KKGT

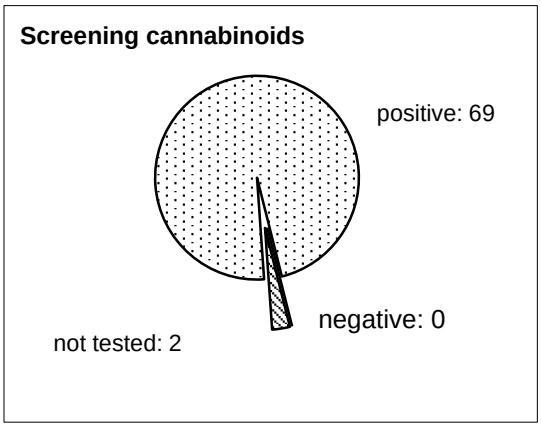
# DOA Round 2016.1B

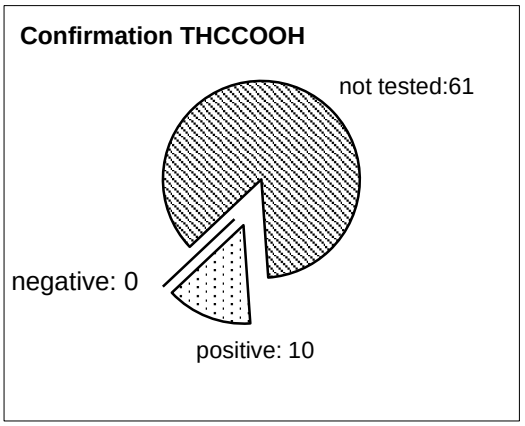
***Casus:*** *Urine from a participant of a dance event.*

**Composition: urine spiked with THCCOOH 252 µg/ and GHB 50 mg/l.**

Results:

| **Cannabinoids: screening positive (>50 µg/l)** | | | | | |
|---|---|---|---|---|---|
| **Summary statistics:** | | | | | |
| **number of laboratories: 71** | | | | | |
| *screening:* | pos. | neg. | not tested | FP* | FN* |
| | 69=97% | 0=0% | 2=3% | 0 | 0 |
| *confirmation:* | pos. | neg. | not tested | | |
| | 10=14% | 0=0% | 61=86% | 0 | 0 |




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

This was (blanc) urine spiked with THCCOOH 252 µg/L and GHB 50 mg/L.

All participants reported cannabis positive. Fine! Although the remark must be made that the range in quantitative results is enormous: 60 – 290 µg/L, mean value 168 µg/L. Perhaps here the effect reported in literature that cannabis results will be lower when a sample is send and stored for a while. That the mean value of the confirmation results is practically identical, might very well be a coincidence when one takes into consideration the large variation in the small number of results.

This time a low value for GHB. Question would be: is it possible to be distinguished from endogenously formed GHB. For this decision an informal cut-off of 10 mg/L is widely used. So here the verdict must be “positive”. Only 15 Labs reported GHB. Lab nr 3247 uses a higher cut-off value (50 mg/L). Although their value is not bad (43/50 = 86%), they conclude negative since 43 < 50. The GC and LC/MS based methods as well as the enzymatic method (2f) score quite well.