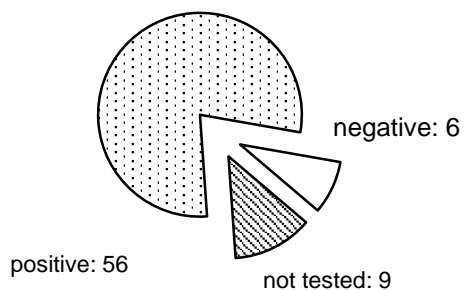
## Benzodiazepines: screening positive (>200 µg/l)

### Summary statistics:

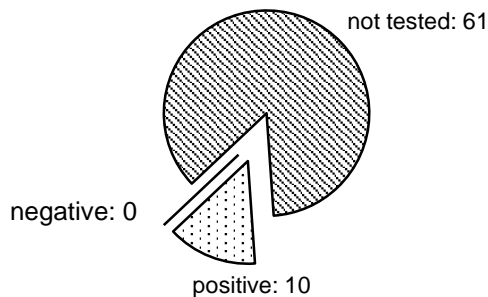
number of laboratories: 71

screening:	pos.	neg.	not tested	FP*	FN*
	56=79%	6=8%	9=13%	0	6=10%
confirmation:	pos.	neg.	not tested		
	10=14%	0=0%	61=86%	0	0

## Screening benzodiazepines



## Confirmation benzodiazepines

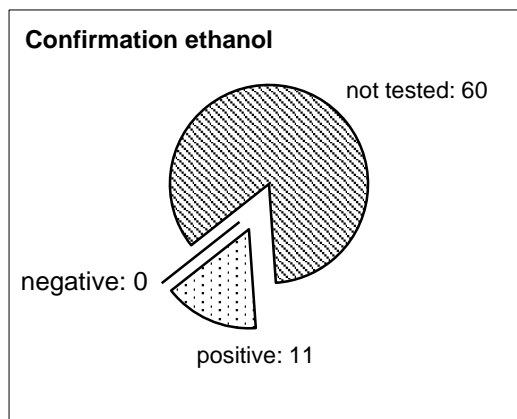
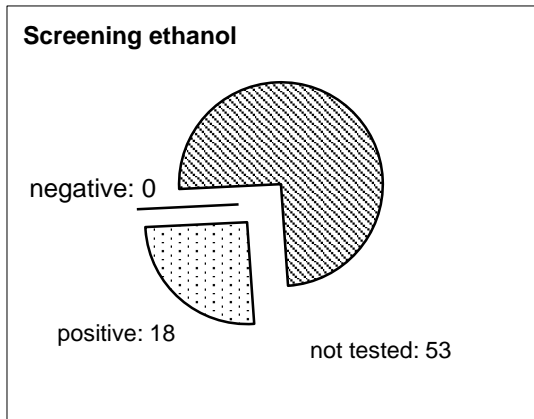


## Ethanol: screening positive (>0,1 g/l)

### Summary statistics:

number of laboratories: 71

screening:	pos.	neg.	not tested	FP*	FN*
ethanol	18=25%	0=0%	53=75%	0	0
EtG	8=11%	0=0%	63=89%	0	0
confirmation:	pos.	neg.	not tested		
ethanol	11=15%	0=0%	60=85%	0	0



## Discussion by drs. P.G.M. Zweipfenning:

This was blanc urine spiked with dexamphetamine 2061 µg/L, desmethyldiazepam (= nordazepam) 626 µg/L and ethanol 0,494 g/L (Ethylglucuronide positive, but not specified by us. *N.B. EtG will be incorporated in this DOA control program shortly!*)

The screening for “amphetamine analogues” is reported the most frequently. 3x False negative, of which 1 Lab twice (nr 158). 6 Labs claim to use an amphetamine selective test. Here are 3 false negatives, of which 2x the same as before (nr. 158). Nr 158 reports to deglucuronate. This is not relevant for amphetamine.

With the benzodiazepines test type 6c (Triage, 5 out of 6 participants report negative) performs badly. What further strikes is the large differences in calibration range. As upper reporting limits >800 up to >5000 µg/L are reported. In this test only 10x deglucuronidation is reported. This could be effective for anti-bodies with low affinity to the benzodiazepine-glucuronides (Of course not in this sample with spiked nordazepam).

Lab nr. 217 claims the presence of another not specified benzodiazepine in high concentration. Well, we did not put it in the sample.

Ethanol: Especially for clinical (= not forensic) applications: Good quantitative results, screenings as well as confirmations.