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Have the 2018 NSW sentencing reforms reduced the risk of re-offending?

Neil Donnelly, Min-Taec Kim, Sara Rahman and Suzanne Poynton

APPENDIX C

Full regression coefficients for results reported in Tables 3 and 4

Table C1. Logistic regressions, all offenders

		nding within months	Serious violent, property and drug re-offending within 12 free months		
Outcome Specification	Unadjusted	Adjusted	Unadjusted Adjusted		
Post-reforms	0.901 ***	0.975	0.903 ***	0.992	
	(0.021)	(0.025)	(0.026)	(0.032)	
Male		1.087 **		1.080 *	
		(0.035)		(0.042)	
Age categories (relative to 45 and older)					
18-24		1.786 ***		1.815 ***	
		(0.072)		(0.093)	
25-34		1.502 ***		1.583 ***	
		(0.057)		(0.077)	
35-44		1.520 ***		1.636 ***	
		(0.061)		(0.083)	
Aboriginal		1.314 ***		1.471 ***	
		(0.053)		(0.066)	
SEIFA Quartile (relative to Most advantaged)					
Most disadvantaged		1.265 ***		1.083	
		(0.054)		(0.058)	
Disadvantaged		1.155 ***		1.062	
		(0.050)		(0.058)	
Advantaged		1.175 ***		1.120 *	
		(0.051)		(0.061)	
Unknown		0.533 ***		0.639 ***	
		(0.047)		(0.072)	

Table C1. Logistic regressions, all offenders (Continued)

		ending within	Serious violent, property and drug		
		months	re-offending within 12 free months		
Outcome Specification	Unadjusted	Adjusted	Unadjusted	Adjusted	
Bail refused at first appearance (relative to		1 251 +++		1 252 +++	
On bail/Bail dispensed with/Other)		1.251 ***		1.352 ***	
Disa (valativa ta Civilta)		(0.078)		(0.090)	
Plea (relative to Guilty) No plea entered / other		2.259 ***		2.003 ***	
No piea entered / otner					
Not guilty		(0.079) 1.073		(0.082) 1.091	
Not guilty					
		(0.057)		(0.068)	
Court appearances with a proven offence in					
5 years prior to finalisation (relative to 0)					
1		2.216 ***		1.986 ***	
		(0.081)		(0.101)	
2+		4.381 ***		4.094 ***	
		(0.145)		(0.179)	
One or more prison sentences in the 5 years					
prior to finalisation		2.249 ***		2.617 ***	
		(0.092)		(0.111)	
The number of concurrent offences at index					
(relative to 0)					
1		1.173 ***		1.216 ***	
		(0.040)		(0.051)	
2+		1.406 ***		1.454 ***	
		(0.047)		(0.057)	
Principal offence (relative to Other)					
Violent principal offence		0.748 ***		0.995	
		(0.029)		(0.047)	
Serious property principal offence		1.384 ***		2.074 ***	
		(0.056)		(0.092)	
Any DV-related offence	1.090 *				
		(0.042)		(0.061)	
Constant	0.451 ***	0.077 ***	0.205 ***	0.026 ***	
	(0.007)	(0.004)	(0.004)	(0.002)	
N	35,392	35,390	35,114	35,112	
Akaike information criteria	43233.9	36213.9	31236.7	25952.0	

Note: Coefficients reported as odds ratios (OR).

