

Table S1. Oral fluid drug testing devices used between 2011 and 2016: substances detected and cut-offs [14].

Oral fluid drug device	Analyte group ^a (Confirmed analyte) Cut-off (ng/mL)					Year range	Tests performed (n)‡
	Cannabis (delta-9- tetrahydrocannabinol)	Cocaine (Cocaine*, Benzoylecgonine**)	Amphetamine (d-amphetamine)	Methamphetamine (Methamphetamine, MDMA***)	Opioids (Morphine, Codeine****)		
Dräger DrugTest® 5000	25.0	20.0*	50.0	35.0 75.0***	20.0	2011-2016	44012
Alere™ DDS®2 Mobile Test System	25.0	30.0**	50.0	50.0	40.0	2015-2016	13055
DrugWipe® 5S	30.0	30.0**	50.0	25.0 25***	10.0****	2015-2016	6531

^a Data provided by Spanish National Traffic Agency: points of sensitivity of the investigative teams. Meeting GT 47. Madrid

MDMA= 3,4-metilendioxi-metanphetamine

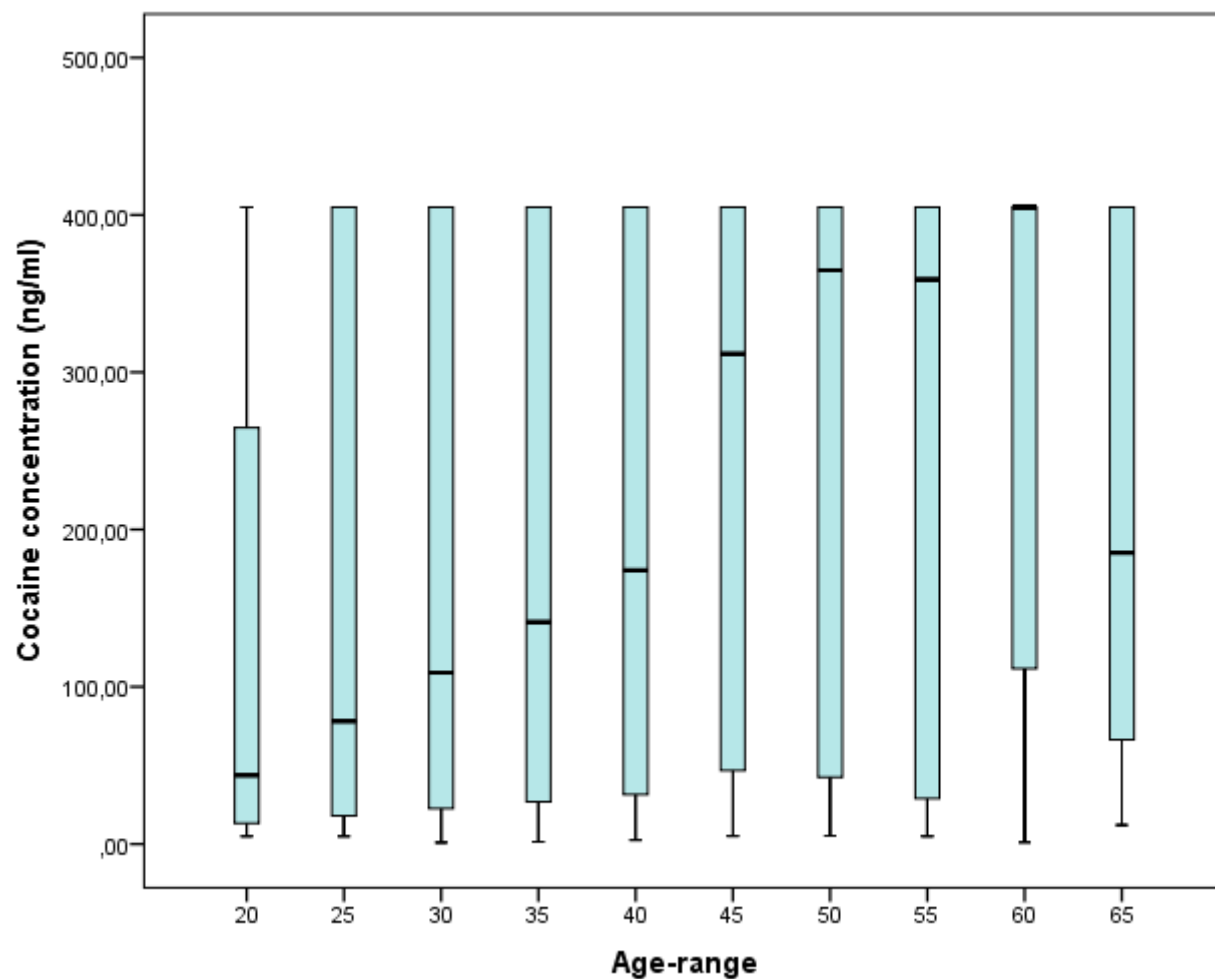
‡Between 2011 and 2016, the roadside drug-testing device was unknown for 1646 tests.

