

Online Supplement A: Bivariate Predictors of Segregation in Development Sample

Preliminary Notes.

The sample size is applicable for the overall analysis (not the subgroups). Odds ratios are presented for Indigenous and women offenders only if the relevant interaction effect was significant. For continuous variables, a checkmark denotes that the Hosmer-Lemeshow (HL) test was non-significant (supporting the logistic distribution assumption), whereas an X denotes that the assumption was violated.

Common abbreviations included in this appendix (primarily used to denote the source of a predictor variable):

Seg = segregation

JS = jeopardize security

IMD = inmate in danger

UAL = unlawfully at large

EMP = DFIA/R employment domain

SUB = DFIA/R substance abuse domain

FAM = DFIA/R family/marital domain

ASS = DFIA/R associates domain

COM = DFIA/R community functioning domain

PER = DFIA/R personal/emotional domain

ATT = DFIA/R attitudes domain

YCR = Youth criminal record section of SFA

ACR = Adult criminal record section of SFA

OSR = Offence severity record of SFA

SOH = Sex offence history checklist of SFA

IA = Institutional adjustment subscale of CRS

SR = Security risk subscale of CRS

SIO = Security Intelligence Office

For all DFIA/DFIA-R items, prefixes that include “_2” denote that the item from the original DFIA was matched with a nearly identical item of the DFIA-R. Prefixes that include “_R” denote items unique to the DFIA-R. Items with neither “_2” nor “_R” in the prefix were unique to the original DFIA.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
Current Abduct/kidnap	10,961	Any	1.786	1.480	2.156	<.001	-	-	-	3.650	<.001
		JS	1.530	1.250	1.874	<.001	-	-	-	3.072	<.001
		IMD	1.771	1.381	2.272	<.001	-	-	-	-	-
Current Arson	10,961	Any	2.335	1.638	3.328	<.001	-	-	-	-	-
		JS	2.558	1.784	3.668	<.001	-	-	-	-	-
		IMD	2.048	1.298	3.231	.002	-	-	-	-	-
Current Attempted murder	10,961	Any	1.780	1.193	2.656	.005	-	-	-	-	-
		JS	1.854	1.224	2.807	.004	-	-	-	-	-
		IMD	1.072	.572	2.009	.827	-	-	-	6.330	.005
Current Break and enter	10,961	Any	1.856	1.667	2.065	<.001	-	1.431	.002	-	-
		JS	1.877	1.667	2.101	<.001	-	1.516	<.001	-	-
		IMD	1.591	1.370	1.848	<.001	-	-	-	-	-
Current Assault	10,961	Any	2.361	2.136	2.610	<.001	-	1.801	<.001	4.102	<.001
		JS	2.429	2.186	2.698	<.001	-	1.716	<.001	4.095	<.001
		IMD	1.781	1.548	2.048	<.001	-	-	-	-	-
Current Fraud	10,961	Any	1.073	.929	1.239	.336	-	-	-	-	-
		JS	1.049	.899	1.225	.544	-	-	-	-	-
		IMD	1.077	.877	1.322	.480	-	-	-	-	-

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Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
Current Homicide and related	10,961	Any	2.195	1.879	2.565	<.001	-	-	-	-	-
		JS	2.258	1.922	2.652	<.001	-	-	-	1.641	.013
		IMD	1.962	1.597	2.410	<.001	-	1.345	.107	-	-
Current Impaired driving	10,961	Any	.583	.471	.721	<.001	-	-	-	-	-
		JS	.540	.425	.686	<.001	-	-	-	-	-
		IMD	.594	.430	.820	.002	-	-	-	-	-
Current Morals - sexual	10,961	Any	.566	.412	.777	<.001	-	-	-	1.540	.152
		JS	.379	.253	.569	<.001	-	-	-	1.549	.157
		IMD	.730	.471	1.133	.160	-	-	-	-	-
Current Administration of justice	10,961	Any	1.328	1.207	1.461	<.001	-	1.057	.561	-	-
		JS	1.316	1.189	1.458	<.001	-	.988	.909	-	-
		IMD	1.233	1.076	1.414	.003	-	-	-	.685	.192
Current Other	10,961	Any	1.629	1.492	1.778	<.001	-	-	-	-	-
		JS	1.669	1.519	1.834	<.001	-	1.380	<.001	-	-
		IMD	1.416	1.249	1.606	<.001	-	-	-	-	-
Current Other property offences	10,961	Any	1.549	1.394	1.720	<.001	-	-	-	-	-
		JS	1.499	1.340	1.676	<.001	-	-	-	-	-
		IMD	1.552	1.342	1.795	<.001	-	-	-	-	-
Current Possession of drugs	10,961	Any	1.413	1.226	1.627	<.001	-	-	-	-	-
		JS	1.531	1.321	1.774	<.001	-	-	-	-	-
		IMD	1.059	.856	1.310	.597	-	-	-	-	-

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Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
Current Public order offences	10,961	Any	2.403	2.093	2.758	<.001	-	1.772	<.001	-	-
		JS	2.507	2.174	2.891	<.001	-	1.854	<.001	-	-
		IMD	1.898	1.575	2.286	<.001	-	-	-	-	-
Current Robbery	10,961	Any	2.358	2.128	2.612	<.001	-	-	-	-	-
		JS	2.277	2.045	2.536	<.001	-	-	-	-	-
		IMD	2.048	1.780	2.355	<.001	-	1.538	.002	1.004	.989
Current Sexual offences	10,961	Any	.570	.485	.671	<.001	-	-	-	1.549	.316
		JS	.411	.337	.501	<.001	-	-	-	1.394	.472
		IMD	.946	.769	1.164	.598	-	-	-	3.992	.013
Current Theft	10,961	Any	1.581	1.413	1.768	<.001	-	-	-	-	-
		JS	1.472	1.306	1.659	<.001	-	-	-	-	-
		IMD	1.618	1.388	1.886	<.001	-	-	-	-	-
Current Traffic/importing drugs	10,961	Any	.434	.388	.486	<.001	-	-	-	-	-
		JS	.497	.441	.560	<.001	-	-	-	.360	<.001
		IMD	.307	.253	.372	<.001	-	-	-	-	-
Current Weapons/explosives	10,961	Any	1.906	1.703	2.132	<.001	-	-	-	3.235	<.001
		JS	1.980	1.760	2.227	<.001	-	-	-	3.285	<.001
		IMD	1.501	1.281	1.760	<.001	-	-	-	-	-
Height	11,067	Any	1.030	1.025	1.036	<.001	X	-	-	-	-
		JS	1.029	1.023	1.035	<.001	X	-	-	-	-
		IMD	1.033	1.025	1.041	<.001	X	1.047	<.001	-	-

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Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
Weight	11,062	Any	1.007	1.004	1.009	<.001	X	-	-	-	-
		JS	1.006	1.003	1.008	<.001	X	-	-	-	-
		IMD	1.007	1.004	1.011	<.001	X	-	-	-	-
BMI	11,061	Any	1.001	.993	1.009	.833	✓	-	-	-	-
		JS	1.000	.991	1.009	.930	✓	-	-	-	-
		IMD	1.001	.989	1.013	.917	X	-	-	-	-
EMP01: Less than grade 8	8,048	Any	1.505	1.388	1.692	<.001	-	1.040	.749	2.592	<.001
		JS	1.581	1.397	1.790	<.001	-	1.089	.509	2.659	<.001
		IMD	1.420	1.204	1.676	<.001	-	-	-	2.518	.001
EMP04: Finds learning difficult	7,855	Any	1.591	1.423	1.778	<.001	-	1.262	.041	2.272	<.001
		JS	1.641	1.458	1.847	<.001	-	1.185	.161	2.423	<.001
		IMD	1.576	1.348	1.841	<.001	-	-	-	-	-
EMP07: Memory problems	8,158	Any	1.159	1.027	1.309	.017	-	-	-	-	-
		JS	1.170	1.028	1.332	.017	-	-	-	-	-
		IMD	1.149	.967	1.366	.114	-	-	-	-	-
EMP11: Numeracy problems	8,170	Any	1.386	1.243	1.546	<.001	-	-	-	1.848	<.001
		JS	1.390	1.237	1.562	<.001	-	1.085	.483	1.849	<.001
		IMD	1.373	1.176	1.603	<.001	-	-	-	-	-
EMP12: Difficulty comprehending instructions	8,198	Any	1.371	1.186	1.584	<.001	-	-	-	2.242	<.001
		JS	1.312	1.123	1.532	<.001	-	-	-	2.414	<.001
		IMD	1.659	1.368	2.012	<.001	-	-	-	-	-

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Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
EMP13: Lacks skill area/trade/profession	8,257	Any	2.323	2.085	2.587	<.001	-	-	-	-	-
		JS	2.511	2.230	2.826	<.001	-	-	-	-	-
		IMD	2.018	1.725	2.362	<.001	-	-	-	-	-
EMP17: Unemployed 90% of the time or more	8,119	Any	2.171	1.958	2.407	<.001	-	-	-	-	-
		JS	2.262	2.026	2.526	<.001	-	-	-	-	-
		IMD	1.791	1.546	2.074	<.001	-	-	-	-	-
EMP18: Unemployed 90% of the time or more	8,020	Any	2.407	2.154	2.690	<.001	-	-	-	4.062	<.001
		JS	2.487	2.203	2.809	<.001	-	-	-	4.139	<.001
		IMD	2.143	1.820	2.524	<.001	-	-	-	-	-
EMP20: Often late for work	8,010	Any	1.341	1.130	1.591	<.001	-	-	-	-	-
		JS	1.277	1.063	1.534	.009	-	-	-	-	-
		IMD	1.360	1.072	1.725	.011	-	-	-	-	-
EMP21: Poor attendance record	8,005	Any	1.316	1.120	1.548	<.001	-	-	-	-	-
		JS	1.265	1.063	1.504	.008	-	-	-	-	-
		IMD	1.280	1.018	1.610	.035	-	-	-	-	-
EMP23: Difficulty meeting workload requirements	7,912	Any	1.276	1.119	1.455	.003	-	-	-	-	-
		JS	1.257	1.092	1.447	.002	-	-	-	-	-
		IMD	1.198	.992	1.446	.061	-	-	-	2.603	.023
EMP24: Lacks initiative	7,829	Any	1.525	1.366	1.702	<.001	-	-	-	-	-
		JS	1.421	1.263	1.599	<.001	-	1.103	.402	-	-
		IMD	1.529	1.309	1.787	<.001	-	-	-	-	-

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Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
EMP25: Has quit a job without another	8,107	Any	1.117	1.009	1.236	.033	-	-	-	-	-
		JS	1.086	.974	1.211	.138	-	-	-	-	-
		IMD	1.084	.936	1.254	.281	-	-	-	-	-
EMP26: Has been laid off from work	8,084	Any	.768	.693	.852	<.001	-	-	-	1.102	.523
		JS	.772	.691	.862	<.001	-	-	-	1.155	.355
		IMD	.722	.621	.840	<.001	-	-	-	-	-
EMP27: Has been fired from a job	8,016	Any	.949	.844	1.068	.385	-	-	-	-	-
		JS	.894	.787	1.016	.086	-	-	-	-	-
		IMD	.963	.812	1.142	.666	-	-	-	-	-
EMP28: Salary has been insufficient	8,168	Any	1.048	.945	1.162	.375	-	-	-	.788	.099
		JS	1.020	.913	1.140	.721	-	-	-	-	-
		IMD	1.159	1.000	1.344	.049	-	-	-	-	-
EMP29: Lacks employment benefits	8,168	Any	1.071	.968	1.184	.185	-	-	-	-	-
		JS	1.044	.937	1.163	.438	-	-	-	-	-
		IMD	1.135	.981	1.312	.089	-	-	-	-	-
EMP30: Lacks job security	8,178	Any	1.135	1.026	1.256	.014	-	-	-	-	-
		JS	1.130	1.014	1.260	.027	-	-	-	-	-
		IMD	1.155	.999	1.336	.051	-	-	-	-	-
EMP33: Prior vocational assessments	8,183	Any	1.270	1.111	1.450	<.001	-	-	-	-	-
		JS	1.284	1.114	1.479	<.001	-	-	-	-	-
		IMD	1.175	.971	1.421	.097	-	-	-	.217	.035

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Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
EMP35: Completed occupational development program	8,075	Any	.983	.852	1.133	.808	-	-	-	-	-
		JS	.968	.830	1.128	.674	-	-	-	-	-
		IMD	.981	.799	1.204	.854	-	-	-	-	-
EMP02_2: Less than grade 10	10,010	Any	1.627	1.486	1.781	<.001	-	1.202	.051	-	-
		JS	1.715	1.555	1.891	<.001	-	1.263	.020	-	-
		IMD	1.459	1.282	1.662	<.001	-	-	-	-	-
EMP03_2: Has no high school diploma	9,950	Any	1.854	1.656	2.077	<.001	-	-	-	-	-
		JS	1.937	1.710	2.194	<.001	-	-	-	-	-
		IMD	1.634	1.386	1.926	<.001	-	-	-	-	-
EMP05: Has learning disabilities	7,007	Any	1.706	1.480	1.967	<.001	-	-	-	2.524	<.001
		JS	1.700	1.462	1.976	<.001	-	-	-	2.651	<.001
		IMD	1.582	1.298	1.928	<.001	-	-	-	-	-
EMP06: Has physical problems which interfere with learning	8,215	Any	.878	.717	1.074	.205	-	-	-	1.398	.143
		JS	.859	.690	1.070	.175	-	-	-	-	-
		IMD	.925	.692	1.236	.596	-	-	-	-	-
EMP08: Has concentration problems	8,155	Any	1.837	1.650	2.044	<.001	-	-	-	-	-
		JS	1.830	1.632	2.050	<.001	-	-	-	2.390	<.001
		IMD	1.694	1.457	1.969	<.001	-	-	-	-	-
EMP09: Has problems with reading	8,211	Any	1.125	.990	1.278	.072	-	-	-	1.573	.005
		JS	1.105	.963	1.268	.155	-	-	-	-	-
		IMD	1.230	1.029	1.470	.023	-	-	-	2.233	.004

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Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
EMP10: Has problems with writing	8,199	Any	1.206	1.068	1.362	.002	-	-	-	1.651	.002
		JS	1.202	1.056	1.369	.005	-	-	-	-	-
		IMD	1.300	1.097	1.540	.002	-	-	-	2.201	.006
EMP14_2: Dissatisfied with job skills	9,966	Any	1.669	1.524	1.829	<.001	-	-	-	-	-
		JS	1.754	1.589	1.935	<.001	-	-	-	-	-
		IMD	1.458	1.280	1.660	<.001	-	-	-	-	-
EMP15: Has physical problems that interfere with work	8,219	Any	.740	.644	.850	<.001	-	-	-	-	-
		JS	.702	.603	.818	<.001	-	-	-	1.006	.973
		IMD	.779	.636	.955	.016	-	-	-	-	-
EMP22_2: Has no employment history	10,288	Any	2.658	2.350	3.005	<.001	-	-	-	-	-
		JS	2.737	2.410	3.107	<.001	-	-	-	-	-
		IMD	2.337	1.991	2.742	<.001	-	-	-	-	-
EMP16_2: Unemployed at time of arrest	10,208	Any	1.785	1.617	1.970	<.001	-	-	-	2.779	<.001
		JS	1.879	1.687	2.093	<.001	-	-	-	2.760	<.001
		IMD	1.579	1.369	1.821	<.001	-	-	-	-	-
EMP19_2: Job history unstable	10,234	Any	2.471	2.226	2.743	<.001	-	-	-	3.785	<.001
		JS	2.597	2.315	2.914	<.001	-	-	-	3.983	<.001
		IMD	2.190	1.878	2.553	<.001	-	-	-	-	-
EMP31_2: Cooperative work skills are limited	9,975	Any	1.445	1.259	1.659	<.001	-	-	-	-	-
		JS	1.388	1.198	1.609	<.001	-	-	-	-	-
		IMD	1.596	1.327	1.920	<.001	-	-	-	-	-

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Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
EMP34_2: Referred/participated in employment programs	10,179	Any	.989	.886	1.103	.837	-	-	-	-	-
		JS	.982	.873	1.106	.769	-	-	-	-	-
		IMD	1.005	.859	1.176	.946	-	-	-	-	-
EMP06_R: Marketable job skills obtained through experience are limited	2,003	Any	2.713	2.213	3.327	<.001	-	-	-	.641	.420
		JS	2.912	2.334	3.633	<.001	-	-	-	.571	.317
		IMD	2.189	1.646	2.910	<.001	-	4.618	<.001	-	-
EMP07_R: Marketable job skills obtained through formal training are limited	1,984	Any	2.543	1.934	3.342	<.001	-	-	-	-	-
		JS	3.064	2.231	4.207	<.001	-	1.599	.120	-	-
		IMD	1.782	1.229	2.585	.002	-	-	-	-	-
EMP10_R: Belief in oneself to improve employability is low	1,947	Any	1.022	.798	1.308	.865	-	-	-	-	-
		JS	1.166	.899	1.511	.248	-	-	-	-	-
		IMD	.985	.696	1.395	.934	-	-	-	-	-
EMP11_R: Work ethic can be described as poor	1,791	Any	2.240	1.792	2.800	<.001	-	-	-	-	-
		JS	2.209	1.744	2.798	<.001	-	-	-	-	-
		IMD	2.097	1.553	2.833	<.001	-	-	-	-	-
FAM02: Mother absent during childhood	8,291	Any	1.628	1.444	1.836	<.001	-	-	-	1.157	.385
		JS	1.535	1.351	1.745	<.001	-	-	-	-	-
		IMD	1.676	1.421	1.975	<.001	-	-	-	.835	.596
FAM04: Father absent during childhood	8,283	Any	1.645	1.487	1.820	<.001	-	-	-	1.295	.059
		JS	1.683	1.511	1.875	<.001	-	-	-	1.240	.129
		IMD	1.488	1.288	1.718	<.001	-	-	-	-	-

