

DOA Round 2015.3B

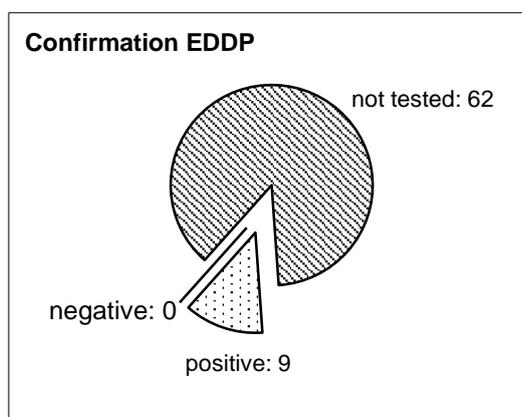
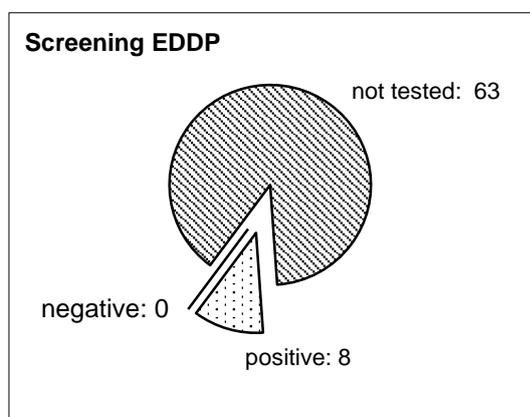
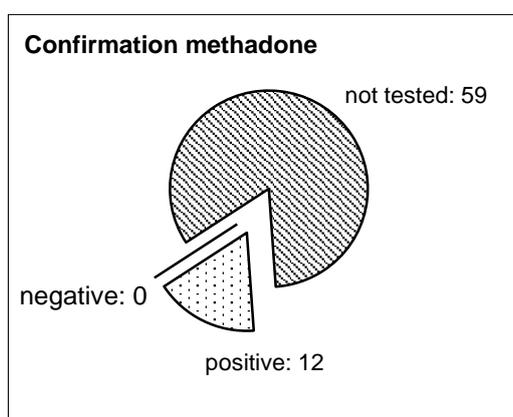
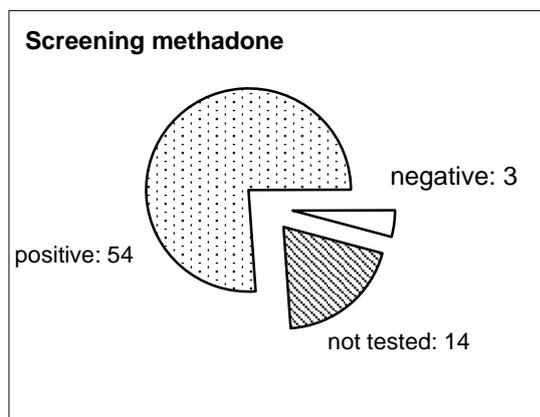
Casus:

Sample send to your lab for routine drug testing

Composition: urine spiked with methadone 397 µg/l, EDDP 402 µg/l and oxycodon 1026 µg/l.

Results:

Methadone: screening positive (>300 µg/l)					
Summary statistics:					
number of laboratories: 71					
screening:	pos.	neg.	not tested	FP*	FN*
methadone	54=76%	3=4%	14=20%	0	3=5%
EDDP	8=11%	0=0%	63=89%	0	0
confirmation:	pos.	neg.	not tested		
methadone	12=17%	0=0%	59=83%	0	0
EDDP	9=13%	0=0%	62=87%	0	0



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

This was (blanc) urine spiked with methadone 397 µg/L, EDDP 402 µg/L and oxycodone 1026 µg/L.

Although both spiked, **methadone** as well as its metabolite **EDDP** were present.

All labs (8) that tested for EDDP did this correctly positive. Of 57 labs that tested for the mother substance methadone, 3 reported it negative. All three of these were done with type 6 (quick) tests.

To the advantages of testing for EDDP instead of methadone I referred earlier.

Oxycodone is one of the most frequently abused substances in the USA. In many countries it is a controlled substance (in NL on list 1 of the Opiumwet.)

Although it is a semi synthetic opioid (often synthesised from the natural alkaloid thebaine) none of the opiate tests pick it up. Two out of the 71 participants reported positive on the basis of a screening with LC/MS.

General Remark

Recently I observed two contradicting phenomena's.

One of the participants to our DOA scheme, working on one of the Dutch Antilles islands pointed out that he reports for his USA-based customers according to US-SAMSHA guidelines. In these guidelines some cut-off values are considerably higher than those we use. E.g. for opiates this is 2000 instead of 300 µg/L. This results for him in many "wrong" scores when judged in the light of our standard cut-offs.

Working this way is however completely correct according to the advice to communicate the cut-off values with your customer.

On the other hand there is a proposal for lower cut-off values.

That is in the second version of a document of the organisation that calls itself the EWDTS (European Workplace Drug Testing Society): The "European Guidelines for Workplace Drugs Testing in Urine (2015-05-29 version 02)". In this document lower cut-off values is proposed for cocaine metabolite 150 (instead of 300) µg/L. As compared to version 1.0 (d.d. 2002) of this document.