Standard errors in parentheses

^{*} p < .05, ** p < .01, *** p < .001

Table C2. Logistic regressions. DV offenders

		nding within	Serious violent, property and drug			
		months		re-offending within 12 free months		
Outcome Specification	Unadjusted	Adjusted	Unadjusted	Adjusted		
Post-reforms	0.867 **	0.941	0.898	0.988		
	(0.045)	(0.053)	(0.055)	(0.065)		
Male		1.247 **		1.128		
		(0.094)		(0.098)		
Age categories (relative to 45 and older)		2062 444		2.074 +++		
18-24		2.062 *** (0.187)		2.071 ***		
25.24		(0.187) 1.758 ***		(0.221) 1.675 ***		
25-34		(0.146)		(0.166)		
35-44		1.439 ***		1.403 **		
33-44		(0.125)		(0.146)		
Aboriginal		1.305 ***		1.310 **		
Aboriginal		(0.097)		(0.108)		
Accessibility and Remoteness Index of		(0.037)		(0.100)		
Australia (relative to Major cities)						
Inner regional		1.162 *		1.011		
		(0.079)		(0.079)		
Outer regional/Remote(s)		1.225 *		1.009		
outer regional/termote(s)		(0.114)		(0.107)		
Unknown		0.567 **		0.661		
G.I.W. 6111.		(0.118)		(0.159)		
Bail refused at first appearance (relative to		(0.1.0)		(0.133)		
On bail/Bail dispensed with/Other)		1.178		1.267 *		
,		(0.121)		(0.139)		
Plea (relative to Guilty)		((3. 2.)		
No plea entered / other		1.661 ***		1.694 ***		
·		(0.193)		(0.215)		
Not guilty		1.002		1.003		
		(0.090)		(0.104)		
Court appearances with a proven offence in						
5 years prior to finalisation (relative to 0)						
1		1.926 ***		1.659 ***		
		(0.154)		(0.164)		
2+		3.659 ***		3.077 ***		
		(0.270)		(0.270)		
One or more prison sentences in the 5 years						
prior to finalisation		1.902 ***		2.315 ***		
		(0.167)		(0.211)		
The number of concurrent offences at index (relative to 0)						
1		1.198 *		1.229 *		
		(0.087)		(0.105)		
2+		1.372 ***		1.532 ***		
		(0.094)		(0.120)		
Principal offence - Assault		0.674 ***		0.737 ***		
		(0.040)		(0.051)		
Constant	0.427 ***	0.092 ***	0.233 ***	0.053 ***		
	(0.015)	(0.010)	(0.010)	(0.007)		
N	7,377	7,377	7,321	7,321		
Akaike information criteria	8812.7	7624.3	6933.9	6094.8		

Note: Coefficients reported as odds ratios (OR). Standard errors in parentheses * ρ < .05, ** ρ < .01, *** ρ < .001

Table C3. Logistic regressions, offenders receiving short prison sentences and custodial alternatives

	Any re-offe	ending within	Serious violent,	property and drug	
	12 free	e months	re-offending within 12 free months		
Outcome Specification	Unadjusted	Adjusted	Unadjusted	Adjusted	
Post-reforms	0.937	1.003	0.971	1.068	
	(0.058)	(0.069)	(0.066)	(0.081)	
Male	(0.030)	1.066	(0.000)	0.988	
viale		(0.100)		(0.102)	
Ann antonomica (valetiva to AF and alder)		(0.100)		(0.102)	
Age categories (relative to 45 and older)		1 710 +++		1 004 +++	
18-24		1.710 ***		1.984 ***	
		(0.194)		(0.255)	
25-34		1.658 ***		1.921 ***	
		(0.162)		(0.217)	
35-44		1.548 ***		1.650 ***	
		(0.154)		(0.190)	
Aboriginal		1.485 ***		1.474 ***	
		(0.130)		(0.136)	
Accessibility and Remoteness Index of					
Australia (relative to Major cities)					
Inner regional		0.835 *		0.748 **	
ilinei regional		(0.069)		(0.069)	
Outer regional/Demoto(a)					
Outer regional/Remote(s)		0.877		0.901	
		(0.108)		(0.121)	
Unknown		0.871		0.925	
		(0.161)		(0.192)	
Bail refused at first appearance (relative					
to On bail/Bail dispensed with/Other)		1.396 ***		1.489 ***	
		(0.123)		(0.137)	
Plea (relative to Guilty)					
No plea entered / other		1.147		1.288	
		(0.158)		(0.188)	
Not guilty		0.881		0.875	
Not gailty		(0.098)		(0.106)	
Court appearances with a proven offence in		(0.090)		(0.100)	
5 years prior to finalisation (relative to 0)					
1		1.858 ***		1.998 ***	
		(0.247)		(0.339)	
2+		4.086 ***		3.923 ***	
		(0.466)		(0.574)	
One or more prison sentences in the 5					
years prior to finalisation		2.416 ***		2.683 ***	
		(0.190)		(0.224)	
The number of concurrent offences at		, ,		, ,	
index (relative to 0)					
1		1.263 *		1.267	
•					
2.		(0.135)		(0.155)	
2+		1.721 ***		1.738 ***	
		(0.153)		(0.177)	
Principal offence (relative to Other)					
Violent principal offence		0.981		1.223 *	
		(0.084)		(0.115)	
Serious property principal offence		1.458 ***		1.964 ***	
		(0.134)		(0.192)	
Any DV-related offence		1.178		1.321 **	
		(0.101)		(0.123)	
		•			
Constant	0.754 ***	0.069 ***	0.410 ***	0.026 ***	
	(0.030)	(0.011)	(0.018)	(0.005)	
N	4,446	4,446	4,327	4,327	

