

DOA Round 2015.2B

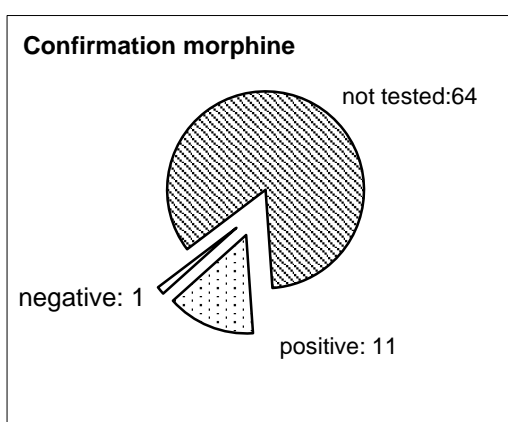
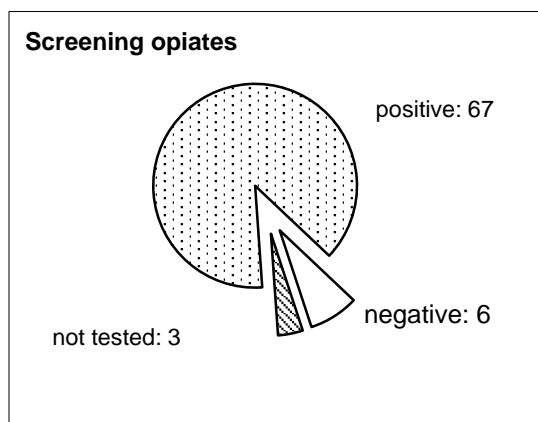
Casus:

Urine from a patient recently started treatment.

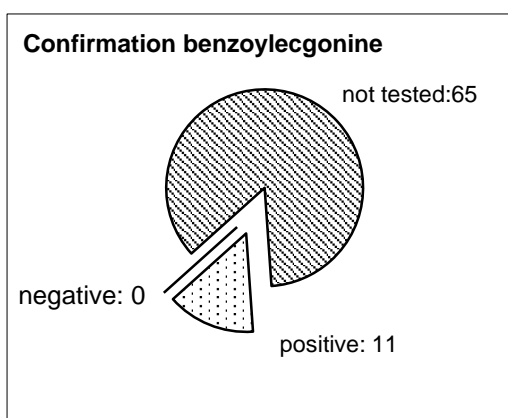
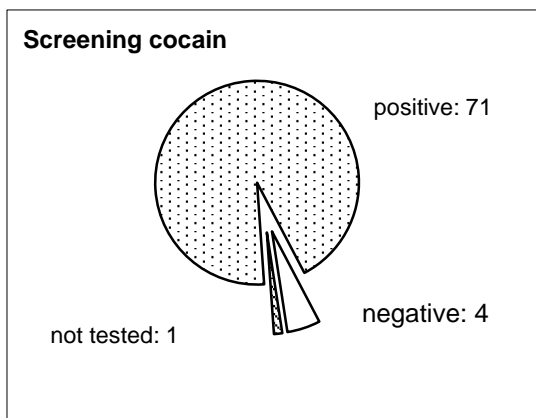
Composition: urine spiked with morphine 395 µg/l, benzoylecgonine 396 µg/l and THCCOOH ± 200 µg/l.

Results:

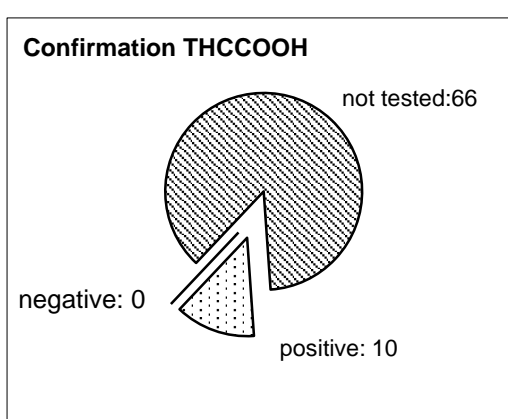
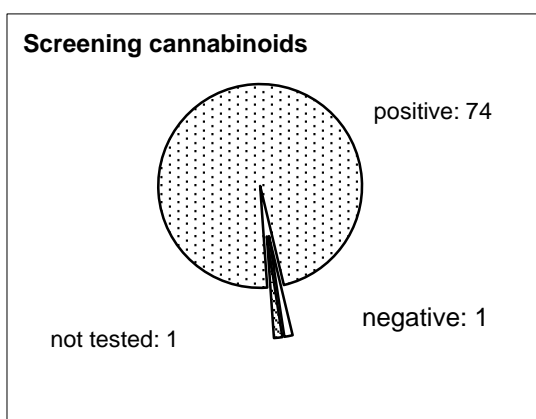
Opiates: screening positive (>300 µg/l)					
Summary statistics:					
number of laboratories: 76					
screening:	pos.	neg.	not tested	FP*	FN*
	67=88%	6=8%	3=4%	0	6=8%
confirmation:	pos.	neg.	not tested		
6-MAM	0=0%	5=7%	71=93%	0	0
morphine	11=14%	1=1%	64=84%	0	1=12%
codein	0=0%	5=7%	71=93%	0	0



Cocain: screening positive (>300 µg/l)					
Summary statistics:					
number of laboratories: 76					
screening:	pos.	neg.	not tested	FP*	FN*
	71=93%	4=5%	1=1%	0	4=5%
confirmation:	pos.	neg.	not tested		
benzoylecgonine	11=14%	0=0%	65=86%	0	0



Cannabinoids: screening positive (>50 µg/l)					
Summary statistics:					
number of laboratories: 76					
screening:	pos.	neg.	not tested	FP*	FN*
	74=97%	1=1%	1=1%	0	1=1%
confirmation:	pos.	neg.	not tested		
benzoyllecgonine	10=13%	0=0%	66=87%	0	0



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

This was (blanc) urine spiked with morphine 395 µg/L, benzoyllecgonine (BE) 396 µg/L and THCCOOH. With the THCCOOH there appeared a problem. Unfortunately was however that later turned out that something was wrong with the standard used for spiking. We will have to do in this round with the information that the THCCOOH concentration of at least around 200 µg/L.

All three comfortably above the respective cut-off values. So all three should give positive results.

Opiates: The mean value of all quantitative immuno assay results is 413 µg/L (105%) with an SD of 23 µg/L (6%) is not bad for a semi-quantitative determination. Although 6 labs reported negative. Of

which 5 with a (quick/ point of care test) and 1 lab does not specify its test. In total 30 labs used a quick test/ point of care test. So 20% of them reported false negative. Worrying, specially if one considers that these tests are sometimes used in patient care.

BE: 4x false negative. All 4 of type 6 out of 29 type 6 tests. The quantitative screening tests gave a mean value of 389 µg/L (98%) with an SD of 37 µg/L (9%). Fine.

Cannabis: Of the labs that do report a figure as result in the screening (N = only 24) the mean value is 202 µg/L with an SD of 67 µg/L (31% of the mean !). The calibration curve of (semi)quantitative immuno assays is relatively short. So many labs report > 100 or > 200 µg/L. All labs reported cannabis positive. A unique unanimity.

To conclude an other positive remark: Of all other immuno assays performed and reported not a single one was positive.