Table A.1: Percentages of passenger cars in fatal crashes in three speed groups and four DUI groups among whom each of the crash, driver, car, and road characteristics were present.

			Speed		DUI				
			•	Not					
		EXC^1	INAP ¹	speeding	ALC^1	$DRUG^{1}$	MIX^1	Sober	
	N	(N=226)	(N=354)	(N=1369)	(N=177)	(N=66)	(N=59)	(N=1647)	
Crash									
Single vehicle crash	1 949	65 %	32 %	14 %	74 %	42 %	66 %	15 %	
Coll. with pedestrian/cyclist	1 949	4 %	17 %	12 %	8 %	8 %	3 %	12 %	
Fatality in own car, total	1 949	86 %	75 %	52 %	89 %	77 %	90 %	55 %	
Fatality in own car; crashes with	1 471								
partner		59 %	63 %	43 %	56 %	61 %	70 %	46 %	
Fatally injured; crash with partner	1 471	49 %	42 %	58 %	47 %	39 %	50 %	57 %	
Nighttime (6pm-6am)	1 949	70 %	39 %	29 %	76 %	48 %	75 %	29 %	
Weekend (SatSun.)	1 949	59 %	32 %	25 %	60 %	29 %	47 %	26 %	
Winter (November-March)	1 949	23 %	53 %	42 %	33 %	33 %	31 %	43 %	
Slippery road	1 942	7 %	40 %	21 %	11 %	15 %	11 %	24 %	
<u>Driver</u>									
EXC ¹	1 949	100 %	0 %	0 %	42 %	24 %	36 %	7 %	
INAP ¹	1 949	0 %	100 %	0 %	29 %	26 %	19 %	17 %	
ALC ¹	1 949	33 %	14 %	4 %	100 %	0 %	0 %	0 %	
DRUG ¹	1 949	7 %	5 %	2 %	0 %	100 %	0 %	0 %	
MIX^1	1 949	9 %	3 %	2 %	0 %	0 %	100 %	0 %	
Unlicensed driver	1 716	17 %	10 %	5 %	20 %	35 %	37 %	2 %	
Unbelted driver, total	1 949	43 %	26 %	14 %	52 %	39 %	61 %	14 %	
Unbelted driver, fatally injured	942	48 %	30 %	23 %	58 %	44 %	60 %	20 %	
Age (years; mean)	1 926	26.9	37.7	46.4	31.5	37.7	30.4	44.0	
Male	1 930	95 %	85 %	73 %	94 %	83 %	92 %	76 %	
Young (< 25 years)	1 926	58 %	33 %	16 %	45 %	15 %	32 %	22 %	
Tired/ill/suicidal	1 949	14 %	17 %	24 %	14 %	23 %	19 %	22 %	
<u>Car</u>									
Old car (>10 years)	1 909	70 %	60 %	40 %	73 %	70 %	66 %	44 %	
Electronic Stability Control	1 949	12 %	13 %	21 %	11 %	15 %	5 %	20 %	
<u>Road</u>									
Speed limit 80-110	1 901	54 %	68 %	62 %	51 %	63 %	60 %	63 %	
Speed limit 30-50	1 901	15 %	16 %	14 %	28 %	12 %	14 %	13 %	
Rural area	1 949	85 %	85 %	84 %	84 %	86 %	86 %	84 %	
Traffic volume (AADT¹)	1 753	5 986	4 286	6 534	4425	5333	6743	6237	
Crash site curve	1 949	70 %	59 %	47 %	68 %	58 %	75 %	49 %	

¹EXC: Excessive speed; INAP: Inappropriate speed; ALC: Under the influence of alcohol; DRUG: Under the influence of drugs; MIX: Under the influence of alcohol and drugs; AADT: Annual Average Daily Traffic.

Table A.2: Unadjusted ORs with 95% confidence intervals (CI) from logistic regression with row variables as predictors and speed or DUI as dependent variables; statistically significant ORs in bold.