Note: Coefficients reported as odds ratios (OR). Standard errors in parentheses * p < .05, ** p < .01, *** p < .001

Table C4 Cox regressions all offenders

Table C4. Cox regressions, all offend	lers					
	Free time t	o first re-offence	Free time to	first serious violent,		
	(exclud	ing breaches)	property ar	property and drug re-offence		
Outcome Specification	Unadjusted	Adjusted	Unadjusted	Adjusted		
Post-reforms	0.935 ***	0.981	0.943 *	1.004		
	(0.017)	(0.018)	(0.022)	(0.024)		
Male		(1.054) *		1.035		
		(0.023)		(0.030)		
Age categories (relative to 45 and older)						
18-24		1.570 ***		1.618 ***		
		(0.045)		(0.063)		
25-34		1.369 ***		1.457 ***		
		(0.037)		(0.054)		
35-44		1.382 ***		1.474 ***		
		(0.039)		(0.056)		
Aboriginal		1.199 ***		1.325 ***		
		(0.030)		(0.041)		
SEIFA Quartile (relative to Most advantaged)						
Most disadvantaged		1.178 ***		1.058		
		(0.036)		(0.043)		
Disadvantaged		1.097 **		1.030		
		(0.034)		(0.043)		
Advantaged		1.135 ***		1.108 *		
		(0.036)		(0.046)		
Unknown		0.629 ***		0.660 ***		
		(0.042)		(0.059)		
Bail refused at first appearance (relative to						
On bail/Bail dispensed with/Other)						
'		1.191 ***		1.224 ***		
		(0.042)		(0.051)		
Plea (relative to Guilty)		(4.4)		(0.00.)		
No plea entered / other		1.720 ***		1.676 ***		
		(0.039)		(0.050)		
Not guilty		1.050		1.061		
Troc gainty		(0.037)		(0.048)		
Court appearances with a proven offence in		(0.037)		(0.010)		
5 years prior to finalisation (relative to 0)						
1		2.107 ***		2.033 ***		
'		(0.060)		(0.085)		
2+		3.517 ***		3.763 ***		
2.		(0.089)		(0.135)		
One or more prison sentences in the		(0.003)		(0.155)		
5 years prior to finalisation		1.681 ***		2.063 ***		
3 years prior to illialisation		(0.039)		(0.060)		
The number of concurrent offences at index		(0.039)		(0.000)		
(relative to 0)		1 117 +++		1 1 6 5 + + +		
1		1.117 ***		1.165 ***		
2+		(0.026) 1.222 ***		(0.036) 1.280 ***		
2+						
Dringing offence (valetime to Other)		(0.027)		(0.037)		
Principal offence (relative to Other)		0.016 +++		1.000		
Violent principal offence		0.816 ***		1.006		
Contact property and a 1 CC		(0.022)		(0.035)		
Serious property principal offence		1.229 ***		1.751 ***		
A 51/4 4 55		(0.031)		(0.054)		
Any DV-related offence		1.048		1.252 ***		
	06 712	(0.027)	06 =0 :	(0.042)		
N	36,718	36,716	36,721	36,719		
Akaike information criteria	264532.1	256228.8	151304.9	144890.7		

Coefficients reported as hazard ratios (HR). Standard errors in parentheses. * p < .05, ** p < .01, *** p < .001