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Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
FAM06: Parents' relationship dysfunctional during childhood	8,070	Any	1.644	1.484	1.821	<.001	-	-	-	-	-
		JS	1.653	1.481	1.845	<.001	-	-	-	-	-
		IMD	1.663	1.434	1.929	<.001	-	-	-	-	-
FAM08: Sibling relations negative during childhood	8,192	Any	1.410	1.204	1.651	<.001	-	-	-	-	-
		JS	1.374	1.161	1.625	<.001	-	-	-	-	-
		IMD	1.374	1.104	1.710	.004	-	-	-	-	-
FAM09: Other relative relations negative in childhood	8,132	Any	1.251	1.080	1.448	.003	-	.851	.202	-	-
		JS	1.222	1.044	1.429	.012	-	.820	.144	-	-
		IMD	1.304	1.064	1.599	.011	-	.869	.413	-	-
FAM11: Currently single	8,266	Any	1.262	1.138	1.400	<.001	-	-	-	-	-
		JS	1.183	1.059	1.321	.003	-	-	-	-	-
		IMD	1.357	1.166	1.579	<.001	-	-	-	-	-
FAM12: Has been married or common-law in the past	8,293	Any	.674	.599	.758	<.001	-	.507	<.001	-	-
		JS	.658	.581	.745	<.001	-	.460	<.001	-	-
		IMD	.756	.640	.894	.001	-	-	-	-	-
FAM13: Dissatisfied with current relationship	8,216	Any	.953	.797	1.138	.592	-	-	-	1.819	<.001
		JS	.978	.809	1.182	.816	-	-	-	1.789	.002
		IMD	.850	.651	1.111	.234	-	-	-	2.245	.008
FAM21: Unable to control child's behaviour	7,893	Any	.931	.728	1.189	.566	-	-	-	1.833	.013
		JS	.838	.638	1.102	.206	-	-	-	1.811	.018
		IMD	1.061	.758	1.485	.729	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
FAM22: Perceives self as unable to control child's behaviour	8,077	Any	.985	.709	1.369	.929	-	-	-	-	-
		JS	.916	.638	1.315	.635	-	-	-	1.687	.060
		IMD	1.118	.714	1.752	.626	-	-	-	-	-
FAM26: Family unable to get along as unit	8,240	Any	1.163	1.034	1.308	.012	-	-	-	1.921	<.001
		JS	1.147	1.011	1.300	.033	-	-	-	2.009	<.001
		IMD	1.205	1.021	1.422	.028	-	-	-	-	-
FAM29: Prior family assessments	8,232	Any	1.386	1.192	1.612	<.001	-	-	-	-	-
		JS	1.379	1.175	1.618	<.001	-	-	-	-	-
		IMD	1.331	1.077	1.643	.008	-	-	-	-	-
FAM31: Has completed a family intervention program	8,222	Any	1.038	.814	1.323	.766	-	-	-	-	-
		JS	.919	.702	1.203	.539	-	-	-	-	-
		IMD	1.267	.916	1.752	.152	-	-	-	-	-
FAM01_2: Limited attachment to family unit during childhood	10,354	Any	1.685	1.531	1.856	<.001	-	-	-	-	-
		JS	1.519	1.370	1.684	<.001	-	-	-	-	-
		IMD	1.862	1.631	2.126	<.001	-	-	-	-	-
FAM03_2: Relations with parental figure negative during childhood	10,322	Any	1.711	1.565	1.872	<.001	-	-	-	-	-
		JS	1.629	1.480	1.793	<.001	-	-	-	-	-
		IMD	1.762	1.549	2.004	<.001	-	-	-	-	-
FAM07_2: Witnessed family violence during childhood	9,962	Any	1.452	1.319	1.598	<.001	-	-	-	-	-
		JS	1.421	1.283	1.575	<.001	-	-	-	-	-
		IMD	1.452	1.269	1.661	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
FAM10_2: Family members criminally active during childhood	10,004	Any	1.553	1.415	1.703	<.001	-	-	-	1.238	.112
		JS	1.604	1.453	1.771	<.001	-	-	-	-	-
		IMD	1.389	1.218	1.584	<.001	-	-	-	-	-
FAM14_2: Intimate relationships have been problematic	10,254	Any	.900	.823	.984	.021	-	.703	<.001	-	-
		JS	.858	.780	.945	.002	-	.635	<.001	-	-
		IMD	.956	.841	1.087	.494	-	.713	.006	-	-
FAM06_R: Inability to maintain enduring intimate relationship	2,011	Any	1.400	1.136	1.725	.002	-	-	-	-	-
		JS	1.363	1.091	1.704	.006	-	-	-	-	-
		IMD	1.474	1.106	1.966	.008	-	.747	.329	-	-
FAM17_2: Victimized by spousal abuse	10,259	Any	.741	.658	.835	<.001	-	-	-	-	-
		JS	.781	.688	.888	<.001	-	-	-	-	-
		IMD	.646	.538	.776	<.001	-	.441	<.001	-	-
FAM18_2: Perpetrated spousal violence	10,168	Any	1.221	1.110	1.343	<.001	-	.862	.110	1.848	<.001
		JS	1.184	1.069	1.311	.001	-	.840	.079	1.896	<.001
		IMD	1.266	1.107	1.448	<.001	-	.842	.165	-	-
FAM19_2: Has no parenting responsibilities	10,352	Any	1.276	1.167	1.395	<.001	-	-	-	-	-
		JS	1.281	1.165	1.410	<.001	-	-	-	-	-
		IMD	1.266	1.115	1.439	<.001	-	-	-	-	-
FAM20_2: Significant difficulties handling parenting responsibilities	9,996	Any	1.238	1.096	1.398	<.001	-	-	-	1.801	<.001
		JS	1.194	1.047	1.361	.008	-	-	-	1.903	<.001
		IMD	1.226	1.034	1.455	.019	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
FAM23_2: Parental knowledge/skills lacking	10,067	Any	1.211	1.080	1.358	.001	-	-	-	1.809	<.001
		JS	1.172	1.036	1.325	.012	-	-	-	1.874	<.001
		IMD	1.208	1.028	1.419	.022	-	-	-	-	-
FAM27_2: Investigated/arrested for child abuse/neglect	10,253	Any	.373	.283	.492	<.001	-	-	-	.824	.618
		JS	.284	.202	.400	<.001	-	-	-	.774	.533
		IMD	.563	.389	.814	.002	-	-	-	-	-
FAM15_R: Uses excessive force to discipline child	1,876	Any	.182	.056	.587	.004	-	-	-	-	-
		JS	.155	.037	.640	.010	-	-	-	-	-
		IMD	.169	.023	1.227	.079	-	-	-	-	-
FAM30_2: Referred/participated in programs under family domain	10,300	Any	.779	.658	.923	.004	-	-	-	-	-
		JS	.784	.653	.942	.009	-	-	-	-	-
		IMD	.715	.552	.925	.011	-	-	-	-	-
ASS08: Relations are described as predatory	8,222	Any	1.768	1.561	2.003	<.001	-	-	-	2.548	<.001
		JS	1.727	1.513	1.971	<.001	-	-	-	2.562	<.001
		IMD	1.634	1.376	1.942	<.001	-	-	-	3.599	<.001
ASS09: Often victimized in social relations	8,213	Any	1.049	.909	1.212	.511	-	.778	.090	1.718	<.001
		JS	1.100	.944	1.281	.221	-	-	-	1.881	<.001
		IMD	1.212	.994	1.478	.058	-	.847	.402	-	-
ASS11: Difficulty communicating with others	8,262	Any	1.305	1.160	1.468	<.001	-	1.051	.676	1.747	<.001
		JS	1.259	1.110	1.428	<.001	-	-	-	1.752	<.001
		IMD	1.240	1.049	1.466	.012	-	.932	.657	2.119	.005

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
ASS02_2: Associates with substance abusers	10,237	Any	2.381	2.114	2.683	<.001	-	-	-	-	-
		JS	2.603	2.277	2.976	<.001	-	-	-	-	-
		IMD	1.850	1.563	2.191	<.001	-	-	-	-	-
ASS08_R: Prosocial support from intimate partner is limited	1,988	Any	1.485	1.211	1.821	<.001	-	-	-	-	-
		JS	1.483	1.191	1.847	<.001	-	-	-	-	-
		IMD	1.249	.938	1.663	.128	-	-	-	-	-
ASS05_R: Has a criminal partner	2,019	Any	.994	.745	1.326	.966	-	-	-	-	-
		JS	1.054	.777	1.430	.737	-	-	-	-	-
		IMD	.698	.445	1.097	.119	-	-	-	-	-
ASS03_2: Has many criminal acquaintances	10,179	Any	2.789	2.488	3.127	<.001	-	-	-	-	-
		JS	3.213	2.820	3.660	<.001	-	-	-	-	-
		IMD	1.814	1.552	2.122	<.001	-	-	-	1.027	.921
ASS04_2: Has many criminal friends	10,027	Any	2.693	2.452	2.958	<.001	-	-	-	2.073	<.001
		JS	2.955	2.668	3.274	<.001	-	-	-	2.222	<.001
		IMD	1.905	1.669	2.173	<.001	-	-	-	.961	.881
ASS05_2: Affiliated with a gang or organized crime	10,182	Any	2.694	2.400	3.024	<.001	-	-	-	-	-
		JS	2.669	2.367	2.009	<.001	-	-	-	-	-
		IMD	2.388	2.053	2.777	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
ASS06_2: Resides in high crime area	9,761	Any	1.671	1.519	1.838	<.001	-	-	-	-	-
		JS	1.696	1.532	1.877	<.001	-	1.354	.003	-	-
		IMD	1.470	1.283	1.684	<.001	-	-	-	.741	.278
ASS04_R: Has contact with criminal family members	2,003	Any	1.624	1.302	2.027	<.001	-	-	-	-	-
		JS	1.693	1.339	2.139	<.001	-	-	-	-	-
		IMD	1.358	.999	1.847	.051	-	-	-	-	-
ASS08_R: Prosocial support from intimate partner is limited	1,988	Any	1.485	1.211	1.821	<.001	-	-	-	-	-
		JS	1.483	1.191	1.847	<.001	-	-	-	-	-
		IMD	1.249	.938	1.663	.128	-	-	-	-	-
ASS09_R: Prosocial family support is limited	2,013	Any	1.881	1.540	2.298	<.001	-	-	-	-	-
		JS	1.728	1.395	2.140	<.001	-	-	-	-	-
		IMD	2.141	1.622	2.826	<.001	-	-	-	-	-
ASS10_R: Prosocial support from friends is limited	1,967	Any	2.946	2.284	3.801	<.001	-	-	-	.894	.842
		JS	3.112	2.344	4.132	<.001	-	-	-	.802	.699
		IMD	2.162	1.514	3.088	<.001	-	-	-	-	-
ASS11_R: Previously been referred to programs in associates domain	2,062	Any	1.455	1.084	1.952	.013	-	-	-	-	-
		JS	1.306	.953	1.791	.097	-	-	-	-	-
		IMD	1.465	.989	2.171	.057	-	-	-	-	-
SUB05: Abuses alcohol	8,264	Any	1.518	1.372	1.679	<.001	-	-	-	-	-
		JS	1.472	1.321	1.640	<.001	-	-	-	-	-
		IMD	1.521	1.316	1.759	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
SUB02: Drinks on a regular basis	8,218	Any	1.492	1.346	1.654	<.001	-	-	-	-	-
		JS	1.437	1.287	1.605	<.001	-	-	-	-	-
		IMD	1.534	1.325	1.775	<.001	-	-	-	-	-
SUB06: Drinks to excess during leisure time	8,205	Any	1.461	1.319	1.619	<.001	-	-	-	-	-
		JS	1.433	1.284	1.600	<.001	-	-	-	-	-
		IMD	1.454	1.256	1.682	<.001	-	-	-	-	-
SUB07: Drinks to excess in social situations	8,182	Any	1.487	1.343	1.647	<.001	-	1.068	.560	-	-
		JS	1.437	1.288	1.603	<.001	-	1.014	.908	-	-
		IMD	1.560	1.350	1.804	<.001	-	-	-	-	-
SUB08: Drinks to relieve stress	8,126	Any	1.347	1.209	1.501	<.001	-	-	-	1.964	<.001
		JS	1.319	1.176	1.481	<.001	-	-	-	1.934	<.001
		IMD	1.350	1.159	1.572	<.001	-	-	-	-	-
SUB18: Abuses drugs	8,290	Any	2.239	1.992	2.516	<.001	-	-	-	3.158	<.001
		JS	2.287	2.012	2.599	<.001	-	-	-	3.538	<.001
		IMD	1.931	1.628	2.290	<.001	-	-	-	-	-
SUB15: Uses drugs on regular basis	8,234	Any	1.954	1.761	2.168	<.001	-	-	-	-	-
		JS	1.952	1.745	2.185	<.001	-	-	-	-	-
		IMD	1.876	1.612	2.184	<.001	-	-	-	1.133	.634
SUB19: Uses drugs during leisure time	8,244	Any	2.094	1.879	2.334	<.001	-	-	-	-	-
		JS	2.062	1.834	2.319	<.001	-	-	-	-	-
		IMD	2.011	1.713	2.360	<.001	-	-	-	1.144	.613

