

DOA Round 2015.1B

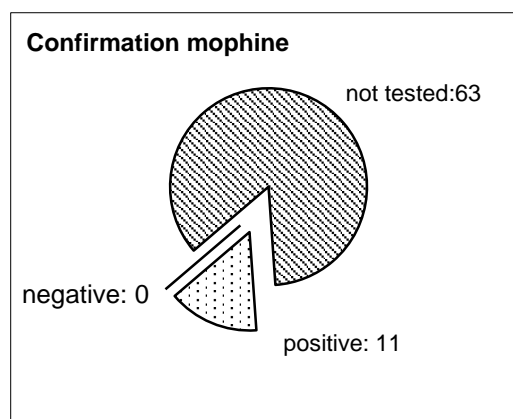
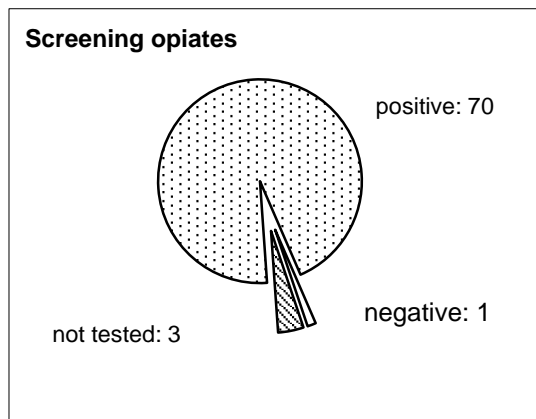
Casus:

Patient from a rehabilitation center.

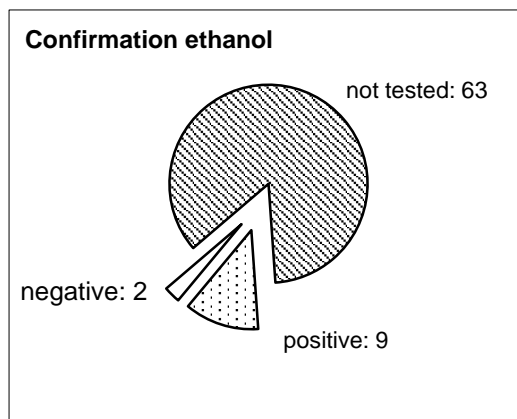
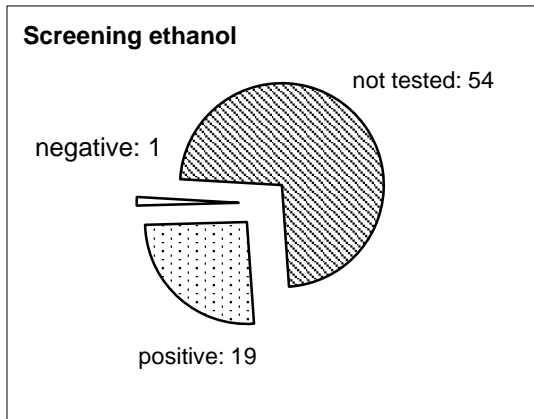
Composition: urine spiked with spiked with morphine 2015 µg/L and ethanol 0.816 g/L

Results:

Opiates: screening positive (>300 µg/l)					
Summary statistics:					
number of laboratories: 74					
screening:	pos.	neg.	not tested	FP*	FN*
	70=95%	1=1%	3=4%	0	1=1%
confirmation:	pos.	neg.	not tested		
6-MAM	1=1%	5=7%	68=92%	1=17%	0
morphine	11=15%	0=0%	63=85%	0	0
codeine	1=1%	5=7%	68=92%	1=17%	0



Ethanol: screening positive (>0,1 g/l)					
Summary statistics:					
number of laboratories: 74					
screening:	pos.	neg.	not tested	FP*	FN*
	19=26%	1=1%	54=73%	0	1=5%
confirmation:	pos.	neg.	not tested		
	9=12%	2=3%	63=85%	0	2=18%



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

This was (blanc) urine spiked with morphine 2015 µg/L and ethanol 0.816 g/L. Also two clearly positive values.

For ethanol the mean values of the enzymatic methods as well as the GC determinations are excellent. The S.D. is somewhat higher, but still very good for clinical and DOA-testing purposes.

Only 20 labs tested for alcohol, 54 did not!

Only Lab nr. 3216 reports ethanol negative. It is also in their remark, so it is not a clerical error. (As if that would not be serious.)

The urine (from a volunteer that consumed alcohol the evening before producing the urine) contained EtG. This was not spiked so we also did not know the exact concentration, except that it would be high. All six labs that tested for it, found it positive. No values other than >2000 µg/L were reported.

Among all opiate results there was one false negative: the same lab as the one that missed the THCCOOH. The other results can be regarded as good. Although the standard deviation in the results of the morphine confirmation are quite large (again).