

Reproduced analysis of FARS data

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Results

Percentages of drivers testing positive by drug type, sex, and year group

Drug type	F 1999-2002	F 2003-2006	F 2007-2010	M 1999-2002	M 2003-2006	M 2007-2010
Alcohol	26.4	24.3	27.1	43.2	42.9	43.3
Cannabinoid	2.8	5.8	7.4	6.0	10.7	12.2
Depressant	3.5	3.9	4.9	2.0	2.5	3.2
Narcotic	4.3	5.0	7.3	2.2	3.4	4.0
Other	5.8	6.8	7.5	4.4	4.6	4.3
Stimulant	7.3	9.3	8.9	10.7	12.3	9.5

Figure 1: Prevalence of nonalcohol drugs in fatally injured drivers by year and age group

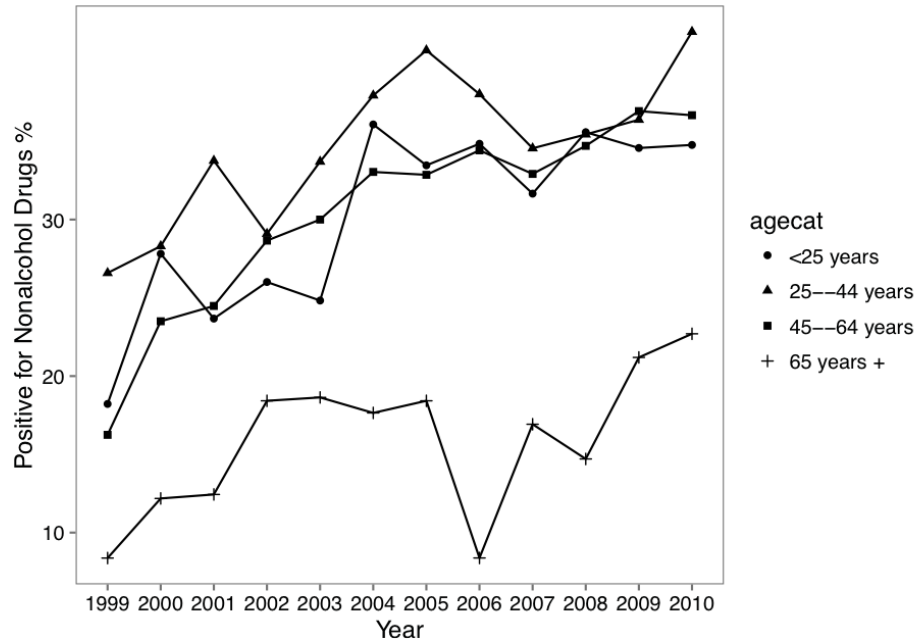


Figure 2: Prevalence of nonalcohol drugs in fatally injured drivers by year and drug type