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
SUB20: Uses drugs in social situations	8,234	Any	2.115	1.898	2.356	<.001	-	-	-	-	-
		JS	2.113	1.879	2.376	<.001	-	-	-	-	-
		IMD	1.928	1.646	2.259	<.001	-	-	-	1.167	.562
SUB21: Uses drugs to relieve stress	8,142	Any	1.813	1.636	2.009	<.001	-	-	-	-	-
		JS	1.820	1.629	2.033	<.001	-	-	-	2.501	<.001
		IMD	1.629	1.405	1.889	<.001	-	-	-	-	-
SUB27: Prior substance abuse assessment	8,218	Any	1.624	1.468	1.796	<.001	-	1.126	.257	2.129	<.001
		JS	1.638	1.470	1.825	<.001	-	1.168	.167	2.379	<.001
		IMD	1.480	1.281	1.709	<.001	-	1.048	.733	-	-
SUB29: Has completed substance abuse treatment	8,198	Any	1.198	1.078	1.331	<.001	-	.793	.028	-	-
		JS	1.212	1.083	1.357	<.001	-	.825	.087	-	-
		IMD	1.014	.870	1.182	.857	-	-	-	-	-
SUB01_2: Early age alcohol use	10,273	Any	1.569	1.434	1.716	<.001	-	-	-	-	-
		JS	1.527	1.387	1.681	<.001	-	-	-	-	-
		IMD	1.692	1.489	1.922	<.001	-	1.191	.198	-	-
SUB03_2: Frequently engages in binge drinking	10,210	Any	1.461	1.335	1.600	<.001	-	-	-	1.970	<.001
		JS	1.471	1.335	1.622	<.001	-	-	-	2.044	<.001
		IMD	1.344	1.182	1.529	<.001	-	-	-	-	-
SUB04_2: Has combined the use of alcohol and drugs	10,176	Any	1.717	1.569	1.880	<.001	-	-	-	2.212	<.001
		JS	1.676	1.522	1.847	<.001	-	-	-	2.197	<.001
		IMD	1.684	1.481	1.915	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
SUB09_2: Alcohol use interferes with employment	10,110	Any	1.478	1.331	1.642	<.001	-	-	-	-	-
		JS	1.447	1.293	1.619	<.001	-	-	-	-	-
		IMD	1.544	1.337	1.785	<.001	-	-	-	-	-
SUB10_2: Alcohol use interferes with interpersonal relationships	10,249	Any	1.398	1.275	1.533	<.001	-	-	-	1.968	<.001
		JS	1.402	1.270	1.547	<.001	-	-	-	1.951	<.001
		IMD	1.348	1.183	1.537	<.001	-	-	-	-	-
SUB12_2: Alcohol or drug use has resulted in law violations	11,110	Any	2.086	1.893	2.299	<.001	-	-	-	-	-
		JS	2.016	1.815	2.239	<.001	-	-	-	-	-
		IMD	1.894	1.642	2.186	<.001	-	-	-	1.087	.741
SUB13_2: Alcohol use interferes with physical/emotional well-being	10,024	Any	1.195	1.063	1.343	.003	-	.907	.353	1.742	<.001
		JS	1.217	1.075	1.378	.002	-	-	-	1.821	<.001
		IMD	1.222	1.038	1.438	.016	-	.746	.045	-	-
SUB14_2: Early age drug use	10,282	Any	2.204	2.010	2.416	<.001	-	-	-	-	-
		JS	2.159	1.956	2.384	<.001	-	-	-	-	-
		IMD	2.101	1.838	2.400	<.001	-	-	-	-	-
SUB16_2: Has gone on drug-taking bouts/binges	10,149	Any	1.817	1.659	1.990	<.001	-	1.448	<.001	-	-
		JS	1.829	1.659	2.017	<.001	-	-	-	2.581	<.001
		IMD	1.684	1.478	1.918	<.001	-	-	-	.881	.621
SUB17_2: Has combined the use of different drugs	10,122	Any	1.999	1.825	2.190	<.001	-	1.479	<.001	-	-
		JS	1.976	1.793	2.179	<.001	-	1.512	<.001	2.632	<.001
		IMD	1.882	1.653	2.143	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
SUB22_2: Drug use interferes with employment	10,092	Any	1.685	1.537	1.846	<.001		1.346	.002		
		JS	1.639	1.486	1.808	<.001	-	-	-	-	-
		IMD	1.630	1.430	1.856	<.001	-	1.269	.057	-	-
SUB23_2: Drug use interferes with interpersonal relationships	10,234	Any	1.760	1.608	1.926	<.001	-	-	-	-	-
		JS	1.759	1.596	1.939	<.001	-	-	-	2.421	<.001
		IMD	1.598	1.404	1.819	<.001	-	1.114	.386	-	-
SUB26_2: Drug use interferes with physical/emotional well-being	9,959	Any	1.503	1.365	1.655	<.001	-	1.192	.075	2.042	<.001
		JS	1.493	1.347	1.655	<.001	-	-	-	2.169	<.001
		IMD	1.438	1.255	1.648	<.001	-	.966	.798	-	-
SUB07_R: Excessive alcohol use is part of the offender's lifestyle	2,013	Any	1.354	1.109	1.654	.003	-	-	-	-	-
		JS	1.363	1.101	1.687	.004	-	-	-	-	-
		IMD	1.214	.916	1.608	.178	-	.663	.141	-	-
SUB14_R: Regular drug use is part of the offender's lifestyle	2,033	Any	2.580	2.090	3.184	<.001	-	-	-	-	-
		JS	2.528	2.014	3.174	<.001	-	-	-	-	-
		IMD	2.533	1.860	3.448	<.001	-	-	-	-	-
SUB16_R: Becomes violent when drinking or using drugs	1,958	Any	2.267	1.846	2.784	<.001	-	-	-	-	-
		JS	2.287	1.832	2.855	<.001	-	-	-	-	-
		IMD	2.066	1.544	2.766	<.001	-	1.026	.934	-	-
SUB17_R: Alcohol and/or drug use is part of offence cycle	2,026	Any	1.601	1.290	1.988	<.001	-	-	-	-	-
		JS	1.557	1.234	1.965	<.001	-	-	-	-	-
		IMD	1.809	1.311	2.496	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
SUB28_2: Previously Referred/participated in substance abuse programs	10,316	Any	1.382	1.263	1.511	<.001	-	.926	.409	1.917	<.001
		JS	1.388	1.261	1.528	<.001	-	1.035	.732	2.160	<.001
		IMD	1.314	1.157	1.493	<.001	-	.853	.198	-	-
COM02: Residence poorly maintained	6,763	Any	1.265	1.036	1.546	.021	-	-	-	2.594	<.001
		JS	1.215	.979	1.506	.077	-	-	-	2.619	<.001
		IMD	1.344	1.017	1.776	.038	-	-	-	-	-
COM03: Has poor self-presentation	8,296	Any	1.224	.971	1.543	.088	-	-	-	2.558	<.001
		JS	1.246	.975	1.593	.079	-	-	-	2.645	<.001
		IMD	1.405	1.031	1.914	.032	-	-	-	-	-
COM04: Has poor hygiene	8,183	Any	.957	.677	1.354	.805	-	-	-	2.809	.010
		JS	.951	.655	1.382	.793	-	-	-	2.631	.019
		IMD	1.003	.613	1.641	.992	-	-	-	-	-
COM05: Has physical problems	8,200	Any	.768	.682	.864	<.001	-	-	-	1.044	.763
		JS	.761	.670	.865	<.001	-	-	-	1.096	.530
		IMD	.807	.680	.957	.014	-	.530	<.001	-	-
COM06: Has dental problems	8,078	Any	.884	.765	1.023	.097	-	.618	<.001	-	-
		JS	.819	.698	.961	.014	-	.597	.001	1.173	.322
		IMD	.864	.698	1.068	.176	-	-	-	-	-
COM07: Has dietary problems	8,146	Any	.790	.625	.999	.049	-	-	-	-	-
		JS	.813	.632	1.045	.106	-	-	-	-	-
		IMD	.777	.548	1.101	.155	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
COM09: Has outstanding debts	7,806	Any	.768	.690	.855	<.001	-	.635	<.001	-	-
		JS	.759	.676	.851	<.001	-	-	-	-	-
		IMD	.872	.747	1.017	.081	-	.665	.009	-	-
COM14: Unable to express verbally	8,300	Any	1.111	.870	1.418	.399	-	-	-	2.672	<.001
		JS	1.177	.910	1.522	.214	-	-	-	2.965	<.001
		IMD	.885	.608	1.290	.526	-	-	-	-	-
COM19: Prior assessment for community functioning	8,208	Any	1.718	1.477	1.998	<.001	-	-	-	2.687	<.001
		JS	1.615	1.375	1.897	<.001	-	-	-	2.588	<.001
		IMD	1.648	1.342	2.023	<.001	-	-	-	-	-
COM21: Has completed a community skills program	8,193	Any	1.322	1.071	1.633	.009	-	-	-	-	-
		JS	1.180	.937	1.485	.159	-	-	-	1.871	.008
		IMD	1.370	1.027	1.827	.032	-	-	-	-	-
COM01_2: Unstable accommodation	10,256	Any	1.968	1.797	2.155	<.001	-	-	-	-	-
		JS	1.829	1.660	2.015	<.001	-	-	-	2.576	<.001
		IMD	2.004	1.763	2.278	<.001	-	-	-	-	-
COM08_2: Financial instability	8,824	Any	1.301	1.089	1.554	.004	-	-	-	-	-
		JS	1.313	1.083	1.593	.006	-	-	-	-	-
		IMD	1.193	.927	1.535	.171	-	-	-	-	-
COM15_2: Constructive leisure activities are limited	10,248	Any	1.756	1.593	1.935	<.001	-	-	-	-	-
		JS	1.725	1.553	1.916	<.001	-	-	-	-	-
		IMD	1.770	1.533	2.043	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
COM17_2: Use of community resources is limited	10,261	Any	1.506	1.327	1.711	<.001	-	-	-	-	-
		JS	1.518	1.328	1.737	<.001	-	-	-	-	-
		IMD	1.410	1.182	1.682	<.001	-	-	-	-	-
ASS01_2: Community attachment is limited	11,110	Any	1.334	1.126	1.580	<.001	-	-	-	-	-
		JS	1.350	1.122	1.623	.001	-	-	-	-	-
		IMD	1.308	1.018	1.680	.036	-	-	-	-	-
COM18_2: Has used social assistance	10,013	Any	1.197	1.090	1.315	<.001	-	.895	.319	-	-
		JS	1.158	1.047	1.280	.004	-	-	-	-	-
		IMD	1.253	1.093	1.436	.001	-	.886	.410	-	-
COM20_2: Previously referred/participated in community skills program	10,259	Any	1.332	1.130	1.570	<.001	-	-	-	1.984	.001
		JS	1.189	.994	1.422	.058	-	-	-	2.026	<.001
		IMD	1.402	1.122	1.752	.003	-	-	-	-	-
PER01: Feels especially self-important	8259	Any	1.685	1.475	1.923	<.001	-	-	-	-	-
		JS	1.657	1.440	1.906	<.001	-	-	-	-	-
		IMD	1.848	1.548	2.206	<.001	-	-	-	-	-
PER02: Physical prowess problematic	8,272	Any	2.145	1.839	2.502	<.001	-	-	-	-	-
		JS	2.043	1.738	2.401	<.001	-	-	-	-	-
		IMD	1.901	1.548	2.334	<.001	-	1.160	.450	-	-
PER03: Family ties problematic	8,255	Any	1.499	1.354	1.658	<.001	-	-	-	-	-
		JS	1.404	1.260	1.565	<.001	-	-	-	1.872	<.001
		IMD	1.648	1.426	1.903	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
PER04: Ethnicity is problematic	8,275	Any	2.074	1.579	2.725	<.001	-	.961	.858	-	-
		JS	2.093	1.578	2.776	<.001	-	1.081	.736	-	-
		IMD	1.954	1.372	2.782	<.001	-	1.013	.964	-	-
PER05: Religion is problematic	8,288	Any	1.440	.875	2.369	.151	-	-	-	3.193	.004
		JS	1.752	1.058	2.901	.029	-	-	-	-	-
		IMD	.817	.353	1.890	.636	-	-	-	3.232	.062
PER12: Has disregard for others	8,257	Any	2.453	2.192	2.744	<.001	-	-	-	-	-
		JS	2.291	2.030	2.585	<.001	-	-	-	-	-
		IMD	2.529	2.131	3.001	<.001	-	-	-	-	-
PER13: Socially unaware	8,269	Any	1.769	1.580	1.982	<.001	-	-	-	2.365	<.001
		JS	1.692	1.500	1.909	<.001	-	-	-	2.362	<.001
		IMD	1.680	1.436	1.966	<.001	-	-	-	3.428	<.001
PER20: Poor conflict resolution	8,247	Any	2.841	2.515	3.211	<.001	-	-	-	-	-
		JS	2.925	2.556	3.347	<.001	-	-	-	-	-
		IMD	2.830	2.344	3.416	<.001	-	-	-	-	-
PER25: Worries unreasonably	8,185	Any	1.142	1.004	1.299	.043	-	.770	.056	.937	.663
		JS	1.122	.978	1.289	.101	-	.829	.198	-	-
		IMD	1.334	1.118	1.592	.001	-	.954	.789	-	-
PER26: Takes risk inappropriately	8,268	Any	1.686	1.502	1.893	<.001	-	2.362	<.001	-	-
		JS	1.746	1.538	1.981	<.001	-	2.243	<.001	-	-
		IMD	1.479	1.250	1.748	<.001	-	2.003	<.001	.752	.282