Table C5. Cox regressions, DV offenders

		first re-offence	Free time to first serious violent,		
		g breaches)	property and drug re-offence		
Outcome Specification	Unadjusted	Adjusted	Unadjusted	Adjusted	
Post-reforms	0.900 **	0.950	0.926	0.983	
	(0.036)	(0.038)	(0.045)	(0.048)	
Male		1.145 *		1.090	
		(0.062)		(0.074)	
Age categories (relative to 45 and older)					
18-24		1.769 ***		1.795 ***	
		(0.115)		(0.145)	
25-34		1.576 ***		1.571 ***	
		(0.095)		(0.119)	
35-44		1.350 ***		1.294 **	
		(0.086)		(0.103)	
Aboriginal		1.177 ***		1.211 **	
S		(0.057)		(0.071)	
Accessibility and Remoteness Index		` '		, ,	
of Australia (relative to Major cities)					
Inner regional		1.074		1.022	
milet regional		(0.050)		(0.059)	
Outer regional/Remote(s)		1.147 *		1.082	
Outer regional/Remote(s)		(0.070)		(0.082)	
Linknown		0.741 *		0.714	
Unknown					
Dellar franchischer		(0.106)		(0.130)	
Bail refused at first appearance (relative to					
on bail/bail dispensed with/other)		1.070		1.150	
		1.078		1.153	
		(0.066)		(0.084)	
Plea (relative to Guilty)					
No plea entered / other		1.538 ***		1.591 ***	
		(0.115)		(0.142)	
Not guilty		0.984		0.968	
		(0.061)		(0.075)	
Court appearances with a proven offence in					
5 years prior to finalisation (relative to 0)					
1		1.876 ***		1.695 ***	
		(0.116)		(0.135)	
2+		3.030 ***		2.860 ***	
		(0.169)		(0.202)	
One or more prison sentences in the					
5 years prior to finalisation		1.609 ***		1.848 ***	
		(0.083)		(0.115)	
The number of concurrent offences at		/		,	
index (relative to 0)					
1		1.121 *		1.157 *	
		(0.058)		(0.075)	
2+		1.198 ***		1.309 ***	
۷,		(0.057)		(0.077)	
Oringinal offence Assault		0.721 ***		0.739 ***	
Principal offence - Assault					
NI.	7767	(0.030)	7767	(0.039)	
N	7,767	7,767	7,767	7,767	
Akaike information criteria	46203.3	44735.5	30360.5	29314.8	

Coefficients reported as hazard ratios (HR). Standard errors in parentheses.

^{*} p < .05, ** p < .01, *** p < .001

Table C6. Cox regressions, offenders sentenced to short prison sentences and custodial alternatives

		short prison sente to first re-offence		Free time to first serious violent,		
		ding breaches)		property and drug re-offence		
Group	Unadjusted	Adjusted	Unadjusted	Adjusted		
Post-reforms	0.971	0.971	1.013	1.023		
	(0.039)	(0.040)	(0.050)	(0.051)		
Male		1.064		1.001		
		(0.062)		(0.070)		
Age categories (relative to 45 and older)						
18-24		1.555 ***		1.697 ***		
		(0.110)		(0.149)		
25-34		1.460 ***		1.579 ***		
		(0.090)		(0.123)		
35-44		1.393 ***		1.448 ***		
33 11		(0.088)		(0.116)		
ا مینجنی ا						
Aboriginal		1.239 ***		1.270 ***		
		(0.060)		(0.073)		
Accessibility and Remoteness Index						
of Australia (relative to Major cities)						
Inner regional		0.881 *		0.813 **		
		(0.043)		(0.049)		
Outer regional/Remote(s)		0.893		0.941		
		(0.064)		(0.079)		
Unknown		0.888		0.852		
		(0.099)		(0.117)		
Bail refused at first appearance (relative to		(0.000)		(31111)		
On bail/Bail dispensed with/Other)						
On ball/ball dispensed with/Other)		1 267 +++		1 276 +++		
		1.267 ***		1.276 ***		
		(0.060)		(0.072)		
Plea (relative to Guilty)						
No plea entered / other		1.106		1.160		
		(0.086)		(0.108)		
Not guilty		0.956		0.925		
		(0.063)		(0.074)		
Court appearances with a proven offence in						
5 years prior to finalisation (relative to 0)						
1		1.846 ***		1.800 ***		
		(0.184)		(0.238)		
2+		3.240 ***		3.208 ***		
2.		(0.279)		(0.365)		
One or more prison conteneds in the		(0.273)		(0.505)		
One or more prison sentences in the		1 OOF +++		2.054 ***		
5 years prior to finalisation		1.805 ***				
		(0.082)		(0.114)		
The number of concurrent offences at index						
(relative to 0)						
1		1.165 *		1.153		
		(0.079)		(0.097)		
2+		1.368 ***		1.393 ***		
		(0.077)		(0.096)		
Principal offence (relative to Other)						
Violent principal offence		0.953		1.128		
		(0.050)		(0.073)		
Serious property principal offence		1.250 ***		1.659 ***		
serious property principal offence		(0.064)		(0.101)		
Any DV related offence		0.997		1.087		
Any DV-related offence						
	F 240	(0.051)	F 222	(0.068)		
N	5,319	5,319	5,323	5,323		
Akaike information criteria	41355.1	40194.0	28430.3	27441.0		