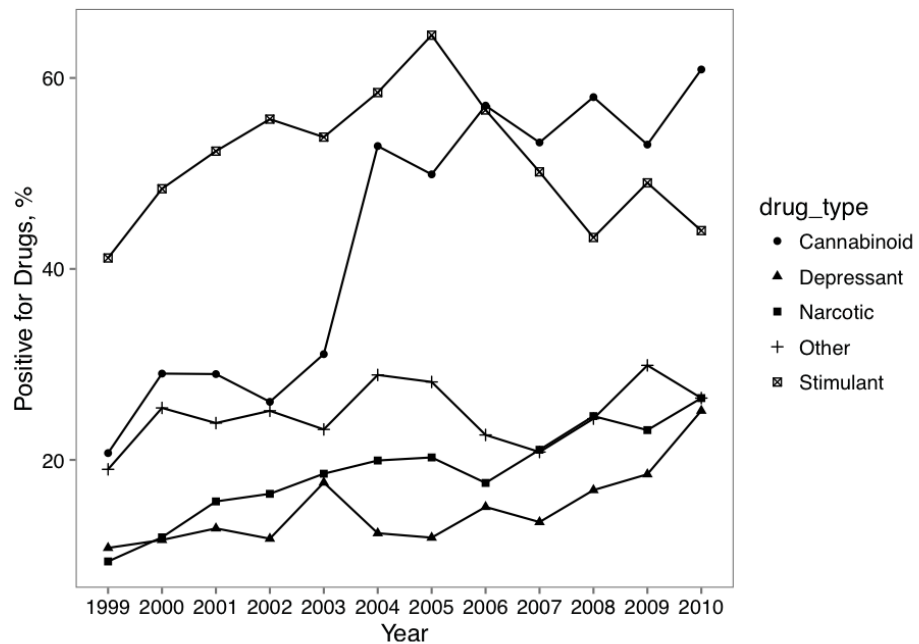
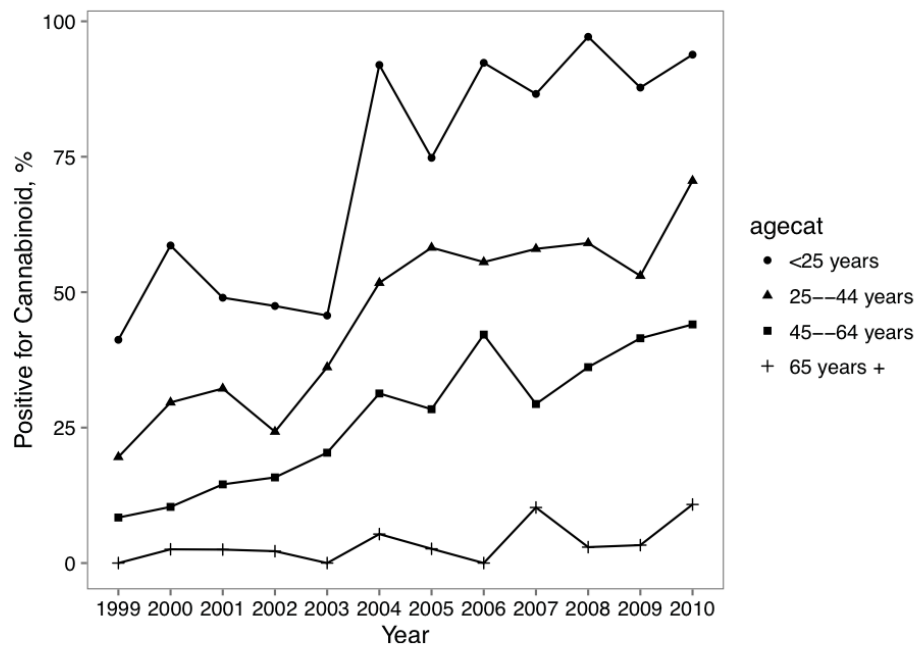


Figure3: Prevalence of cannabinoid drugs in fatally injured drivers by year and age group



Prevalence of drugs in fatally injured drivers for 1999 and 2010 by drug type

Drug type	1999	2010
Alcohol	38.7%(36.5%,40.9%)	39.1%(36.7%,41.5%)
Cannabinoid	4.1%(3.2%,5.1%)	12.2%(10.5%,13.8%)
Depressant	2.2%(1.5%,2.8%)	5%(3.9%,6.1%)
Narcotic	1.9%(1.2%,2.5%)	5.3%(4.2%,6.4%)
Other	3.8%(2.9%,4.7%)	5.3%(4.2%,6.4%)
Stimulant	8.2%(6.9%,9.5%)	8.8%(7.4%,10.2%)

Statistics for testing for trend in prevalence of drugs over study years by drug type using Cochran-Armitage trend test

drug	Z	p.value
Alcohol	1.21	0.228
Nonalcohol	11.51	0.000
Narcotic	6.80	0.000
Depressant	4.85	0.000
Stimulant	0.36	0.720
Cannabinoid	13.75	0.000
Other	1.45	0.146

Statistics for testing for trend in prevalence of drugs over study years by drug type using Waldtest of logistic regression coefficient for “year”

drug	Z	p.value
Alcohol	1.21	0.228
Nonalcohol	11.49	0.000
Narcotic	6.76	0.000
Depressant	4.83	0.000
Stimulant	-0.36	0.720
Cannabinoid	13.62	0.000
Other	1.45	0.146