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
PER29: Is not conscientious	8,206	Any	2.033	1.836	2.252	<.001	-	-	-	-	-
		JS	2.014	1.806	2.246	<.001	-	-	-	-	-
		IMD	1.849	1.599	2.138	<.001	-	-	-	-	-
PER31: Has difficulty performing sexually	7,570	Any	.669	.516	.866	.002	-	-	-	1.677	.035
		JS	.640	.481	.852	.002	-	1.086	.760	1.639	.051
		IMD	.770	.532	1.114	.166	-	-	-	2.337	.032
PER32: Sexual identity problem	8,063	Any	.707	.477	1.048	.084	-	-	-	2.705	.012
		JS	.605	.385	.951	.030	-	-	-	2.532	.023
		IMD	.839	.483	1.458	.533	-	-	-	-	-
PER36: Diagnosed as disordered in the past	8,189	Any	1.825	1.616	2.061	<.001	-	-	-	-	-
		JS	1.720	1.512	1.957	<.001	-	-	-	-	-
		IMD	2.029	1.724	2.388	<.001	-	-	-	-	-
PER37: Diagnosed as disordered currently	8,144	Any	1.775	1.538	2.049	<.001	-	-	-	2.827	<.001
		JS	1.711	1.470	1.992	<.001	-	-	-	2.554	<.001
		IMD	1.719	1.415	2.089	<.001	-	-	-	3.756	<.001
PER38: Prior personal/emotional assessments	8,211	Any	1.639	1.474	1.821	<.001	-	-	-	2.257	<.001
		JS	1.562	1.395	1.749	<.001	-	-	-	2.176	<.001
		IMD	1.660	1.431	1.926	<.001	-	-	-	-	-
PER39: Prescribed medication in the past	8,047	Any	1.586	1.429	1.760	<.001	-	-	-	2.846	<.001
		JS	1.504	1.345	1.682	<.001	-	-	-	2.769	<.001
		IMD	1.733	1.495	2.010	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
PER40: Prescribed medication currently	8,095	Any	1.416	1.263	1.589	<.001	-	-	-	2.326	<.001
		JS	1.384	1.224	1.564	<.001	-	-	-	2.122	<.001
		IMD	1.516	1.292	1.780	<.001	-	-	-	4.462	<.001
PER41: Past hospitalization	8,127	Any	1.322	1.174	1.510	<.001	-	1.043	.740	2.494	<.001
		JS	1.324	1.158	1.515	<.001	-	-	-	2.448	<.001
		IMD	1.350	1.131	1.610	<.001	-	.856	.373	3.140	<.001
PER42: Current hospitalization	8,265	Any	1.675	1.252	2.242	<.001	-	-	-	6.900	<.001
		JS	1.780	1.317	2.407	<.001	-	-	-	4.962	<.001
		IMD	1.441	.961	2.161	.077	-	-	-	11.215	<.001
PER43: Received outpatient services in the past	8,103	Any	1.330	1.175	1.506	<.001	-	-	-	2.432	<.001
		JS	1.227	1.074	1.403	.003	-	-	-	2.196	<.001
		IMD	1.549	1.307	1.836	<.001	-	-	-	3.578	<.001
PER44: Receiving outpatient services prior to admission	8,192	Any	1.081	.883	1.324	.448	-	-	-	2.353	<.001
		JS	1.098	.885	1.362	.396	-	-	-	2.418	<.001
		IMD	.971	.721	1.309	.848	-	-	-	2.169	.025
PER07_2: Problems recognition skills are limited	10,327	Any	1.619	1.479	1.771	<.001	-	-	-	1.057	.682
		JS	1.592	1.445	1.753	<.001	-	-	-	1.156	.298
		IMD	1.631	1.432	1.858	<.001	-	-	-	-	-
PER08_2: Difficulty solving interpersonal problems	10,303	Any	2.238	2.015	2.485	<.001	-	-	-	2.810	<.001
		JS	2.228	1.988	2.497	<.001	-	-	-	3.061	<.001
		IMD	2.213	1.890	2.590	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
PER09_2: Ability to generate choices is limited	10,314	Any	1.796	1.633	1.976	<.001	-	-	-	1.311	.046
		JS	1.837	1.657	2.038	<.001	-	-	-	-	-
		IMD	1.573	1.372	1.805	<.001	-	-	-	-	-
PER10_2: Ability to link actions to consequences is limited	10,331	Any	1.222	1.118	1.335	<.001	-	-	-	-	-
		JS	1.243	1.130	1.368	<.001	-	-	-	-	-
		IMD	1.116	.983	1.267	.090	-	-	-	-	-
PER11_2: Difficulty setting realistic goals	10,243	Any	1.893	1.719	2.084	<.001	-	-	-	-	-
		JS	1.894	1.710	2.097	<.001	-	-	-	2.475	<.001
		IMD	1.657	1.448	1.895	<.001	-	-	-	-	-
PER14_2: Impulsive	10,357	Any	2.932	2.566	3.350	<.001	-	-	-	-	-
		JS	3.382	2.899	3.945	<.001	-	-	-	-	-
		IMD	2.297	1.895	2.783	<.001	-	-	-	-	-
PER15_2: Empathy skills limited	10,170	Any	2.101	1.916	2.304	<.001	-	-	-	-	-
		JS	2.043	1.851	2.254	<.001	-	-	-	-	-
		IMD	1.921	1.687	2.187	<.001	-	-	-	-	-
PER16_2: Displays narrow and rigid thinking	10,252	Any	2.189	1.999	2.396	<.001	-	-	-	2.761	<.001
		JS	2.093	1.900	2.307	<.001	-	-	-	2.845	<.001
		IMD	2.239	1.966	2.551	<.001	-	-	-	3.512	<.001
PER17_2: Frequently acts in aggressive manner	10,260	Any	3.267	2.977	3.584	<.001	-	2.623	<.001	-	-
		JS	3.464	3.133	3.830	<.001	-	-	-	-	-
		IMD	2.583	2.265	2.946	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
PER06_R: Gives up easily when challenged	1,941	Any	1.366	1.106	1.688	.004	-	-	-	-	-
		JS	1.486	1.101	1.860	<.001	-	-	-	-	-
		IMD	1.220	.916	1.645	.190	-	-	-	-	-
PER14_R: Listening skills are limited	2,018	Any	1.636	1.311	2.041	<.001	-	-	-	-	-
		JS	1.754	1.390	2.214	<.001	-	-	-	-	-
		IMD	1.570	1.163	2.119	.003	-	-	-	-	-
PER22_R: Frequently interprets neutral situations as hostile	1,949	Any	2.605	2.075	3.272	<.001	-	-	-	-	-
		JS	2.933	2.312	3.720	<.001	-	-	-	-	-
		IMD	1.672	1.222	2.288	.001	-	-	-	-	-
PER18_2: Assertiveness skills limited	10,337	Any	1.304	1.192	1.427	<.001	-	-	-	-	-
		JS	1.297	1.178	1.429	<.001	-	-	-	-	-
		IMD	1.362	1.196	1.551	<.001	-	-	-	-	-
PER19_2: Difficulty coping with stress	10,160	Any	1.676	1.516	1.853	<.001	-	-	-	-	-
		JS	1.574	1.413	1.753	<.001	-	-	-	2.464	<.001
		IMD	2.059	1.762	2.405	<.001	-	-	-	-	-
PER21_2: Time management skills problematic	10,036	Any	1.983	1.809	2.173	<.001	-	-	-	-	-
		JS	1.957	1.775	2.159	<.001	-	-	-	-	-
		IMD	1.862	1.633	2.123	<.001	-	-	-	-	-
PER22_2: Gambling has been problematic	10,110	Any	1.093	.904	1.321	.360	-	-	-	-	-
		JS	1.079	.880	1.323	.465	-	-	-	-	-
		IMD	1.242	.961	1.607	.098	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
PER23_2: Low frustration tolerance	10,149	Any	2.697	2.460	2.957	<.001	-	2.137	<.001	3.978	<.001
		JS	2.755	2.495	3.042	<.001	-	2.161	<.001	4.293	<.001
		IMD	2.396	2.101	2.731	<.001	-	1.784	<.001		
PER24_2: Hostile	10,273	Any	2.590	2.343	2.863	<.001	-	1.793	<.001	4.384	<.001
		JS	2.621	2.359	2.912	<.001	-	1.755	<.001	4.754	<.001
		IMD	2.181	1.903	2.499	<.001	-	1.655	<.001		
PER27_2: Engages in thrill-seeking behaviour	10,178	Any	2.018	1.841	2.213	<.001	-	-	-	-	-
		JS	1.989	1.803	2.194	<.001	-	-	-	-	-
		IMD	1.909	1.677	2.173	<.001	-	-	-	.932	.811
PER30_2: Manipulates others to achieve goals	10,078	Any	1.751	1.599	1.918	<.001	-	-	-	2.258	<.001
		JS	1.696	1.539	1.870	<.001	-	-	-	2.287	<.001
		IMD	1.851	1.623	2.111	<.001	-	-	-	-	-
PER33_2: Has deviant sexual preferences	10,059	Any	.561	.473	.665	<.001	-	-	-	3.072	.002
		JS	.412	.335	.506	<.001	-	-	-	2.936	.004
		IMD	.941	.758	1.169	.584	-	-	-	3.830	.015
PER34_2: Displays deviant sexual attitudes	10,120	Any	.731	.635	.842	<.001	-	-	-	1.622	.048
		JS	.621	.529	.729	<.001	-	-	-	1.590	.066
		IMD	.991	.820	1.198	.928	-	-	-	-	-
PER35: Mentally deficient	8,184	Any	1.557	1.238	1.960	<.001	-	-	-	-	-
		JS	1.399	1.092	1.791	.008	-	-	-	-	-
		IMD	1.760	1.307	2.371	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
PER45_2: Previously referred/participated in programs re: personal domain	10,370	Any	1.329	1.209	1.459	<.001	-	-	-	1.851	<.001
		JS	1.227	1.109	1.358	<.001	-	-	-	1.924	<.001
		IMD	1.378	1.207	1.572	<.001	-	-	-	-	-
ATT11: Basic life skills have no value	8,259	Any	2.149	1.851	2.495	<.001	-	-	-	-	-
		JS	2.049	1.752	2.396	<.001	-	-	-	-	-
		IMD	2.012	1.651	2.451	<.001	-	-	-	-	-
ATT13: Elderly have no value	8,249	Any	2.209	1.515	3.222	<.001	-	-	-	-	-
		JS	2.113	1.429	3.126	<.001	-	-	-	-	-
		IMD	1.961	1.203	3.197	.007	-	-	-	-	-
ATT14: Women/men roles are unequal	7,949	Any	1.224	1.056	1.420	.007	-	-	-	-	-
		JS	1.155	.984	1.355	.078	-	-	-	-	-
		IMD	1.361	1.112	1.665	.003	-	-	-	-	-
ATT15: Ethnically intolerant	8,179	Any	2.729	2.019	3.689	<.001	-	-	-	-	-
		JS	2.883	2.123	3.915	<.001	-	-	-	-	-
		IMD	1.306	.830	2.054	.248	-	-	-	-	-
ATT16: Intolerant of other religions	8,213	Any	2.020	1.052	3.878	.035	-	-	-	-	-
		JS	2.083	1.063	4.081	.032	-	-	-	-	-
		IMD	1.067	.378	3.013	.902	-	-	-	-	-
ATT17: Intolerant of disabled persons	8,240	Any	1.786	.849	3.759	.127	-	-	-	-	-
		JS	1.453	.646	3.269	.367	-	-	-	-	-
		IMD	2.260	.921	5.543	.075	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
ATT01_2: Displays negative attitudes towards criminal justice system	10,377	Any	2.009	1.820	2.216	<.001	-	-	-	-	-
		JS	2.079	1.868	2.315	<.001	-	-	-	-	-
		IMD	1.737	1.507	2.002	<.001	-	-	-	-	-
ATT04_2: Displays negative attitudes towards correctional systems	10,362	Any	2.576	2.352	2.821	<.001	-	2.132	<.001	-	-
		JS	2.572	2.333	2.836	<.001	-	2.104	<.001	3.508	<.001
		IMD	2.293	2.013	2.611	<.001	-	1.778	<.001	-	-
ATT03_R: Takes pride in criminal exploits	2,016	Any	2.318	1.814	2.961	<.001	-	-	-	-	-
		JS	2.183	1.689	2.820	<.001	-	-	-	-	-
		IMD	2.058	1.494	2.837	<.001	-	-	-	-	-
ATT07_2: Displays non-confirming attitudes towards society	8,186	Any	1.582	1.424	1.758	<.001	-	-	-	-	-
		JS	1.541	1.377	1.725	<.001	-	-	-	-	-
		IMD	1.520	1.306	1.769	<.001	-	-	-	-	-
ATT10_2: Values a substance-abusing lifestyle	10,225	Any	1.751	1.597	1.919	<.001	-	-	-	-	-
		JS	1.724	1.562	1.904	<.001	-	-	-	-	-
		IMD	1.703	1.491	1.946	<.001	-	2.103	<.001	-	-
ATT18_2: Disrespects personal belongings	10,314	Any	2.377	2.170	2.603	<.001	-	-	-	-	-
		JS	2.277	2.066	2.509	<.001	-	1.875	<.001	-	-
		IMD	2.168	1.907	2.465	<.001	-	-	-	-	-
ATT19_2: Disrespects public or commercial property	10,308	Any	2.145	1.958	2.349	<.001	-	-	-	-	-
		JS	2.134	1.936	2.351	<.001	-	-	-	-	-
		IMD	2.068	1.819	2.351	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
ATT21_2: Attitudes support spousal violence	10,160	Any	1.338	1.192	1.503	<.001	-	.971	.781	2.085	.001
		JS	1.308	1.156	1.481	<.001	-	.937	.570	2.317	<.001
		IMD	1.407	1.199	1.650	<.001	-	1.040	.783	-	-
ATT22_2: Attitudes support instrumental/goal-oriented violence	10,253	Any	3.126	2.851	3.428	<.001	-	-	-	-	-
		JS	3.259	2.950	3.600	<.001	-	-	-	-	-
		IMD	2.684	2.354	3.061	<.001	-	-	-	-	-
ATT09_R: Attitudes support expressive/emotional violence	2,043	Any	1.935	1.586	2.360	<.001	-	-	-	-	-
		JS	2.036	1.647	2.517	<.001	-	-	-	-	-
		IMD	1.528	1.158	2.015	.003	-	-	-	-	-
ATT10_R: Denies crime or uses excuses to justify or minimize crime	2,063	Any	1.253	1.029	1.526	.025	-	-	-	-	-
		JS	1.319	1.067	1.630	.010	-	-	-	-	-
		IMD	1.008	.766	1.328	.953	-	-	-	-	-
ATT11_R: Previously referred to programs addressing deficits in attitudes domain	2,058	Any	1.799	1.427	2.269	<.001	-	-	-	-	-
		JS	1.659	1.298	2.120	<.001	-	-	-	-	-
		IMD	1.671	1.222	2.285	.001	-	-	-	-	-
ATT23_2: Difficulty setting long-term goals	10,341	Any	2.427	2.202	2.675	<.001	-	-	-	-	-
		JS	2.436	2.191	2.707	<.001	-	-	-	-	-
		IMD	2.022	1.758	2.327	<.001	-	-	-	-	-
YCR01: Previous offences in youth court	10,374	Any	3.021	2.757	3.312	<.001	-	-	-	-	-
		JS	3.079	2.789	3.399	<.001	-	-	-	-	-
		IMD	2.671	2.341	3.046	<.001	-	-	-	1.224	.466

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
YCR0206: Previous youth convictions (clumped – 5 categories)	10,240	Any	1.414	1.377	1.451	<.001	X	-	-	-	-
		JS	1.404	1.366	1.443	<.001	X	1.321	<.001	-	-
		IMD	1.347	1.301	1.395	<.001	X	-	-	1.102	.254
YCR08: Youth dispositions: community supervision	10,279	Any	3.022	2.757	3.313	<.001	-	-	-	-	-
		JS	3.028	2.744	3.340	<.001	-	-	-	-	-
		IMD	2.712	2.381	3.090	<.001	-	-	-	1.116	.718
YCR09: Youth dispositions: open custody	10,242	Any	2.702	2.445	2.986	<.001	-	-	-	-	-
		JS	2.689	2.421	2.987	<.001	-	-	-	-	-
		IMD	2.380	2.078	2.725	<.001	-	-	-	-	-
YCR10: Youth dispositions: Secure custody	10,277	Any	3.085	2.796	3.405	<.001	-	-	-	-	-
		JS	3.090	2.787	3.427	<.001	-	2.488	<.001	-	-
		IMD	2.679	2.345	3.059	<.001	-	-	-	-	-
YCR11: Failure during community supervision	10,089	Any	3.338	3.027	3.680	<.001	-	-	-	-	-
		JS	3.304	2.981	3.661	<.001	-	-	-	-	-
		IMD	2.866	2.510	3.273	<.001	-	-	-	-	-
YCR12: Disciplinary transfers from open to secure custody	9,913	Any	3.956	3.220	4.860	<.001	-	-	-	-	-
		JS	3.735	3.038	4.592	<.001	-	-	-	-	-
		IMD	3.441	2.710	4.370	<.001	-	-	-	-	-
YCR13: Disciplinary report in secure custody	9,598	Any	3.951	3.330	4.688	<.001	-	-	-	-	-
		JS	4.071	3.425	4.838	<.001	-	-	-	-	-
		IMD	2.921	2.365	3.608	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
YCR14: Attempt escape/UAL/escape from secure custody	10,089	Any	2.958	2.458	3.560	<.001	-	-	-	-	-
		JS	2.858	2.365	3.454	<.001	-	2.083	<.001	-	-
		IMD	2.968	2.376	3.708	<.001	-	-	-	-	-
YCR15: transfer from secure custody to adult facility	10,192	Any	3.725	2.615	5.305	<.001	-	1.976	.014	-	-
		JS	3.998	2.810	5.688	<.001	-	2.278	.003	-	-
		IMD	2.350	1.519	3.635	<.001	-	1.047	.906	-	-
ACR01: Previous offences in adult court	10,424	Any	1.987	1.750	2.255	<.001	-	1.283	.091	2.646	<.001
		JS	2.083	1.810	2.398	<.001	-	1.379	.045	3.157	<.001
		IMD	1.713	1.425	2.059	<.001	-	1.007	.969	-	-
ACR0206: Previous convictions (clumped)	10,419	Any	1.178	1.150	1.207	<.001	X	1.038	.156	-	-
		JS	1.174	1.144	1.204	<.001	X	1.032	.260	1.257	<.001
		IMD	1.162	1.122	1.204	<.001	V	1.030	.396	-	-
ACR08: Prior sanctions: community supervision	10,406	Any	1.767	1.591	1.964	<.001	-	1.093	.437	2.323	<.001
		JS	1.819	1.621	2.041	<.001	-	1.150	.255	2.638	<.001
		IMD	1.578	1.354	1.838	<.001	-	.981	.897	-	-
ACR09: Prior sanctions: Provincial terms	10,404	Any	2.073	1.873	2.296	<.001	-	1.471	<.001	-	-
		JS	2.149	1.922	2.403	<.001	-	1.592	<.001	-	-
		IMD	1.779	1.535	2.061	<.001	-	1.143	.367	-	-
ACR10: Prior sanctions: federal terms	10,417	Any	1.959	1.780	2.155	<.001	-	-	-	2.786	<.001
		JS	1.879	1.697	2.079	<.001	-	-	-	2.925	<.001
		IMD	1.940	1.701	2.213	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
ACR11: Failure during community supervision	10,330	Any	2.255	2.048	2.483	<.001	-	1.462	<.001	2.941	<.001
		JS	2.332	2.099	2.590	<.001	-	1.539	<.001	3.273	<.001
		IMD	1.936	1.684	2.224	<.001	-	1.210	.166	-	-
ACR12: Segregation for disciplinary infractions	9,969	Any	3.429	3.110	3.781	<.001	-	-	-	4.536	<.001
		JS	3.493	3.151	3.871	<.001	-	2.826	<.001	4.755	<.001
		IMD	2.749	2.406	3.141	<.001	-	-	-	-	-
ACR13: Attempt escape/UAL escape	10,378	Any	1.938	1.746	2.150	<.001	-	1.393	.002	-	-
		JS	1.925	1.725	2.148	<.001	-	1.369	.004	-	-
		IMD	1.773	1.537	2.045	<.001	-	1.325	.041	-	-
ACR14: Reclassified to higher level of security	10,212	Any	2.843	2.534	3.190	<.001	-	-	-	5.200	<.001
		JS	2.734	2.426	3.082	<.001	-	-	-	5.557	<.001
		IMD	2.648	2.281	3.073	<.001	-	-	-	5.099	<.001
ACR15: Failures on conditional release	10,346	Any	1.891	1.728	2.069	<.001	-	1.541	<.001	2.428	<.001
		JS	1.868	1.696	2.056	<.001	-	1.524	<.001	2.593	<.001
		IMD	1.732	1.525	1.968	<.001	-	-	-	-	-
ACR16: Less than 6 months since last incarceration	10,405	Any	2.342	2.114	2.596	<.001	-	-	-	-	-
		JS	2.231	2.003	2.486	<.001	-	1.766	<.001	-	-
		IMD	2.217	1.931	2.545	<.001	-	-	-	-	-
ACR17: No crime free period of 1 year or more	10,397	Any	2.616	2.343	2.920	<.001	-	-	-	-	-
		JS	2.530	2.255	2.838	<.001	-	-	-	-	-
		IMD	2.340	2.024	2.706	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
OSR03: Prior drug cultivation	10,420	Any	.738	.523	1.043	.085	-	-	-	-	-
		JS	.816	.568	1.173	.272	-	-	-	-	-
		IMD	.540	.300	.971	.039	-	-	-	-	-
OSR04: Prior drug trafficking	10,413	Any	1.103	.981	1.240	.100	-	-	-	-	-
		JS	1.185	1.047	1.340	.007	-	-	-	-	-
		IMD	.812	.678	.972	.023	-	-	-	-	-
OSR05: Prior drug importation	10,415	Any	.781	.389	1.570	.489	-	-	-	-	-
		JS	.887	.429	1.834	.747	-	-	-	-	-
		IMD	.186	.026	1.348	.096	-	-	-	-	-
OSR06: Prior arson/firesetting	10,417	Any	1.767	1.338	2.333	<.001	-	-	-	6.588	<.001
		JS	1.834	1.375	2.446	<.001	-	-	-	6.069	<.001
		IMD	1.688	1.169	2.436	.005	-	-	-	5.453	.003
OSR09: Prior forcible confinement/kidnapping	10,416	Any	2.086	1.691	2.573	<.001	-	1.402	.091	5.076	<.001
		JS	2.064	1.660	2.565	<.001	-	1.143	.536	-	-
		IMD	2.240	1.725	2.907	<.001	-	-	-	-	-
OSR10: Prior violence (assault, robbery)	10,418	Any	2.727	2.487	3.000	<.001	-	2.114	<.001	3.846	<.001
		JS	2.887	2.601	3.206	<.001	-	-	-	4.225	<.001
		IMD	2.321	2.020	2.666	<.001	-	1.474	.008	-	-
OSR11: Prior sex offences	10,416	Any	.983	.832	1.160	.835	-	-	-	4.924	.025
		JS	.852	.708	1.025	.090	-	-	-	5.415	.017
		IMD	1.312	1.056	1.630	.014	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
OSR12: Prior attempt murder	10,420	Any	1.598	.950	2.688	.077	-	-	-	-	-
		JS	1.668	.972	2.862	.064	-	-	-	-	-
		IMD	.754	.302	1.884	.546	-	-	-	-	-
OSR13: Prior homicide offence	10,420	Any	1.449	.965	2.175	.074	-	-	-	-	-
		JS	1.577	1.036	2.402	.034	-	-	-	-	-
		IMD	1.106	.605	2.023	.743	-	-	-	-	-
OSR16: Prior victims were children	10,214	Any	1.291	1.098	1.591	.002	-	-	-	2.874	<.001
		JS	1.167	.978	1.392	.087	-	-	-	3.178	<.001
		IMD	1.633	1.323	2.015	<.001	-	1.119	.551	-	-
OSR17: Prior victims were handicapped/infirm	10,179	Any	1.465	.924	2.324	.105	-	-	-	-	-
		JS	1.246	.752	2.065	.394	-	-	-	-	-
		IMD	2.149	1.241	3.721	.006	-	-	-	-	-
OSR18 Prior victims were elderly	10,138	Any	1.628	1.212	2.188	<.001	-	-	-	4.423	<.001
		JS	1.597	1.170	2.179	.003	-	-	-	4.887	<.001
		IMD	1.662	1.127	2.452	.010	-	.630	.287	-	-
OSR1921: Number of prior victims	10,262	Any	1.443	1.394	1.494	<.001	X	1.323	<.001	1.696	<.001
		JS	1.444	1.392	1.499	<.001	X	1.323	<.001	1.749	<.001
		IMD	1.409	1.341	1.481	<.001	V	-	-	-	-
OSR22: Use of power/position or authority over prior victim	10,242	Any	1.458	1.302	1.633	<.001	-	-	-	3.642	<.001
		JS	1.400	1.241	1.579	<.001	-	-	-	4.091	<.001
		IMD	1.487	1.273	1.738	<.001	-	.989	.940	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
OSR25: Violence used against prior victim	10,270	Any	2.522	2.300	2.766	<.001	-	-	-	3.904	<.001
		JS	2.677	2.422	2.959	<.001	-	-	-	4.127	<.001
		IMD	2.206	1.932	2.520	<.001	-	1.519	.002	-	-
OSR26: Weapons used against prior victims	9,956	Any	2.412	2.171	2.680	<.001	-	1.795	<.001	3.436	<.001
		JS	2.464	2.206	2.752	<.001	-	1.823	<.001	3.579	<.001
		IMD	2.128	1.845	2.455	<.001	-	1.515	.001	-	-
OSR27: Caused death to prior victim	10,407	Any	1.433	1.013	2.028	.042	-	-	-	-	-
		JS	1.534	1.070	2.200	.020	-	-	-	-	-
		IMD	1.295	.797	2.105	.297	-	-	-	-	-
OSR28: Caused serious injury to prior victim	9,893	Any	1.912	1.675	2.183	<.001	-	1.339	.009	3.179	<.001
		JS	1.925	1.676	2.212	<.001	-	1.327	.017	3.216	<.001
		IMD	1.624	1.353	1.948	<.001	-	1.030	.847	-	-
OSR29: Caused minor injury to prior victim	10,008	Any	2.272	2.072	2.492	<.001	-	-	-	3.399	<.001
		JS	2.361	2.137	2.608	<.001	-	1.818	<.001	3.677	<.001
		IMD	2.106	1.845	2.405	<.001	-	1.475	.004	-	-
OSR3336: Sentence length for prior offences	10,423	Any	1.801	1.674	1.938	<.001	X	-	-	-	-
		JS	1.772	1.640	1.913	<.001	X	-	-	2.215	<.001
		IMD	1.607	1.458	1.770	<.001	X	-	-	-	-
OSR51: Current victims were children	10,412	Any	.512	.431	.607	<.001	-	-	-	.959	.885
		JS	.358	.290	.443	<.001	-	-	-	-	-
		IMD	.838	.673	1.044	.116	-	-	-	3.411	<.001