Table S2. Roadside drug tests performed between 2011 and 2016 and gender distribution of the Spanish population and the Spanish driving population [14].

Year (n)	Test performed (Confirmed tests at laboratory)	Gender distribution of test confirmed at laboratory			Age distribution of test confirmed at laboratory		General population*		Driver population**		Cocaine and/or Benzoylcegonine positive results
	N (n)	Male n (%)	Female n (%)	Unknown n (%)	Known n (%)	Unknown n (%)	Total n	Male Female n n	Total n	Male Female n n	Total n (%)
2011 to 2016	179,645 (65,244)	34,691 (53.2)	1,338 (2.1)	29,215 (44.8)	35,073 (53.8)	30,171 (46.2)					31,707 (48.60)
2011	743 (62)	35 (56.5)	2 (3.2)	25 (40.3)	0	62 (100)	46,818,216	23,104,303 23,711,613	26,133,510	15,545,721 10,587,789	24 (38.71)
2012	3,487 (1,087)	720 (66.2)	24 (2.2)	343 (31.6)	0	1,087 (100)	46,727,90	23,017,758 23,710,132	26,323,971	15,606,700 10,717,271	557 (51.24)
2013	4,563 (2,017)	22 (1.1)	1 (0.05)	1,994 (98.9)	0	2,017 (100)	46,512,199	22,877,461 23,634,738	26,401,660	15,616,630 10,785,030	1,001 (49.63)
2014	29,643 (9,991)	19 (0.2)	3 (0.03)	9,969 (99.8)	0	9,991 (100)	46,449,565	22,826,546 23,623,019	26,217,202	15,317,999 10,869,203	4,315 (4.19)
2015	76,040 (25,966)	8,969 (34.5)	316 (1.2)	16,681 (64.2)	8,952 (34.5)	17,014 (65.5)	46,440,099	22,807,464 23,632,635	26,350,036	15,362,190 10,987,846	12,994 (50.04)
2016	65,169 (26,121)	24,926 (95.4)	992 (3.8)	203 (0.8)	26,121 (100)	0	46,527,039	22,834,227 23,692,812	26,514,026	15,377,544 11,136,482	12,816 (49.06)

