

DRUID - Workpackage 3 - intermediate results !

On the occasion of the TIAFT conference in Geneva dd 23rd August 2009 the first intermediate results of Workpackage 3 of the DRUID study were published. The target of the Workpackage 3 (WP3) was to examine the sensitivities, specificities and accuracy of the saliva drug test devices that were recommended by the DRUID WP1. The table below shows the performing institutes and their countries, the saliva drug test devices and the respective status of this evaluation. It has to be observed that Finland and Belgium performed a Roadside Study, the Netherlands performed a Roadside Study and a Coffeeshop Testing. According to what was also noted in the conclusion of the conference the results of the Coffeeshop Testing has to be assessed critically as there the donors were positive in any case and had high drug concentrations.

Chart presenting the saliva drug tests measured according to the recommendation of DRUID WP1							
operating institutes / countries	Dräger (DRUG Test 5000)	Branan (ORATECT III)	Varian (Oralab 6)	Securetec (Drugwipe 5+)	MAVAND (RapidSTAT)	Biosens (Biosens)	Cozart (Cozart DDS)
NHI (Finland) Roadside Study	NO	NO	NO	YES result available	YES result available	NO	NO
Ugent (Belgium) Roadside Study	YES result not available yet	NO	YES result available	YES result not available yet	YES result not available yet	NO	NO
SWOV (the Netherlands) Roadside Study	YES result available	NO execution was not possible	NO	NO	YES result of the former test of 2007 available, results from actual test not available yet	YES result not available yet	NO
SWOV (the Netherlands) Coffeeshop Study	YES result available	YES result available	NO	NO	YES result not available yet	YES result not available yet	NO

NO = This test was not evaluated, YES = This test was evaluated

Result MAVAND Finland: The results were presented taking into consideration 2 aspects: first the evaluation according to the cut-offs of the manufacturer and secondly according to the envisaged cut-off values of the DRUID Organization. It must be pointed out that the cut-off value the DRUID Organization set for the THC is 1 ng/ml. All results show good values in specificity and sensitivity for all drugs. Especially in the evaluation of the THC the Rapid STAT shows considerably better values (80% - 90%) than its competitors' products (40% - 60%). Only the Rapid STAT test achieved a 80%-90% result in THC during the Roadside Study. Another competitor product also achieved these results, however not in the Roadside-Study (50%-60%), but in the Coffeeshop Study (80%-90%) that should be viewed with a critical eye.

Evaluation based on the test cut-off values											
	AMP	MET	BZO	THC	COC	OPI	n	n	n	n	n
Sensitivity	75.00%	80.00%	80.00%	80.00%	80.00%	100%	100%	100%	100%	100%	100%
Specificity	90.00%	90.00%	90.00%	90.00%	90.00%	100%	100%	100%	100%	100%	100%
Prevalence	17%	2.0%	13%	17%	0.0%	3.0%	100	101	101	101	101
n	100	101	100	101	101	101	100	101	101	101	101
N	104	104	104	104	104	104					

	AMP	MET	BZO	THC	COC	OPI	n	n	n	n	n
Sensitivity	70.00%	80.00%	80.00%	70.00%	80.00%	100%	100	100	100	100	100
Specificity	90.00%	90.00%	90.00%	90.00%	90.00%	100%	100	100	100	100	100
Prevalence	17%	2.0%	13%	17%	0.0%	3.0%	100	101	101	101	101
n	100	101	100	101	101	101	100	101	101	101	101
N	104	104	104	104	104	104					

Citation Conclusions RapidSTAT :

- Amphetamine and methamphetamine tests: very good specificity, sensitivity quite high for amphetamine
- Sensitivity quite high for THC
- Sensitivity for benzodiazepines quite high, better results for specificity
- Specificity for cocaine and opiates was excellent, but more positive cases are needed to evaluate sensitivity.

The data of the saliva drug test devices tested in WP3 will be published during the next weeks. Please use the following link:

Conclusions

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- Sensitivity quite high for THC
- Sensitivity for benzodiazepines quite high, better results for specificity
- Specificity for cocaine and opiates was excellent, but more positive cases are needed to evaluate sensitivity

http://www.druid-project.eu/clin_007/nn_107534/sid_D198E8A085C3050B67C7A719374DF871/nsc_true/Druid/EN/deliverables-list/deliverables-list-node.html?_nnn=true



Ulrichstr. 23 fon +49(0)7473-95 80-28
 72116 Mössingen fax +49(0)7473-95 80-29
 Germany email info@mavand.de
 internet www.mavand.de