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
OSR52: Current victims were handicapped/infirm	10,395	Any	1.117	.747	1.671	.590	-	-	-	-	-
		JS	1.057	.683	1.635	.804	-	-	-	-	-
		IMD	1.243	.721	2.143	.433	-	-	-	-	-
OSR53: Current victims were elderly	10,363	Any	1.707	1.362	2.141	<.001	-	-	-	-	-
		JS	1.743	1.377	2.206	<.001	-	-	-	-	-
		IMD	1.431	1.045	1.961	.026	-	-	-	-	-
OSR5456: Number of current victims (0,1,2,3+)	10,409	Any	1.353	1.301	1.408	<.001	X	-	-	1.576	<.001
		JS	1.327	1.272	1.384	<.001	X	-	-	1.579	<.001
		IMD	1.329	1.258	1.404	<.001	X	-	-	-	-
OSR57: Use of power/position or authority over current victim	10,405	Any	1.032	.924	1.154	.574	-	-	-	1.862	<.001
		JS	.897	.794	1.014	.082	-	-	-	1.831	<.001
		IMD	1.182	1.014	1.378	.033	-	-	-	2.068	.013
OSR60: Violence used against current victim	10,410	Any	2.103	1.922	2.302	<.001	-	-	-	3.097	<.001
		JS	2.113	1.919	2.327	<.001	-	-	-	3.073	<.001
		IMD	1.763	1.552	2.003	<.001	-	-	-	-	-
OSR61: Weapon used against current victim	10,370	Any	2.183	1.968	2.422	<.001	-	-	-	-	-
		JS	2.181	1.956	2.432	<.001	-	-	-	-	-
		IMD	1.733	1.501	2.001	<.001	-	-	-	-	-
OSR62: Caused death to current victim	10,433	Any	1.592	1.380	1.837	<.001	-	-	-	-	-
		JS	1.593	1.371	1.852	<.001	-	-	-	1.136	.509
		IMD	1.505	1.238	1.830	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
OSR63: Serious injury to current victim	10,378	Any	1.809	1.621	2.019	<.001	-	-	-	-	-
		JS	1.790	1.594	2.010	<.001	-	-	-	-	-
		IMD	1.521	1.305	1.772	<.001	-	-	-	-	-
OSR64: Minor injury to current victim	10,389	Any	1.929	1.751	2.125	<.001	-	-	-	-	-
		JS	1.940	1.751	2.150	<.001	-	-	-	2.544	<.001
		IMD	1.680	1.468	1.923	<.001	-	-	-	-	-
SOH01: Sex offence history (current/past)	10,431	Any	.736	.647	.836	<.001	-	-	-	1.835	.106
		JS	.599	.518	.693	<.001	-	-	-	1.493	.322
		IMD	1.099	.929	1.301	.272	-	-	-	4.087	.005
SOH0204: Current sentence for sex or sex-related offence	10,430	Any	.541	.461	.635	<.001	-	-	-	1.643	.230
		JS	.391	.322	.475	<.001	-	-	-	1.241	.638
		IMD	.901	.735	1.105	.316	-	-	-	4.859	.002
SOH0305: Past sex or sex-related conviction	10,428	Any	1.032	.875	1.219	.706	-	-	-	-	-
		JS	.875	.727	1.053	.159	-	-	-	4.050	.068
		IMD	1.372	1.106	1.703	.004	-	-	-	-	-
SOH06: Incest – current sentence	10,428	Any	.222	.142	.347	<.001	-	-	-	-	-
		JS	.145	.079	.266	<.001	-	-	-	-	-
		IMD	.333	.182	.610	<.001	-	-	-	2.762	.339
SOH07: Pedophilia – current sentence	10,418	Any	.359	.263	.489	<.001	-	-	-	2.448	.303
		JS	.187	.119	.294	<.001	-	-	-	-	-
		IMD	.747	.521	1.072	.114	-	-	-	12.670	.004

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
SOH08: Sexual assault – current sentence	10,430	Any	.567	.474	.677	<.001	-	-	-	-	-
		JS	.422	.341	.524	<.001	-	-	-	-	-
		IMD	.933	.744	1.170	.549	-	-	-	5.484	.009
SOH09: Other current sex offence	10,426	Any	.352	.230	.539	<.001	-	-	-	-	-
		JS	.158	.081	.309	<.001	-	-	-	-	-
		IMD	.810	.504	1.302	.385	-	-	-	-	-
SOH10: Incest – past sentence	10,423	Any	.462	.237	.900	.023	-	-	-	-	-
		JS	.278	.112	.688	.006	-	-	-	-	-
		IMD	.769	.333	1.777	.539	-	-	-	-	-
SOH11: Pedophilia – past sentence	10,414	Any	.593	.405	.870	.007	-	-	-	-	-
		JS	.323	.190	.549	<.001	-	-	-	-	-
		IMD	1.201	.773	1.866	.415	-	-	-	-	-
SOH12: Sexual assault = past sentence	10,419	Any	.996	.828	1.198	.963	-	-	-	-	-
		JS	.858	.698	1.055	.146	-	-	-	-	-
		IMD	1.337	1.052	1.699	.018	-	-	-	-	-
SOH13: Other previous sex offence	10,423	Any	.944	.665	1.339	.745	-	-	-	-	-
		JS	.898	.613	1.316	.581	-	-	-	-	-
		IMD	1.137	.710	1.819	.594	-	-	-	24.984	.023
SOH1416: Number of sex offence victims	10,423	Any	.843	.787	.902	<.001	✓	-	-	1.282	.210
		JS	.761	.703	.825	<.001	X	-	-	1.180	.437
		IMD	1.034	.949	1.127	.442	✓	-	-	2.016	.002

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
SOH17: Sex victims were female children (under 12)	10,403	Any	.468	.368	.596	<.001	-	-	-	2.739	.073
		JS	.323	.238	.438	<.001	-	-	-	2.159	.196
		IMD	.757	.556	1.030	.077	-	-	-	6.993	.003
SOH18: Sex victims were female children (12-17 years)	10,393	Any	.638	.522	.781	<.001	-	-	-	-	-
		JS	.551	.437	.693	<.001	-	-	-	-	-
		IMD	.859	.655	1.127	.273	-	-	-	-	-
SOH19: Sex victims were female adults (18-64)	10,404	Any	.976	.813	1.172	.799	-	.686	.015	-	-
		JS	.897	.734	1.097	.289	-	.586	.002	-	-
		IMD	1.245	.977	1.585	.076	-	-	-	-	-
SOH20: Sex victims were female elderly (65+)	10,413	Any	1.784	.648	4.913	.263	-	-	-	-	-
		JS	2.320	.843	6.389	.103	-	-	-	-	-
		IMD	2.916	.939	9.057	.064	-	-	-	-	-
SOH21: Sex victims were male children (under 12)	10,411	Any	.631	.439	.907	.013	-	-	-	-	-
		JS	.412	.259	.656	<.001	-	-	-	-	-
		IMD	1.223	.801	1.868	.351	-	-	-	-	-
SOH22: Sex victims were male children (12-17 years)	10,411	Any	.395	.234	.668	<.001	-	-	-	-	-
		JS	.177	.078	.401	<.001	-	.693	.570	-	-
		IMD	1.010	.579	1.763	.971	-	-	-	-	-
SOH23: Sex victims were male adults (18-64)	10,417	Any	.706	.266	1.875	.485	-	-	-	-	-
		JS	.918	.346	2.435	.863	-	-	-	-	-
		IMD	2.085	.785	5.541	.141	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
SOH24: Sex victims were male elderly (65+)	10,417	Any	2.962	.185	47.368	.443	-	-	-	-	-
		JS	3.846	.240	61.520	.341	-	-	-	-	-
		IMD	8.718	.545	139.48	.126	-	-	-	-	-
SOH25: Current sex offence resulted in death or serious harm	10,396	Any	.591	.502	.697	<.001	-	-	-	1.976	.108
		JS	.433	.355	.528	<.001	-	-	-	1.471	.407
		IMD	.972	.789	1.198	.788	-	-	-	5.715	<.001
High profile flag	11,091	Any	2.409	2.010	2.888	<.001	-	-	-	-	-
		JS	2.261	1.873	2.730	<.001	-	-	-	-	-
		IMD	2.246	1.782	2.831	<.001	-	-	-	4.846	<.001
Publication ban flag	11,091	Any	.368	.197	.689	.002	-	-	-	-	-
		JS	.245	.107	.560	.001	-	-	-	-	-
		IMD	.563	.246	1.286	.173	-	-	-	-	-
Sex offence involving child flag	11,091	Any	.423	.343	.521	<.001	-	-	-	-	-
		JS	.260	.197	.343	<.001	-	-	-	-	-
		IMD	.787	.610	1.017	.068	-	-	-	3.320	.055
Terrorism offence flag	11,091	Any	6.271	.569	69.174	.134	-	-	-	-	-
		JS	8.027	.730	88.308	.089	-	-	-	-	-
		IMD	<.001	<.001	>999.9	.957	-	-	-	-	-
Need: communication/physical disability or sensitivity impairing daily living activities	11,091	Any	.937	.567	1.546	.798	-	-	-	3.206	.042
		JS	1.055	.627	1.776	.840	-	-	-	3.524	.028
		IMD	.936	.451	1.941	.859	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
Need: Diagnosed or suspected learning disability	11,091	Any	1.659	1.404	1.961	<.001	-	-	-	3.296	.001
		JS	1.567	1.312	1.872	<.001	-	-	-	3.630	<.001
		IMD	1.664	1.330	2.083	<.001	-	-	-	-	-
Current opiate substitution therapy	11,091	Any	1.609	1.338	1.935	<.001	-	-	-	-	-
		JS	1.579	1.300	1.919	<.001	-	-	-	-	-
		IMD	1.353	1.041	1.758	.024	-	-	-	-	-
Protective custody flag	11,091	Any	1.719	1.100	2.688	.018	-	-	-	-	-
		JS	1.693	1.059	2.705	.028	-	-	-	-	-
		IMD	2.329	1.364	3.978	.002	-	-	-	-	-
SIO flag: Computer threat	11,091	Any	1.046	.415	2.637	.924	-	-	-	-	-
		JS	.808	.276	2.365	.697	-	-	-	-	-
		IMD	1.320	.393	4.432	.653	-	-	-	-	-
SIO flag: Intoxicant supplier	11,091	Any	2.466	1.459	4.168	<.001	-	-	-	-	-
		JS	2.554	1.496	4.363	<.001	-	-	-	-	-
		IMD	2.220	1.147	4.299	.018	-	-	-	-	-
SIO flag: leader/organizer/inciter	11,091	Any	1.569	.392	6.277	.524	-	-	-	-	-
		JS	2.027	.507	8.106	.318	-	-	-	-	-
		IMD	<.001	<.001	>999.9	.967	-	-	-	-	-
SIO flag: Predatory (exploits staff or inmates)	11,091	Any	1.794	.525	6.133	.351	-	-	-	-	-
		JS	1.516	.402	5.719	.539	-	-	-	-	-
		IMD	5.291	1.546	18.103	.008	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
SIO: Restraint equipment required	11,091	Any	>999.9	<.001	>999.9	.934	-	-	-	-	-
		JS	2.026	.184	22.327	.564	-	-	-	-	-
		IMD	18.477	1.675	203.85	.017	-	-	-	-	-
SIO: Security literate/experience	11,091	Any	.627	.137	2.864	.547	-	-	-	-	-
		JS	.367	.047	2.843	.337	-	-	-	-	-
		IMD	.839	.108	6.505	.867	-	-	-	-	-
SIO: Security concerns	11,091	Any	4.050	2.396	6.846	<.001	-	-	-	21.100	<.001
		JS	3.416	2.024	5.765	<.001	-	-	-	23.240	<.001
		IMD	2.750	1.477	5.121	.001	-	-	-	-	-
SIO: Has been or is incarcerated in SHU	11,091	Any	10.808	4.655	25.096	<.001	-	-	-	-	-
		JS	13.983	6.018	32.491	<.001	-	-	-	-	-
		IMD	5.130	2.452	10.732	<.001	-	-	-	-	-
SIO: Use of force consideration	11,091	Any	3.130	1.009	9.714	.048	-	-	-	-	-
		JS	4.047	1.304	12.561	.016	-	-	-	-	-
		IMD	3.085	.834	11.411	.091	-	-	-	-	-
SIO: Vulnerable offender	11,091	Any	1.426	.495	4.108	.511	-	-	-	-	-
		JS	1.842	.639	5.304	.258	-	-	-	-	-
		IMD	1.320	.300	5.814	.714	-	-	-	-	-
SIO: Weapons or explosives capability	11,091	Any	5.497	1.608	18.792	.007	-	-	-	-	-
		JS	7.064	2.067	24.137	.002	-	-	-	-	-
		IMD	.925	.119	7.221	.941	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
Staff safety threat	11,091	Any	4.596	3.584	5.893	<.001	-	-	-	-	-
		JS	4.802	3.753	6.144	<.001	-	-	-	9.231	-
		IMD	2.754	2.047	3.704	<.001	-	-	-	-	-
History of suicide attempts or self-injury	11,091	Any	1.907	1.660	2.189	<.001	-	-	-	-	-
		JS	1.616	1.393	1.875	<.001	-	-	-	2.323	<.001
		IMD	2.354	1.977	2.083	<.001	-	-	-	-	-
Criminal organization offence	11,091	Any	.520	.306	.884	.016	-	-	-	-	-
		JS	.574	.327	1.007	.053	-	-	-	-	-
		IMD	.252	.080	.795	.019	-	-	-	-	-
Interested in Traditional Healing Path	11,091	Any	1.313	1.027	1.678	.030	-	1.020	.895	4.141	.003
		JS	1.354	1.045	1.754	.022	-	1.093	.566	4.556	.002
		IMD	1.189	.836	1.692	.336	-	.879	.530	-	-
LTSO flag	11,091	Any	1.556	1.058	2.290	.025	-	2.689	.004	-	-
		JS	1.320	.866	2.013	.196	-	-	-	-	-
		IMD	1.563	.931	2.622	.091	-	-	-	-	-
Escape risk/history	11,091	Any	2.882	2.266	3.665	<.001	-	-	-	-	-
		JS	2.722	2.128	3.481	<.001	-	-	-	6.287	<.001
		IMD	2.147	1.573	2.929	<.001	-	-	-	-	-
Forcible confinement with sex assault	11,091	Any	2.273	1.113	4.646	.024	-	-	-	-	-
		JS	1.407	.628	3.149	.406	-	-	-	-	-
		IMD	2.705	1.163	6.292	.021	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
Forcible confinement	11,091	Any	3.936	1.840	8.418	<.001	-	-	-	-	-
		JS	4.371	2.052	9.313	<.001	-	-	-	-	-
		IMD	2.648	1.067	6.574	.036	-	-	-	-	-
Hostage taking	11091	Any	10.969	2.280	52.768	.003	-	-	-	-	-
		JS	14.171	2.943	68.246	<.001	-	-	-	-	-
		IMD	1.154	.144	9.236	.892	-	-	-	-	-
Hostage taking with sex assault	11,091	Any	4.707	.786	28.183	.090	-	-	-	-	-
		JS	2.705	.452	16.189	.276	-	-	-	-	-
		IMD	13.875	2.316	83.117	.004	-	-	-	-	-
Interest in S.81 transfer	11,091	Any	1.386	1.167	1.646	<.001	-	.970	.770	-	-
		JS	1.264	1.050	1.522	.014		.928	.504	-	-
		IMD	1.708	1.367	2.134	<.001		1.166	.261	-	-
Interest in S.84 process	11,091	Any	1.343	1.147	1.574	<.001	-	.925	.426	-	-
		JS	1.266	1.068	1.501	.007		.912	.382	-	-
		IMD	1.553	1.259	1.917	<.001		1.033	.803	-	-
Outstanding charges	11,091	Any	2.220	2.028	2.429	<.001	-	-	-	-	-
		JS	2.159	1.961	2.377	<.001	-	-	-	-	-
		IMD	2.163	1.906	2.456	<.001	-	-	-	-	-
Judge extended parole eligibility	11,091	Any	1.757	1.281	2.410	<.001	-	-	-	12.868	.002
		JS	1.638	1.172	2.289	.004	-	-	-	14.142	.002
		IMD	1.594	1.038	2.448	.033	-	-	-	4.159	.190