INAP ⁴ (vs. not										
	EXC ⁴ (vs. not speeding)		speeding)		ALC4 (vs. sober)		DRUG4 (vs. sober)		MIX4 (vs. sober)	
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI
<u>Crash</u>										
Single vehicle crash (vs. other)	11.607	(8.484; 15.88)	2.982	(2.273; 3.913)	16.142	(11.238; 23.185)	4.176	(2.517; 6.931)	11.053	(6.340; 19.268)
Coll. with pedestrian/cyclist (vs. other)	0.281	(0.136; 0.581)	1.564	(1.132; 2.161)	0.655	(0.378; 1.134)	0.580	(0.230; 1.46)	0.248	(0.060; 1.024)
Fatality in own car (vs. no fatality in	5.611	(3.804; 8.276)	2.840	(2.181; 3.699)	6.735	(4.144; 10.947)	2.754	(1.536; 4.937)	7.154	(3.058; 16.735)
own car)	0,011	(0.000,0.2,0)	2.0.0	(=::::,:::;)	01.00	(,,	20.01	(=====, ====,)		(0.000, 0.000)
Fatality in own car (vs. no fatality in	1.880	(1.18; 2.996)	2.180	(1.631; 2.914)	1.471	(0.798; 2.71)	1.785	(0.924; 3.451)	2.717	(1.038; 7.111)
own car) ¹		, , ,		, , ,		, , ,		, , ,		, , ,
Fatally injured crash partner (vs. no	0.684	(0.432; 1.082)	0.527	(0.396; 0.7)	0.686	(0.373; 1.26)	0.514	(0.266; 0.994)	0.789	(0.326; 1.907)
crash partner fatality) ¹ Nighttime (6pm-6am) (vs. daytime)	5.770	(4.243; 7.847)	1.568	(1.229; 2.001)	7.621	(5.319; 10.92)	2.302	(1.404; 3.773)	7.174	(3.954; 13.014)
Weekend (SatSun.) (vs. other day)	4.345	(3.245; 5.818)	1.462	(1.134; 1.885)	4.173	(3.03; 5.746)	1.130	(0.656; 1.947)	2.524	(1.497; 4.257)
Winter (November-March) (vs. other day)				, , ,						
summer)	0.415	(0.299; 0.576)	1.591	(1.258; 2.012)	0.634	(0.456; 0.88)	0.650	(0.386; 1.095)	0.571	(0.325; 1.002)
Slippery road (vs. not slippery)	0.277	(0.161; 0.476)	2.580	(2.009; 3.314)	0.395	(0.244; 0.637)	0.563	(0.284; 1.115)	0.364	(0.155; 0.855)
<u>Driver</u>										
EXC (vs. not speeding)					15.555	(10.398; 23.27)	5.300	(2.831; 9.919)	8.501	(4.659; 15.512)
INAP (vs. not speeding)					4.483	(2.982; 6.74)	2.355	(1.293; 4.288)	1.862	(0.913; 3.800)
ALC (vs. sober)	15.555	(10.398; 23.27)	4.483	(2.982; 6.74)						
DRUG (vs. sober)	5.300	(2.831; 9.919)	2.355	(1.293; 4.288)						
MIX (vs. sober)	8.501	(4.659; 15.512)	1.862	(0.913; 3.8)						
Unlicensed driver (vs. licensed)	4.206	(2.667; 6.633)	2.421	(1.545; 3.795)	9.665	(5.962; 15.669)	20.638	(11.284; 37.747)	24.198	(12.908; 45.365)
Unbelted driver (vs. belted)	4.839	(3.567; 6.565)	2.252	(1.698; 2.988)	6.876	(4.959; 9.534)	4.129	(2.471; 6.900)	9.943	(5.784; 17.094)
Unbelted driver (vs. belted) ³	3.124	(2.164; 4.51)	1.479	(1.036; 2.112)	5.328	(3.628; 7.824)	3.061	(1.610; 5.822)	5.752	(3.026; 10.933)
Male (vs. female)	6.146	(3.393; 11.133)	1.957	(1.426; 2.686)	4.658	(2.504; 8.667)	1.543	(0.800; 2.978)	3.334	(1.324; 8.393)
Young (< 25 years) (vs. older)	7.245	(5.355; 9.801)	2.647	(2.031; 3.45)	2.970	(2.159; 4.084)	0.643	(0.325; 1.273)	1.710	(0.978; 2.99)
Tired/ill/suicidal (vs. other)	0.526	(0.354; 0.779)	0.650	(0.48; 0.882)	0.572	(0.369; 0.886)	1.022	(0.568; 1.839)	0.796	(0.409; 1.549)
<u>Car</u> Old car (>10 years) (vs. newer car)	3.759	(2.748; 5.142)	2.293	(1.803; 2.918)	3.446	(2.43; 4.888)	3.069	(1.779; 5.294)	2.527	(1.461; 4.371)
ESC (vs. no ESC)	0.524	(0.345; 0.794)	0.567	(0.406; 0.791)	0.503	(0.311; 0.813)	0.705	(0.356; 1.396)	0.211	(0.066; 0.680)
Road	0.324	(0.343, 0.794)	0.307	(0.400, 0.791)	0.303	(0.311, 0.613)	0.703	(0.550, 1.550)	0.211	(0.000, 0.000)
Speed limit 80-110 (vs. lower)	0.742	(0.558; 0.987)	1.312	(1.022; 1.684)	0.601	(0.438; 0.824)	1.003	(0.006; 1.676)	0.893	(0.523; 1.526)
Speed limit 30-50 (vs. higher)	1.094	(0.732; 1.634)	1.199	(0.866; 1.661)	2.616	(1.818; 3.764)	0.949	(0.446; 2.017)	1.081	(0.505; 2.313)
Rural area (vs. other)	1.056	(0.717; 1.557)	1.099	(0.794; 1.522)	0.974	(0.641; 1.482)	1.209	(0.591; 2.472)	1.217	(0.571; 2.594)
Crash site curve (vs. other)	2.578	(1.903; 3.491)	1.618	(1.276; 2.051)	2.211	(1.588; 3.079)	1.389	(0.844; 2.284)	3.002	(1.657; 5.436)
101 1 1 1 1 1 1 1 1 1	2.0.0	(1.505, 5.151)	1.010	/ /	C : 11 : : :	(1.500, 5.075)		DIAD I	1.002	, ,