Coefficients reported as hazard ratios (HR). Standard errors in parentheses. * p < .05, ** p < .01, *** p < .001

Table C7. Logistic regressions, new custodial episode within 12 months calendar time

		an alous		a sa al a sa	Short priso	on sentences	
Group	All offe Unadjusted	enders Adjusted	DV off Unadjusted	enders Adjusted	and custodi Unadjusted	al alternatives	
Group	Unadjusted	Adjusted	Unadjusted	Aujusteu	Unadjusted	Adjusted	
Specification Post-reforms	0.946	1.010	0.967	1.038	1.069	1.067	
POST-TEIOTHIS							
Mala	(0.028)	(0.034) 1.466 ***	(0.058)	(0.068) 1.566 ***	(0.064)	(0.068) 1.087	
Male							
Ago satogorios (rolativo to 45 and older)		(0.066)		(0.154)		(0.102)	
Age categories (relative to 45 and older) 18-24		1.519 ***		1.504 ***		1.872 ***	
10-24							
25.24		(0.083)		(0.161)		(0.204)	
25-34		1.446 ***		1.378 ***		1.556 ***	
25.44		(0.073)		(0.134)		(0.148)	
35-44		1.509 ***		1.342 **		1.428 ***	
All anti-tiral		(0.079)		(0.135)		(0.140)	
Aboriginal		1.605 ***		1.331 ***		1.371 ***	
Accessibility and Remoteness Index of		(0.074)		(0.108)		(0.107)	
•							
Australia (relative to Major cities)		0.005		0.050		0.044.1	
Inner regional		0.895 **		0.960		0.844 *	
		(0.037)		(0.075)		(0.066)	
Outer regional/Remote(s)		0.883 *		0.831		0.723 **	
		(0.055)		(0.090)		(0.085)	
Unknown		0.632 ***		0.660		0.706 *	
		(0.067)		(0.147)		(0.119)	
Bail refused at first appearance (relative to							
On bail/Bail dispensed with/Other)							
		1.527 ***		1.374 **		1.292 **	
		(0.089)		(0.133)		(0.098)	
		,		, ,		, ,	
Plea (relative to Guilty)							
No plea entered / other		1.861 ***		1.620 ***		0.907	
		(0.081)		(0.211)		(0.118)	
Not guilty		1.205 **		1.186		1.041	
		(0.075)		(0.117)		(0.106)	
Court appearances with a proven offence in	1	(0.0.0)		(5,,,,,		(31133)	
5 years prior to finalisation (relative to 0)							
1		2.134 ***		1.782 ***		1.396 *	
·		(0.125)		(0.186)		(0.195)	
2+		4.717 ***		3.351 ***		2.407 ***	
_		(0.236)		(0.309)		(0.284)	
One or more prison sentences in the 5 year	S	(=,		(=.===)		()	
prior to finalisation		2.759 ***		2.461 ***		2.176 ***	
prior to intansation		(0.113)		(0.209)		(0.158)	
The number of concurrent offences at index	K	(0.115)		(0.205)		(0.150)	
(relative to 0)							
1		1.205 ***		1.090		1.071	
		(0.054)		(0.097)		(0.113)	
2+		1.606 ***		1.626 ***		1.496 ***	
-		(0.064)		(0.126)		(0.129)	
Principal offence (relative to Other)		(0.004)		(0.120)		(0.147)	
Violent principal offence		0.827 ***				0.793 **	
violent principal offence		(0.040)				(0.065)	
Sorious proporty principal offence		1.5 ***				1.214 *	
Serious property principal offence							
Any DV related offence		(0.069) 1.604 ***				(0.100) 1.529 ***	
Any DV-related offence							
Dyinainal affanas Assault		(0.074)		0.502.444		(0.122)	
Principal offence - Assault				0.583 ***			
	0.466 111	0.045 111	0.245	(0.041)	0.404	0.000 111	
Constant	0.166 ***	0.016 ***	0.215 ***	0.040 ***	0.404 ***	0.062 ***	
	(0.003)	(0.001)	(0.009)	(0.006)	(0.016)	(0.010)	
N	36,941	36,939	7,820	7,820	5,443	5,443	
Akaike information criteria	29815.6	24048.6	7248.6	6144.4	6597.7	5963.8	

Coefficients reported as odds ratios (OR). Standard errors in parentheses. * p < .05, ** p < .01, *** p < .001