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
Sentence/conviction under appeal	11,091	Any	1.279	1.073	1.525	.006	-	-	-	-	-
		JS	1.218	1.008	1.472	.041	-	-	-	-	-
		IMD	1.261	.986	1.614	.065	-	-	-	-	-
Family violence flag	11,091	Any	1.608	1.454	1.778	<.001	-	1.100	.325	-	-
		JS	1.527	1.372	1.700	<.001	-	1.022	.829	-	-
		IMD	1.590	1.382	1.829	<.001	-	1.141	.304	-	-
Age at admission	11,110	Any	.951	.947	.956	<.001	✓	-	-	-	-
		JS	.946	.941	.951	<.001	✓	-	-	-	-
		IMD	.962	.956	.968	<.001	✓	-	-	-	-
Sentence length (years)	10,706	Any	1.195	1.169	1.222	<.001	X	1.260	<.001	-	-
		JS	1.172	1.146	1.198	<.001	X	1.228	<.001	-	-
		IMD	1.148	1.118	1.180	<.001	X	-	-	-	-
Translator required	10,532	Any	.391	.224	.683	.001	-	-	-	-	-
		JS	.310	.157	.611	<.001	-	-	-	-	-
		IMD	.623	.304	1.278	.196	-	-	-	-	-
Deportable	3,348	Any	.969	.764	1.227	.792	-	-	-	-	-
		JS	.981	.761	1.264	.882	-	-	-	-	-
		IMD	.840	.585	1.206	.345	-	-	-	-	-
Lifer	11,110	Any	3.563	2.916	4.352	<.001	-	-	-	-	-
		JS	3.165	2.583	3.877	<.001	-	-	-	-	-
		IMD	2.974	2.340	3.780	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
Francophone	10,517	Any	1.084	.968	1.213	.161	-	-	-	-	-
		JS	1.182	1.050	1.331	.006	-	2.109	.003	-	-
		IMD	.799	.671	.951	.012	-	1.474	.131	-	-
Single (from marital status)	10,469	Any	.958	.874	1.050	.356	-	-	-	1.291	.078
		JS	.849	.770	.936	.001	-	-	-	1.197	.226
		IMD	1.234	1.079	1.412	.002	-	-	-	-	-
Previous federal incarceration	11,109	Any	1.924	1.755	2.109	<.001	-	1.512	<.001	2.972	<.001
		JS	1.870	1.696	2.063	<.001	-	1.539	<.001	3.124	<.001
		IMD	1.897	1.668	2.157	<.001	-	-	-	-	-
Any grievances	11,110	Any	2.710	2.424	3.030	<.001	-	-	-	-	-
		JS	2.507	2.231	2.818	<.001	-	-	-	3.786	<.001
		IMD	2.627	2.271	3.039	<.001	-	-	-	-	-
2+ grievances	11,110	Any	3.114	2.713	3.575	<.001	-	-	-	-	-
		JS	2.709	2.349	3.125	<.001	-	-	-	4.970	<.001
		IMD	3.007	2.536	3.566	<.001	-	-	-	-	-
5+ grievances	11,110	Any	3.656	3.065	4.361	<.001	-	-	-	-	-
		JS	3.233	2.703	3.867	<.001	-	-	-	6.652	<.001
		IMD	3.276	2.658	4.036	<.001	-	-	-	-	-
Gang member (from affiliation table)	11,110	Any	2.771	2.438	3.150	<.001	-	3.099	<.001	-	-
		JS	2.843	2.492	3.244	<.001	-	-	-	-	-
		IMD	2.222	1.876	2.631	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
Any gang: member	11,110	Any	2.886	2.445	3.406	<.001	-	-	-	-	-
		JS	2.848	2.404	3.375	<.001	-	-	-	-	-
		IMD	2.050	1.646	2.553	<.001	-	-	-	-	-
Any gang: associate	11,110	Any	2.186	1.687	2.833	<.001	-	-	-	-	-
		JS	2.248	1.722	2.936	<.001	-	-	-	-	-
		IMD	1.620	1.131	2.320	.009	-	-	-	-	-
Any gang: associate or member	11,110	Any	2.703	2.340	3.121	<.001	-	-	-	-	-
		JS	2.719	2.345	3.154	<.001	-	-	-	-	-
		IMD	1.960	1.615	2.380	<.001	-	-	-	-	-
Indigenous gang	11,110	Any	3.390	2.562	4.485	<.001	✓	2.543	<.001	7.201	<.001
		JS	2.976	2.240	3.955	<.001	-	-	-	7.952	<.001
		IMD	2.196	1.534	3.144	<.001	-	-	-	-	-
Asian gang	11,110	Any	1.531	.870	2.693	.140	-	-	-	-	-
		JS	1.664	.929	2.984	.087	-	-	-	-	-
		IMD	1.815	.886	3.717	.103	-	-	-	-	-
Motorcycle gang	11,110	Any	1.377	.968	1.960	.075	-	-	-	-	-
		JS	1.560	1.085	2.242	.016	-	-	-	-	-
		IMD	1.122	.665	1.892	.667	-	-	-	-	-
Prison gang	11,110	Any	4.744	2.609	8.627	<.001	-	-	-	-	-
		JS	3.894	2.166	6.999	<.001	-	-	-	-	-
		IMD	3.012	1.522	5.961	.002	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
Street gang	11,110	Any	2.764	2.263	3.376	<.001	-	-	-	-	-
		JS	2.866	2.337	3.514	<.001	-	-	-	-	-
		IMD	1.983	1.520	2.585	<.001	-	-	-	-	-
Organized crime	11,110	Any	.712	.452	1.123	.144	-	-	-	-	-
		JS	.775	.479	1.254	.299	-	-	-	-	-
		IMD	.306	.113	.830	.020	-	-	-	-	-
Historical: Any gang: member	11,110	Any	6.252	4.501	8.685	<.001	-	-	-	-	-
		JS	5.723	4.171	7.852	<.001	-	-	-	-	-
		IMD	5.289	3.805	7.352	<.001	-	-	-	-	-
Historical: Any gang: associate	11,110	Any	6.055	3.009	12.184	<.001	-	-	-	-	-
		JS	4.831	2.480	9.410	<.001	-	-	-	-	-
		IMD	7.017	3.582	13.746	<.001	-	-	-	-	-
Historical: Any gang: associate or member	11,110	Any	6.120	4.515	8.296	<.001	-	-	-	-	-
		JS	5.503	4.105	7.377	<.001	-	3.694	<.001	-	-
		IMD	5.301	3.901	7.205	<.001	-	-	-	-	-
Historical: Indigenous gang	11,110	Any	5.921	3.732	9.393	<.001	-	-	-	-	-
		JS	4.533	2.916	7.048	<.001	-	-	-	-	-
		IMD	5.371	3.390	8.510	<.001	-	-	-	-	-
Historical: Asian gang	11,110	Any	3.130	.441	22.227	.254	-	-	-	-	-
		JS	4.044	.569	28.722	.162	-	-	-	-	-
		IMD	3.084	.321	29.663	.330	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
Historical: Motorcycle gang	11,110	Any	4.402	1.396	13.880	.011	-	-	-	-	-
		JS	5.668	1.797	17.876	.003	-	-	-	-	-
		IMD	4.634	1.393	15.413	.012	-	-	-	-	-
Historical: Prison gang	11,110	Any	47.265	6.248	357.57	<.001	-	-	-	-	-
		JS	61.018	8.056	462.16	<.001	-	-	-	-	-
		IMD	15.533	5.634	42.822	<.001	-	-	-	-	-
Historical: Street gang	11,110	Any	5.451	3.492	8.509	<.001	-	-	-	-	-
		JS	5.222	3.386	8.054	<.001	-	-	-	-	-
		IMD	4.220	2.646	6.731	<.001	-	-	-	-	-
Historical: Organized crime	11,110	Any	<.001	<.001	>999.9	.962	-	-	-	-	-
		JS	<.001	<.001	>999.9	.966	-	-	-	-	-
		IMD	<.001	<.001	>999.9	.964	-	-	-	-	-
IA: Alcohol drug use score	11,059	Any	1.130	1.111	1.151	<.001	X	1.065	.007	1.224	<.001
		JS	1.127	1.106	1.149	<.001	X	-	-	1.233	<.001
		IMD	1.119	1.090	1.148	<.001	X	1.028	.377	-	-
IA: Escape history score	11,059	Any	1.061	1.049	1.072	<.001	-	-	-	-	-
		JS	1.065	1.053	1.077	<.001	-	-	-	-	-
		IMD	1.039	1.024	1.053	<.001	-	-	-	-	-
IA: incident score	11,059	Any	1.033	1.031	1.035	<.001	X	1.027	<.001	1.039	<.001
		JS	1.034	1.032	1.036	<.001	X	1.027	<.001	1.040	<.001
		IMD	1.023	1.020	1.025	<.001	X	1.018	<.001	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
IA: Incident severity remand score	11,059	Any	1.350	1.318	1.382	<.001	-	-	-	1.509	<.001
		JS	1.366	1.333	1.400	<.001	-	-	-	1.532	<.001
		IMD	1.249	1.212	1.287	<.001	-	-	-	-	-
IA: Incident severity score	11,059	Any	2.077	1.962	2.200	<.001	-	1.712	<.001	-	-
		JS	2.102	1.983	2.229	<.001	-	1.744	<.001	2.593	<.001
		IMD	1.717	1.595	1.847	<.001	-	1.422	<.001	-	-
IA: Institutional adjustment score	11,059	Any	1.030	1.029	1.032	<.001	X	1.026	<.001	-	-
		JS	1.031	1.029	1.033	<.001	X	1.026	<.001	-	-
		IMD	1.021	1.019	1.023	<.001	X	1.017	<.001	-	-
IA: Involve in incident score	11,059	Any	2.045	1.951	2.144	<.001	-	1.860	<.001	-	-
		JS	2.156	2.046	2.272	<.001	-	1.913	<.001	-	-
		IMD	1.684	1.575	1.800	<.001	-	-	-	-	-
IA: Involve in last 5 years	11,059	Any	3.133	2.877	3.412	<.001	-	2.586	<.001	4.720	<.001
		JS	3.190	2.927	3.477	<.001	-	2.611	<.001	5.287	<.001
		IMD	2.247	2.031	2.485	<.001	-	1.756	<.001	-	-
SR: Number of MS releases	11,059	Any	1.083	1.070	1.096	<.001	X	-	-	-	-
		JS	1.073	1.060	1.086	<.001	X	1.048	<.001	-	-
		IMD	1.064	1.049	1.079	<.001	X	-	-	-	-
SR: Number of parole releases	11,059	Any	1.079	1.040	1.120	<.001	X	-	-	1.184	<.001
		JS	1.076	1.035	1.119	<.001	V	-	-	1.197	<.001
		IMD	1.024	.969	1.081	.401	X	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
SR: Number of prior convictions score	11,059	Any	1.282	1.249	1.315	<.001	X	1.143	<.001	-	-
		JS	1.281	1.246	1.317	<.001	X	1.123	<.001	-	-
		IMD	1.238	1.193	1.284	<.001	X	1.107	.009	-	-
SR: Offence severity score	11,059	Any	1.323	1.219	1.436	<.001	X	-	-	1.916	<.001
		JS	1.320	1.209	1.441	<.001	X	-	-	1.858	<.001
		IMD	1.191	1.059	1.340	.004	X	-	-	1.833	.009
SR: Outstanding charge score	11,059	Any	1.340	1.271	1.413	<.001	-	1.194	.001	-	-
		JS	1.333	1.262	1.408	<.001	-	1.189	.002	-	-
		IMD	1.305	1.218	1.398	<.001	-	1.139	.062	-	-
CRS: Security risk score	11,059	Any	1.025	1.023	1.027	<.001	X	-	-	-	-
		JS	1.023	1.022	1.025	<.001	X	-	-	-	-
		IMD	1.018	1.017	1.020	<.001	X	-	-	-	-
SR: Sentence length score	11,059	Any	1.561	1.474	1.652	<.001	✓	1.761	<.001	-	-
		JS	1.463	1.379	1.552	<.001	✓	-	-	-	-
		IMD	1.505	1.402	1.615	<.001	✓	-	-	-	-
IA: Street stability adjustment score	11,059	Any	2.311	2.151	2.484	<.001	X	1.877	<.001	-	-
		JS	2.362	2.185	2.554	<.001	X	1.906	<.001	-	-
		IMD	1.975	1.783	2.187	<.001	X	-	-	-	-
IA: Street stability risk score	11,059	Any	2.220	2.069	2.381	<.001	X	1.859	<.001	-	-
		JS	2.258	2.094	2.436	<.001	X	1.873	<.001	-	-
		IMD	1.901	1.722	2.099	<.001	X	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
Past sentence – Number of incidents involving death	11,110	Any	1.828	1.293	2.584	<.001	-	-	-	-	-
		JS	1.712	1.222	2.399	.002	-	-	-	6.863	.008
		IMD	1.497	1.059	2.116	.022	-	-	-	4.341	.008
Past sentence – Any incident involving death	11,110	Any	3.589	2.192	5.875	<.001	-	-	-	-	-
		JS	3.601	2.199	5.896	<.001	-	-	-	-	-
		IMD	2.372	1.286	4.375	.006	-	-	-	12.710	.004
Past sentence – Number of incidents involving assault	11,110	Any	1.371	1.317	1.428	<.001	-	1.202	<.001	1.687	<.001
		JS	1.325	1.275	1.376	<.001	-	1.175	<.001	1.708	<.001
		IMD	1.222	1.180	1.266	<.001	-	1.139	<.001	-	-
Past sentence – Any incident involving assault	11,110	Any	3.513	3.102	3.979	<.001	-	2.731	<.001	-	-
		JS	3.174	2.793	3.607	<.001	-	2.417	<.001	-	-
		IMD	3.244	2.780	3.787	<.001	-	-	-	-	-
Past sentence – Number incidents involving escape or ual	11,110	Any	1.601	1.473	1.741	<.001	-	1.318	<.001	2.499	<.001
		JS	1.452	1.339	1.575	<.001	-	1.264	<.001	2.532	<.001
		IMD	1.518	1.390	1.658	<.001	-	1.201	<.001	-	-
Past sentence – any escape/ual incident	11,110	Any	2.791	2.376	3.278	<.001	-	1.933	<.001	6.238	<.001
		JS	2.465	2.086	2.913	<.001	-	1.808	.003	6.281	<.001
		IMD	2.839	2.331	3.458	<.001	-	1.811	.002	5.919	<.001
Past sentence – Number contraband incidents	11,110	Any	1.198	1.165	1.232	<.001	-	-	-	-	-
		JS	1.168	1.137	1.199	<.001	-	-	-	-	-
		IMD	1.122	1.092	1.153	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
Past sentence –any contraband incident	11,110	Any	2.706	2.400	3.051	<.001	-	-	-	-	-
		JS	2.560	2.259	2.901	<.001	-	-	-	-	-
		IMD	2.446	2.092	2.861	<.001	-	-	-	-	-
Past sentence – Number behaviour incidents	11,110	Any	1.117	1.096	1.139	<.001	-	-	-	-	-
		JS	1.104	1.084	1.123	<.001	-	1.064	<.001	-	-
		IMD	1.059	1.043	1.075	<.001	-	-	-	-	-
Past sentence – any behaviour incident	11,110	Any	2.993	2.651	3.379	<.001	-	2.040	<.001	-	-
		JS	2.886	2.546	3.272	<.001	-	2.046	<.001	-	-
		IMD	2.604	2.227	3.046	<.001	-	1.949	<.001	-	-
Past sentence – Number self-injury incidents	11,110	Any	1.448	1.289	1.626	<.001	-	-	-	-	-
		JS	1.227	1.135	1.327	<.001	-	-	-	-	-
		IMD	1.293	1.193	1.401	<.001	-	-	-	-	-
Past sentence – Any self-injury incident	11,110	Any	4.005	3.080	5.207	<.001	-	-	-	10.765	<.001
		JS	3.276	2.517	4.264	<.001	-	2.051	.005	7.324	<.001
		IMD	4.200	3.150	5.600	<.001	-	-	-	16.849	<.001
Past sentence – Number property incidents	11,110	Any	1.402	1.269	1.549	<.001	-	-	-	1.020	.568
		JS	1.368	1.244	1.504	<.001	-	-	-	1.022	.549
		IMD	1.261	1.156	1.375	<.001	-	1.614	<.001	1.039	.337
Past sentence – any property incident	11,110	Any	3.313	2.687	4.086	<.001	-	-	-	-	-
		JS	3.139	2.538	3.882	<.001	-	-	-	-	-
		IMD	3.547	2.787	4.514	<.001	-	-	-	12.736	<.001