¹ Only crashes with crash partner. ² Friday 6pm to Saturday 6 am and Saturday 6pm to Sunday 6am. ³Only fatally injured drivers. ⁴EXC: Excessive speed; INAP: Inappropriate speed; ALC: Under the influence of alcohol; DRUG: Under the influence of drugs; MIX: Under the influence of alcohol and drugs.

Table A.3: Adjusted ORs with 95% confidence intervals (CI) from multiple logistic regression with row variables as predictors and speed or DUI as dependent variables; statistically significant ORs in bold; model characteristics (N and Pseudo R2) in the bottom rows.

			INA	AP ⁴ (vs. not							
	EXC4 (vs. not speeding)		S	speeding)		ALC4 (vs. sober)		DRUG4 (vs. sober)		MIX4 (vs. sober)	
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI	
<u>Driver</u>											
EXC (vs. other)					8.041	(4.840; 13.36)	4.822	(2.009; 11.571)	6.117	(2.703; 13.844)	
INAP (vs. other)					3.043	(1.895; 4.888)	2.088	(1.051; 4.146)	0.773	(0.306; 1.954)	
ALC (vs. other)	8.769	(5.213; 14.751)	2.866	(1.782; 4.61)							
DRUG (vs. other)	4.248	(1.895; 9.521)	1.974	(1.015; 3.842)							
MIX (vs. other)	5.745	(2.649; 12.46)	0.927	(0.386; 2.224)							
Unlicensed driver (vs. licensed)	1.164	(0.638; 2.123)	1.300	(0.757; 2.234)	5.507	(3.118; 9.728)	17.952	(8.957; 35.977)	21.442	(10.240; 44.898)	
Unbelted driver (vs. belted)	1.749	(1.151; 2.657)	1.342	(0.957; 1.883)	3.546	(2.400; 5.240)	2.482	(1.314; 4.687)	7.059	(3.610; 13.804)	
Male (vs. female)	4.499	(2.317; 8.738)	1.799	(1.284; 2.522)	2.267	(1.152; 4.464)	0.899	(0.435; 1.856)	1.867	(0.669; 5.209)	
Young (< 25 years) (vs. older)	6.631	(4.536; 9.696)	2.214	(1.651; 2.969)	0.977	(0.640; 1.493)	0.144	(0.056; 0.368)	0.377	(0.168; 0.848)	
Tired/ill/suicidal (vs. other)	0.515	(0.307; 0.862)	0.725	(0.522; 1.006)	0.776	(0.466; 1.294)	0.917	(0.458; 1.838)	0.804	(0.360; 1.799)	
<u>Car</u>											
Old car (>10 years) (vs. newer car)	2.174	(1.427; 3.31)	1.974	(1.015; 3.842)	1.810	(1.154; 2.839)	2.558	(1.306; 5.013)	1.042	(0.516; 2.103)	
ESC (vs. no ESC)	1.239	(0.701; 2.19)	0.927	(0.386; 2.224)	1.147	(0.633; 2.079)	1.560	(0.670; 3.633)	0.299	(0.082; 1.093)	
Model characteristics											
N of observations	1364		1486		1579		1479		1472		
Pseudo R-square ⁵	0.331		0.085		0.268		0.230		0.326		

¹ Only crashes with crash partner. ² Friday 6pm to Saturday 6 am and Saturday 6pm to Sunday 6am. ³Only fatally injured drivers. ⁴EXC: Excessive speed; INAP: Inappropriate speed; ALC: Under the influence of alcohol; DRUG: Under the influence of drugs; MIX: Under the influence of alcohol and drugs. ⁵Pseudo R-square indicates the proportion of variance in the dependent variable that is explained by the predictor variables.