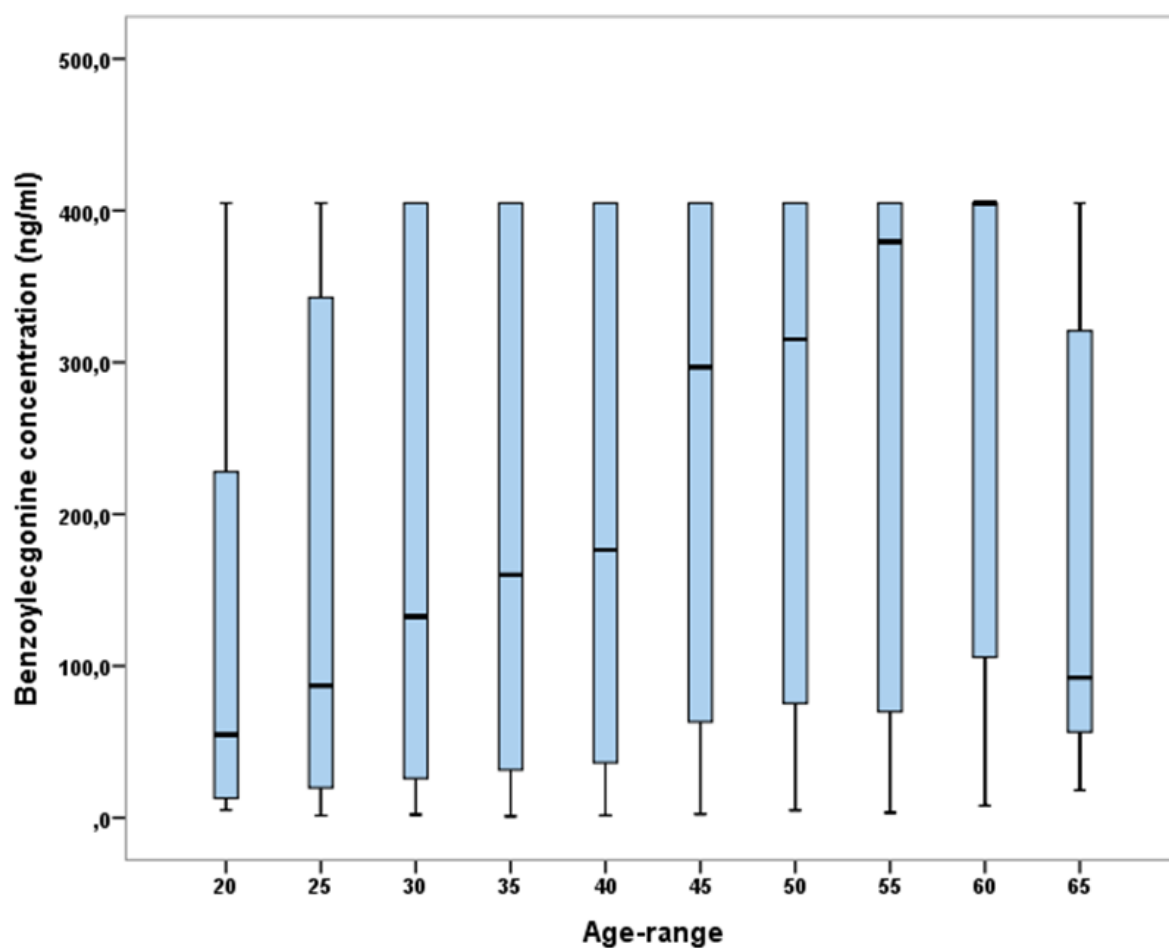
Table S3. Cocaine and benzoylecgonine concentration deciles for positive tests between 2011 and 2016.

Deciles	Cocaine			Benzoylecgonine		
	Cocaine (all cases)	Cocaine and benzoylecgonine positive cases	Cocaine (without BE)	Benzoylecgonine	Cocaine and benzoylecgonine positive cases	BE (without cocaine)
	Cocaine			BE		
	(ng/mL)	(ng/mL)	(ng/mL)	(ng/mL)	(ng/mL)	(ng/mL)
10	9,60	20,40	5,80	8,88	9,26	5,30
20	18,30	41,00	6,70	17,80	19,20	6,18
30	33,80	74,30	7,90	36,88	39,60	7,20
40	64,80	135,80	9,20	71,10	75,80	8,20
50	131,92	249,30	11,00	132,00	137,90	9,90
60	276,10	405,00	13,45	228,31	236,90	13,24
70	405,00	405,00	17,00	385,34	394,39	18,91
80	405,00	405,00	22,10	405,00	405,00	32,52
90	405,00	405,00	32,30	405,00	405,00	65,97



X-axis=5-year age distribution. Y-axis=cocaine concentration (ng/mL).

Figure S1. Distribution of medians and interquartile ranges for oral fluid cocaine concentrations, by age, for cocaine-positive cases.



X-axis=5-year age distribution. Y-axis=benzoylecgonine concentration (ng/mL)

Figure S2. Distribution of medians and interquartile ranges for oral fluid benzoylecgonine concentrations, by age, for benzoylecgonine-positive cases