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
Past sentence – Number misc. incidents	11,110	Any	1.104	1.085	1.124	<.001	-	-	-	-	-
		JS	1.077	1.060	1.095	<.001	-	-	-	-	-
		IMD	1.086	1.068	1.105	<.001	-	-	-	1.252	<.001
Past sentence –any misc incident	11,110	Any	2.439	2.181	2.727	<.001	-	1.926	<.001	-	-
		JS	2.245	1.997	2.525	<.001	-	1.774	<.001	-	-
		IMD	2.354	2.031	2.728	<.001	-	-	-	-	-
Past sentence – Number violent incident	11,110	Any	1.359	1.306	1.414	<.001	-	1.197	<.001	1.686	<.001
		JS	1.314	1.265	1.364	<.001	-	1.172	<.001	1.708	<.001
		IMD	1.214	1.173	1.257	<.001	-	1.131	<.001	-	-
Past sentence – any violent incident	11,110	Any	3.470	3.066	3.927	<.001	-	2.714	<.001	-	-
		JS	3.150	2.773	3.577	<.001	-	2.419	<.001	-	-
		IMD	3.202	2.745	3.736	<.001	-	-	-	-	-
Past sentence – total incidents	11,110	Any	1.050	1.044	1.057	<.001	-	1.038	<.001	-	-
		JS	1.042	1.036	1.048	<.001	-	1.028	<.001	-	-
		IMD	1.034	1.028	1.040	<.001	-	1.023	<.001	-	-
Past sentence – any incident	11,110	Any	2.591	2.345	2.863	<.001	-	1.985	<.001	-	-
		JS	2.453	2.209	2.725	<.001	-	1.972	<.001	-	-
		IMD	2.428	2.122	2.779	<.001	-	-	-	-	-
Past sentence – Number admissions to IMD seg	11,110	Any	1.380	1.322	1.441	<.001	-	1.525	<.001	-	-
		JS	1.235	1.191	1.280	<.001	-	-	-	-	-
		IMD	1.316	1.267	1.367	<.001	-	1.463	<.001	1.777	<.001

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	p	Women OR	p
Past sentence – Number admissions JS seg	11,110	Any	1.326	1.285	1.368	<.001	-	-	-	-	-
		JS	1.279	1.243	1.316	<.001	-	-	-	-	-
		IMD	1.198	1.167	1.229	<.001	-	-	-	-	-
Past sentence – Number admissions interfere seg	11,110	Any	3.471	2.739	4.400	<.001	-	-	-	-	-
		JS	3.350	2.657	4.223	<.001	-	-	-	-	-
		IMD	2.292	1.792	2.931	<.001	-	-	-	-	-
Past sentence – Number admissions seg other reasons	11,110	Any	1.495	1.268	1.763	<.001	-	-	-	-	-
		JS	1.337	1.141	1.566	<.001	-	-	-	-	-
		IMD	1.579	1.323	1.884	<.001	-	-	-	-	-
Past sentence – Number admissions disciplinary seg	11,110	Any	1.356	1.246	1.474	<.001	-	-	-	-	-
		JS	1.321	1.218	1.433	<.001	-	-	-	-	-
		IMD	1.125	1.040	1.217	.003	-	-	-	2.367	.008
Past sentence – Days in IMD seg	11,110	Any	1.004	1.003	1.005	<.001	-	-	-	1.055	<.001
		JS	1.003	1.002	1.003	<.001	-	-	-	1.025	.004
		IMD	1.003	1.003	1.004	<.001	-	-	-	1.025	<.001
Past sentence – Days in JS seg	11,110	Any	1.009	1.008	1.010	<.001	-	1.005	<.001	1.023	<.001
		JS	1.007	1.006	1.008	<.001	-	1.004	<.001	1.023	<.001
		IMD	1.005	1.004	1.006	<.001	-	1.003	<.001	1.013	<.001
Past sentence – Days in interfere seg	11,110	Any	1.023	1.016	1.030	<.001	-	-	-	-	-
		JS	1.020	1.014	1.026	<.001	-	-	-	-	-
		IMD	1.011	1.006	1.016	<.001	-	1.005	.083	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
Past sentence – Days in other reasons seg	11,110	Any	1.002	1.000	1.004	.071	-	-	-	-	-
		JS	1.002	1.000	1.004	.105	-	-	-	-	-
		IMD	1.001	.999	1.004	.243	-	-	-	1.360	.024
Past sentence – Days in disciplinary seg	11,110	Any	1.013	1.008	1.018	<.001	-	-	-	1.173	.011
		JS	1.009	1.005	1.014	<.001	-	-	-	1.184	.008
		IMD	1.008	1.004	1.013	<.001	-	-	-	1.270	<.001
Past sentence – Any IMD seg	11,110	Any	4.007	3.504	4.581	<.001	-	-	-	-	-
		JS	3.314	2.890	3.799	<.001	-	-	-	-	-
		IMD	3.955	3.373	4.638	<.001	-	-	-	11.019	<.001
Past sentence – Any JS seg	11,110	Any	3.768	3.352	4.234	<.001	-	-	-	-	-
		JS	3.435	3.046	3.873	<.001	-	2.690	<.001	-	-
		IMD	3.275	2.827	3.793	<.001	-	-	-	-	-
Past sentence – Any interfere seg	11,110	Any	4.428	3.398	5.770	<.001	-	-	-	-	-
		JS	4.481	3.447	5.826	<.001	-	-	-	-	-
		IMD	2.916	2.136	3.981	<.001	-	-	-	-	-
Past sentence – Any other seg	11,110	Any	2.284	1.737	3.005	<.001	-	-	-	-	-
		JS	2.011	1.508	2.682	<.001	-	-	-	-	-
		IMD	2.567	1.842	3.578	<.001	-	-	-	-	-
Past sentence – any disciplinary seg	11,110	Any	3.419	2.804	4.169	<.001	-	-	-	-	-
		JS	3.360	2.750	4.106	<.001	-	-	-	-	-
		IMD	2.854	2.245	3.628	<.001	-	-	-	11.035	<.001

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous		Women	
								OR	p	OR	p
Past sentence – Number admissions to JS or IMD seg	11,110	Any	1.212	1.188	1.237	<.001	-	-	-	-	-
		JS	1.164	1.143	1.185	<.001	-	-	-	-	-
		IMD	1.149	1.129	1.169	<.001	-	-	-	-	-
Past sentence – Any admission to JS or IMD seg	11,110	Any	3.566	3.192	3.983	<.001	-	-	-	5.226	<.001
		JS	3.222	2.873	3.613	<.001	-	-	-	5.051	<.001
		IMD	3.228	2.802	3.719	<.001	-	-	-	-	-
Past sentence – Days in JS or IMD seg	11,110	Any	1.004	1.003	1.004	<.001	-	-	-	1.022	<.001
		JS	1.003	1.002	1.003	<.001	-	-	-	1.018	<.001
		IMD	1.003	1.002	1.003	<.001	-	-	-	1.013	<.001
Past sentence – Number admissions any type of seg	11,110	Any	1.173	1.153	1.193	<.001	-	-	-	-	-
		JS	1.137	1.120	1.155	<.001	-	-	-	-	-
		IMD	1.121	1.105	1.138	<.001	-	-	-	1.194	<.001
Past sentence – Any admissions to any type of seg	11,110	Any	3.440	3.087	3.834	<.001	-	-	-	4.952	<.001
		JS	3.129	2.796	3.502	<.001	-	2.480	<.001	4.816	<.001
		IMD	3.157	2.745	3.630	<.001	-	-	-	-	-
Past sentence – days in any type of seg	11,110	Any	1.003	1.003	1.004	<.001	-	-	-	1.021	<.001
		JS	1.003	1.002	1.003	<.001	-	-	-	1.018	<.001
		IMD	1.003	1.002	1.003	<.001	-	-	-	1.012	<.001
Past sentence – Number admissions any type of admin seg	11,110	Any	1.199	1.176	1.222	<.001	-	-	-	-	-
		JS	1.155	1.135	1.175	<.001	-	-	-	-	-
		IMD	1.141	1.122	1.160	<.001	-	-	-	-	-

*Table continues on next page.

Predictor Variable	N	Seg Type	OR	95% CI		p	HL violation	Indigenous OR	Indigenous p	Women OR	Women p
Past sentence – Any admissions to admin seg	11,110	Any	3.462	3.104	3.861	<.001	-	2.799	<.001	-	-
		JS	3.136	2.801	3.512	<.001	-	2.468	<.001	4.770	<.001
		IMD	3.198	2.780	3.679	<.001	-	-	-	-	-
Past sentence – Days in any type of admin seg	11,110	Any	1.004	1.003	1.004	<.001	-	-	-	1.022	<.001
		JS	1.003	1.002	1.003	<.001	-	-	-	1.018	<.001
		IMD	1.003	1.002	1.003	<.001	-	-	-	1.012	<.001

Online Supplement B: Summary of Component-by-Component Item Reduction

General principles guiding reduction of items within a component are described in text.

The format of this appendix is to start by presenting the initial component derived from the PCA analysis. For each item, the overall predictive accuracy and interactions with gender and Indigenous ancestry are presented (from Online Supplement A). Subsequently, some informal notes are presented to describe how items were combined and reduced (other than by the backwards elimination model selection). Next, a new table is presented with the reduced version of that component, noting the predictive accuracy (odds ratios and *c* values) only for items retained in that component either for the overall sample, or for a gender/Indigenous ancestry subgroup.

Abbreviations in this Supplement are the same as those in Online Supplement A.

In item reduction analyses, Harrell's *c* was often reported (as opposed to AUCs) alongside odds ratios because it is automatically included in logistic regression output in SAS. Later stages of analyses (e.g., results of proposed scales) include AUCs, which require a separate SAS macro to run. Notably, results of AUCs and Harrell's *c* are virtually identical when fixed follow-ups are used. Consequently, the two effect size statistics will be interpreted interchangeably (with values of .56, .64, and .71 considered small, moderate, and large, following Rice & Harris, 2005).

Table B1

Initial Component 1: Prior federal sentence and institutional behaviour – 22 items (before data extraction error identified – see Table B2 for fixed data)

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
ACR10: Prior sanctions: federal terms	10,417	.569	1.959	<.001			2.786	<.001
ACR12: Segregation for disciplinary infractions	9,969	.629	3.429	<.001			4.536	<.001
ACR14: Reclassified to higher level of security	10,212	.573	2.843	<.001			5.200	<.001
ACR15: Failures on conditional release	10,346	.577	1.891	<.001	1.541	<.001	2.428	<.001
Previous federal incarceration	11,109	.570	1.924	<.001	1.512	<.001	2.972	<.001
Any grievances	11,110	.569	2.710	<.001				
2+ grievances	11,110	.551	3.114	<.001				
CRS: Number of MS releases	11,059	.577	1.083	<.001				
CRS: Number of parole releases	11,059	.521	1.079	<.001			1.184	<.001
Past federal sentence: Any incidents as a victim	11,110	.535	2.766	<.001				
Past federal sentence: Any violent incidents as a victim	11,110	.528	3.165	<.001				
Past federal sentence: Any violent incidents as perpetrator	11,110	.563	3.717	<.001	2.822	<.001		
Past federal sentence: Any requests for protective custody	11,110	.519	2.628	<.001				
Past federal sentence: Any incidents for under the influence	11,110	.517	2.383	<.001	1.081	.745		
Past federal sentence: Any incidents for drug/alcohol or paraphernalia contraband	11,110	.561	2.662	<.001				
Past federal sentence: Any incidents for weapons contraband	11,110	.532	4.569	<.001				
Past federal sentence: Any incidents for other contraband	11,110	.539	2.224	<.001				
Past fed sentence: Any admissions to admin seg for IMD	11,110	.593	11.764	<.001				
Past federal sentence: Any admissions to admin seg for JS	11,110	.646	9.209	<.001				
Past federal sentence: Number of days in IMD seg	11,110	.590	1.014	<.001	1.011	<.001		
Past federal sentence: # of days in jeopardize security seg	11,110	.646	1.020	<.001			1.045	<.001
Past federal sentence: Any JS/IMD segregation admissions	11,110	.664	9.278	<.001				

This is the original component with an error in the data pull. Two variables (any admission for JS and any admission for IMD) did not load on this component, but I retained them for reasons of face validity. After the data error was identified, I re-pulled the variables on previous incidents and segregation placements in prior federal sentence – for reasons of face validity, I am keeping them on the same component. The new Component 1 is reproduced below

Table B2

Initial Component 1: Prior federal sentence and institutional behaviour – 40 items (after data extraction error fixed)

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
ACR10: Prior sanctions: federal terms	10,417	.569	2.155	<.001			2.786	<.001
ACR12: Segregation for disciplinary infractions	9,969	.629	3.781	<.001			4.536	<.001
ACR14: Reclassified to higher level of security	10,212	.573	3.190	<.001			5.200	<.001
ACR15: Failures on conditional release	10,346	.577	2.069	<.001	1.541	<.001	2.428	<.001
Previous federal incarceration	11,109	.570	2.109	<.001	1.512	<.001	2.972	<.001
Any grievances	11,110	.569	3.030	<.001				
2+ grievances	11,110	.551	3.575	<.001				
CRS: Number of MS releases	11,059	.577	1.096	<.001				
CRS: Number of parole releases	11,059	.521	1.120	<.001			1.184	<.001
Past sentence – Number of incidents involving assault	11,110	.572	1.428	<.001	1.202	<.001	1.687	<.001
Past sentence – Any incident involving assault	11,110	.570	3.979	<.001	2.731	<.001		
Past sentence – Number incidents involving escape or UAL	11,110	.534	1.741	<.001	1.318	<.001	2.499	<.001
Past sentence – any escape/UAL incident	11,110	.534	3.278	<.001	1.933	<.001	6.238	<.001
Past sentence – Number contraband incidents	11,110	.560	1.232	<.001				
Past sentence –any contraband incident	11,110	.559	3.051	<.001				
Past sentence – Number behaviour incidents	11,110	.566	1.139	<.001				
Past sentence – any behaviour incident	11,110	.564	3.379	<.001	2.040	<.001		
Past sentence – Any self-injury incident	11,110	.518	5.207	<.001			10.765	<.001
Past sentence – Number misc. incidents	11,110	.564	1.124	<.001				
Past sentence –any misc incident	11,110	.562	2.727	<.001	1.926	<.001		
Past sentence – Number violent incident	11,110	.572	1.414	<.001	1.197	<.001	1.686	<.001
Past sentence – any violent incident	11,110	.570	3.927	<.001	2.714	<.001		
Past sentence – total incidents	11,110	.590	1.057	<.001	1.038	<.001		
Past sentence – any incident	11,110	.584	2.863	<.001	1.985	<.001		
Past sentence – Number admissions to IMD seg	11,110	.569	1.441	<.001	1.525	<.001		
Past sentence – Number admissions JS seg	11,110	.587	1.368	<.001				
Past sentence – Number admissions disciplinary seg	11,110	.527	1.474	<.001				

* Table continues on next page.

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
Past sentence – Days in IMD seg	11,110	.567	1.005	<.001			1.055	<.001
Past sentence – Days in JS seg	11,110	.588	1.010	<.001	1.005	<.001	1.023	<.001
Past sentence – Days in disciplinary seg	11,110	.527	1.018	<.001			1.173	.011
Past sentence – Any IMD seg	11,110	.568	4.581	<.001				
Past sentence – Any JS seg	11,110	.585	4.234	<.001				
Past sentence – any disciplinary seg	11,110	.527	4.169	<.001				
Past sentence – Number admissions to JS or IMD seg	11,110	.594	1.237	<.001				
Past sentence – Any admission to JS or IMD seg	11,110	.591	3.983	<.001			5.226	<.001
Past sentence – Days in JS or IMD seg	11,110	.595	1.004	<.001			1.022	<.001
Past sentence – Number admissions any type of seg	11,110	.596	1.193	<.001				
Past sentence – Any admissions to any type of seg	11,110	.592	3.834	<.001			4.952	<.001
Past sentence – days in any type of seg	11,110	.596	1.004	<.001			1.021	<.001
Past sentence – Number admissions any type of admin seg	11,110	.595	1.222	<.001				
Past sentence – Any admissions to admin seg	11,110	.591	3.861	<.001	2.799	<.001		
Past sentence – Days in any type of admin seg	11,110	.595	1.004	<.001			1.022	<.001

Preliminary deletions

ACR10 item from SFA assesses prior federal sentence, as does the item directly coded from OMS ('did they have past federal sentence'). The ACR item was less predictive, less reliable (42 cases with a clear prior federal were missed), and had more missing cases. The ACR item was deleted and the general OMS item for prior sentence was retained.

Past incidents: in all cases, the number of a specific incident (with the exception of total incidents – see below) either was not incremental to the dichotomous variable, or it only trivially increased the C of the dichotomous variable alone (largest C difference was .002). Consequently, I deleted the variables counting the number of incidents.

Additionally, the dichotomous "any incident" (C = .584) had a higher C than any individual type of incident, so this was retained, and then the other incident variables were deleted. For this overall variable ("any incident"), adding the number of total incidents added incrementally and brought the C from .584 to .590, which is small, but larger than some of the other incremental effects, so I will keep both the 'any' and 'number' variables for now.

CRS Prior parole releases: The effect size was trivial, but it was retained to this stage only because the effect was significantly greater for females. However, playing around with different options to clump this variable into categories does not yield groups with meaningfully different segregation rates, and exploring logistic models, it does not add incrementally for females (the group it was included for anyway). Consequently, it was deleted.

Prior segregation placements: Combining all the reasons for segregation outperformed any individual reason alone. For the individual reasons alone, the incremental effect of days or number of admissions to segregation for that reason was either non-significant, or it only made a small increase in C. The largest effect was for prior admissions (any) for JS segregation plus days in JS segregation – combined C of .588, which is still lower than the dichotomous any admissions to any type of administrative segregation. So I deleted variables focusing on specific individual reasons for segregation.

Among the candidate variables that combine reasons for segregation, there are a few options: combining just JS and IMD segregation, any segregation (includes disciplinary) or any administrative segregation (excludes disciplinary). Predictive accuracy was all almost identical (differences at .001 of C). So I will determine which to retain based on conceptual validity and ease of coding.

I want to exclude disciplinary segregation because it's a different policy than administrative (the intended focus of this scale). Also, in the future there could be dramatic policy changes (e.g., removed of disciplinary segregation altogether) that will not affect administrative segregation, so it's useful to keep them separate. Consequently, the definition that includes disciplinary will be deleted.

Conceptually, prior JS/IMD segregation admissions is the closest match to our outcome. However, in OMS it is much easier to identify all previous administrative segregations for all reason types (excluding disciplinary segregation). OMS also automatically calculates number of days spent in segregation in prior sentences but includes all administrative segregation reasons. So although JS/IMD segregation is conceptually a better fit, any administrative segregation is much easier to code and since the predictive accuracy is the same, we will go with that.

Examining the 'any administrative segregation concept', both days in segregation and number of admissions add incrementally to the dichotomous 'ever admitted' (they both increase the C from .591 to .595). This is a small incremental effect.

I explored making both of them ('days' and 'number of admissions') a 3-point or 4-point scale, and found a C of no higher than .594 for a 3-point scale based on days in segregation, compared to a C of .591 for the dichotomous item – this difference is not meaningful enough to depart from a dichotomous item, so I will retain only the dichotomous variable (any prior admission to administrative segregation).

Based on feedback from the working group, there may be some concerns about using any CRS items in the scale because some people have concerns about how it works with women. Implementation resistance may be avoided if I do not use that definition. The CRS mandatory releases item is conceptually similar to other items in the scale and doesn't have better predictive accuracy, so I will delete it.

Grievances: having 2+ adds incrementally to any grievance, but a 3-point scale for these items has a C (.571) trivially different than the dichotomous variable (.569) so I will retain only the dichotomous.

Continuous variables need to be divided into categories.

3-point variable for total number of incidents had C of .586, compared to .584 for the dichotomous item, so I retained the dichotomous item.

These deletions/combinations reduced this component from 53 items to 7 items. Multicollinearity: any incident correlated with past federal sentence at .77, and with prior segregation admission at .77. These are a bit concerning but not demonstrably inappropriate. The other correlations are .72 and lower.

I did a backwards logistic model selection procedure to further narrow them down.

Final items in Component 1 are in the table below. I only included information for the models that the items were retained in.

I deleted any grievances even though it was retained in the model for non-Indigenous females because it was not in any of the other models, and removing it changed the overall C from .737 to .735, which is trivial.

Table B3

Reduced Component 1: Prior federal sentence and institutional behaviour – 6 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ACR12: Segregation for disciplinary infractions	3.429	.629	3.246	.625	2.758	.618	5.629	.635	2.884	.597	9,969
ACR14: Reclassified to higher level of security	2.843	.573	x	x	x	x	x	x	5.733	.576	10,212
ACR15: Failures on conditional release	1.891	.577	x	x	x	x	x	x	x	x	10,346
Previous federal incarceration	1.924	.570	1.842	.567	1.304	.532	x	x	x	x	11,109
Past sentence – any incident	x	x	2.572	.586	x		x	x	x	x	11,110
Past sentence – Any admissions to admin seg	3.462	.591	3.365	.593	2.525	.580	5.539	.566	x	x	11,110

Table B4

Initial Component 2: Drug use – 16 Items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
ASS02_2: Associates with substance abusers	10,237	.572	2.381	<.001				
SUB18: Abuses drugs	8,290	.583	2.239	<.001			3.158	<.001
SUB15: Uses drugs on regular basis	8,234	.581	1.954	<.001				
SUB19: Uses drugs during leisure time	8,244	.585	2.094	<.001				
SUB20: Uses drugs in social situations	8,234	.587	2.115	<.001				
SUB21: Uses drugs to relieve stress	8,142	.574	1.813	<.001				
SUB12_2: Alcohol or drug use has resulted in law violations	11,110	.580	2.086	<.001				
SUB14_2: Early age drug use	10,282	.597	2.204	<.001				
SUB16_2: Has gone on drug-taking bouts/binges	10,149	.574	1.817	<.001	1.448	<.001		
SUB17_2: Has combined the use of different drugs	10,122	.586	1.999	<.001	1.479	<.001		
SUB22_2: Drug use interferes with employment	10,092	.562	1.685	<.001	1.346	.002		
SUB23_2: Drug use interferes with interpersonal relationships	10,234	.570	1.760	<.001				
SUB26_2: Drugs interferes w/ physical/emotional well-being	9,959	.544	1.503	<.001	1.192	.075	2.042	<.001
CRS: Alcohol drug use score	11,059	.581	1.130	<.001	1.065	.007	1.224	<.001
SUB14_R: Regular drug use is part of the offender's lifestyle	2,033	.611	2.580	<.001				
SUB17_R: Alcohol and/or drug use is part of offence cycle	2,026	.550	1.601	<.001				

Deleted:

Sub15, sub19, sub20: All were highly intercorrelated (mostly exceeding .80) and also too related to sub18. For each of these items, if the item is present, then sub18 is scored as present. So sub18 seems to be the encompassing variable and was consequently retained.

-Sub17_R: I ran a model with all items of the new DFIA (including those that were matched with old DFIA items) DFIA, and the CRS item. Sub17_R was not retained.

I ran logistic regression models for the remainder of the items, separately with old and new DFIA indicators because I could not run an analysis with information on both for all cases.

Table B5
Reduced Component 2: Drug use – 6 Items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ASS02_2: Associates with substance abusers	2.381	.572	2.332	.578	x	x	x	x	x	x	10,237
SUB18: Abuses drugs	x	x	x	x	2.003	.552	x	x	x	x	8,290
SUB14_2: Early age drug use	2.204	.597	2.089	.591	1.742	.557	x	x	2.348	.595	10,282
SUB17_2: Has combined the use of different drugs	1.999	.586	2.060	.589	x	x	2.412	.607	2.101	.591	10,122
CRS: Alcohol drug use score	x	x	x	x	x	x	1.810	.636	x	x	11,059
SUB14_R: Regular drug use is part of the offender's lifestyle	2.580	.611	2.848	.625	2.007	.575	x	x	x	x	2,033

Table B6

Initial Component 3: Alcohol abuse – 13 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
SUB05: Abuses alcohol	8,264	.552	1.518	<.001				
SUB02: Drinks on a regular basis	8,218	.546	1.492	<.001				
SUB06: Drinks to excess during leisure time	8,205	.545	1.461	<.001				
SUB07: Drinks to excess in social situations	8,182	.548	1.487	<.001	1.068	.560		
SUB08: Drinks to relieve stress	8,126	.532	1.347	<.001			1.964	<.001
SUB01_2: Early age alcohol use	10,273	.555	1.569	<.001				
SUB03_2: Frequently engages in binge drinking	10,210	.546	1.461	<.001			1.970	<.001
SUB04_2: Has combined the use of alcohol and drugs	10,176	.566	1.717	<.001			2.212	<.001
SUB09_2: Alcohol use interferes with employment	10,110	.534	1.478	<.001				
SUB10_2: Alcohol use interferes with interpersonal relationships	10,249	.538	1.398	<.001			1.968	<.001
SUB07_R: Excessive alcohol use part of offender's lifestyle	2,013	.536	1.354	.003				
SUB16_R: Becomes violent when drinking or using drugs	1,958	.601	2.267	<.001				
ATT10_2: Values a substance-abusing lifestyle	10,225	.568	1.751	<.001				

Deleted

- Sub02, sub06, sub07, sub10_2 were all highly correlated with sub05 ($> .70$) and are subsumed within sub05, so I retained just sub05.
- Sub07_R is highly correlated with sub03_2 ($r = .77$), but is based on less information, is more subjective, and has lower C, so it was deleted.

Table B7

Reduced Component 3: Alcohol abuse – 6 items

	Total		Non-Indigenous men		Indigenous Men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
SUB05: Abuses alcohol	1.518	0.552	1.316	0.534	1.094	0.507	x	x	0.964	0.504	8,264
SUB08: Drinks to relieve stress	x		1.134	0.512	x	x	2.474	0.589	x	x	8,126
SUB01_2: Early age alcohol use	1.569	0.555	1.416	0.541	x	x	x	x	x	x	10,273
SUB04_2: Has combined the use of alcohol and drugs	1.717	0.566	1.524	0.550	1.348	0.532	x	x	1.905	0.576	10,176
SUB16_R: Becomes violent when drinking or using drugs	2.267	0.601	2.422	0.608	1.381	0.531	1.160	0.517	x	x	1,958
ATT10_2: Values a substance-abusing lifestyle	1.751	0.568	1.497	0.549	1.632	0.545	1.862	0.564	1.638	0.560	10,225

Table B8

Initial Component 4: Youth record/sentences and age – 7 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
YCR01: Previous offences in youth court	10,374	0.635	3.021	<.001				
YCR0206: Previous youth convictions (6 categories)	10,240	0.655	1.414	<.001				
YCR08: Youth dispositions: community supervision	10,279	0.632	3.022	<.001				
YCR09: Youth dispositions: open custody	10,242	0.594	2.702	<.001				
YCR10: Youth dispositions: Secure custody	10,277	0.61	3.085	<.001				
YCR11: Failure during community supervision	10,089	0.624	3.338	<.001				
Age at admission	11,110	0.643	0.951	<.001				

YCR items 01, 0206, 08, 11 are all too intercorrelated (>.80). I'm also concerned about access to reliable information.

YCR01 is essentially subsumed in YCR0206, so it was removed.

YCR0203 was reduced from 6 categories to 3 (with only very small decreases in accuracy).

YCR10 and 11 deleted because they resulted in trivial increase to AUC. Since they're difficult info to get, they're gone.

Age reduced to 6 categories

Table B9

Reduced Component 4: Youth record/sentences and age – 2 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
YCR02063: Previous youth convictions (down to 3 categories)	1.79	.653	1.762	.641	1.668	.655	1.587	.584	1.791	.654	10,240
Age at admission (6 categories)	0.688	.638	0.697	.636	0.662	.643	0.748	.607	0.705	.623	11,110

Table B10

Initial Component 5: Previous adult convictions/record – 7 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
ACR01: Previous offences in adult court	10,424	.548	1.987	<.001	1.283	.091	2.646	<.001
ACR0206: Previous convictions (clumped)	10,419	.582	1.178	<.001	1.038	.156		
ACR08: Prior sanctions: community supervision	10,406	.555	1.767	<.001	1.093	.437	2.323	<.001
ACR09: Prior sanctions: Provincial terms	10,404	.576	2.073	<.001	1.471	<.001		
ACR11: Failure during community supervision	10,330	.594	2.255	<.001	1.462	<.001	2.941	<.001
OSR3336: Sentence length for prior offences	10,423	.595	1.801	<.001				
CRS: Number of prior convictions score	11,059	.619	1.282	<.001	1.143	<.001		

Deleted ACR01 because it is essentially subsumed in ACR0206.

CRS prior convictions score was reduced to 3 categories, and this predicted better than the ACR0206 item, so the latter was deleted.

ACR08 deleted because it was too highly correlated with ACR11, and ACR11 is a stronger predictor.

ACR09 was too highly correlation with prior convictions (from CRS) and had lower accuracy, so it was deleted.

Table B11

Reduced Component 5 – Previous adult convictions/record – 3 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ACR11: Failure during community supervision	2.255	.594	2.210	.592	x	x	3.550	.653	x	x	10,330
OSR3336: Sentence length for prior offences (now 3 cat.)	2.027	.595	1.866	.590	1.698	.550	x	x	x	x	10,423
CRS: Number of prior convictions score (now 3 categories)	1.774	.615	1.719	.611	x	x	1.884	.649	1.539	.586	11,059

Table B12

Initial Component 6 - Sex offence components – 7 items

Predictor Variable	N	C	OR	p	Indigenous OR	Indigenous p	Women OR	Women p
Sexual offences	10,961	.524	0.570	<.001			1.549	.316
PER32: Sexual identity problem	8,063	.503	0.707	.084			2.705	.012
PER33_2: Has deviant sexual preferences	10,059	.524	0.561	<.001			3.072	.002
OSR51: Current victims were children	10,412	.527	0.512	<.001			0.959	.885
OSR57: Use of power/position/authority over current victim	10,405	.503	1.032	.574			1.862	<.001
SOH0204: Current sentence for sex or sex-related offence	10,430	.527	0.541	<.001			1.643	.230
Sex offence involving child flag	11,091	.525	0.423	<.001				

Items in this domain were the rare few that tended to predict JS segregation but not IMD segregation. Given that the overall scale will combine both reasons for segregation, it would be ideal to use as few of these variables as possible.

For women, the only thing that was retained (with non-trivial C) was OSR57 for Indigenous females.

For men: deleted PER32 (non-significant) and OSR57 (non-significant overall).

Sex offences, PER33_2, SOH0204, and child sex flag were all too highly correlated. SOH0204 was retained: it has higher accuracy than sexual offences (the other top choice) for both Indigenous men and non-Indigenous men.

OSR51 deleted: trivial improvement to model for non-Indigenous men (no incremental effect for Indigenous men).

Table B13

Reduced Component 6 - Sex offence components – 2 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
OSR57: Use of power/position/authority over current victim	x	x	x	x	x	x	x	x	1.685	.550	10,405
SOH0204: Current sentence for sex or sex-related offence	0.541	.527	0.467	.535	0.446	.552	x	x	x	x	10,430

Table B14

Initial Component 7 – Mental Health – 9 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
PER36: Diagnosed as disordered in the past	8,189	.548	1.825	<.001				
PER37: Diagnosed as disordered currently	8,144	.533	1.775	<.001			2.827	<.001
PER39: Prescribed medication in the past	8,047	.554	1.586	<.001			2.846	<.001
PER40: Prescribed medication currently	8,095	.532	1.416	<.001			2.326	<.001
PER41: Past hospitalization	8,127	.522	1.322	<.001	1.043	.740	2.494	<.001
PER42: Current hospitalization	8,265	.507	1.675	<.001			6.900	<.001
PER43: Received outpatient services in the past	8,103	.523	1.330	<.001			2.432	<.001
PER44: Receiving outpatient services prior to admission	8,192	.502	1.081	.448			2.353	<.001
History of suicide attempts or self-injury (flag)	11,091	.529	1.907	<.001				

Note: Current hospitalization did not load on this component (loading = .271) but I kept it here for face validity

PER37 deleted: Lower C than PER36 (and they are similar constructs). Combining them into one variable did not particularly improve accuracy. Adding them in one model did not provide better C than PER36 alone. Same issues for PER40 (not adding to PER39), PER42 (not adding to PER41), and PER44 (not adding to PER43).

Table B15

Reduced Component 7 – Mental Health – 5 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
PER36: Diagnosed as disordered in the past	1.825	.548	1.922	.549	x	X	x	x	x	x	8,189
PER39: Prescribed medication in the past	1.586	.554	x	x	1.738	.559	2.843	.623	2.562	.607	8,047
PER41: Past hospitalization	x	x	x	x	x	x	2.956	.624	x	x	8,127
PER43: Received outpatient services in the past	x	x	x	x	x	x	2.927	.620	x	x	8,103
History of suicide attempts or self-injury (flag)	1.907	.529	1.811	.524	x	x	x	x	3.549	.578	11,091

Table B16

Initial Component 8 – Current violent offence – 5 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
Assault (current offence – from offence table)	10,961	.577	2.610	<.001	1.801	<.001	4.102	<.001
OSR60: Violence used against current victim	10,410	.588	2.302	<.001			3.097	<.001
OSR61: Weapon used against current victim	10,370	.567	2.422	<.001				
OSR63: Serious injury to current victim	10,378	.545	2.019	<.001				
OSR64: Minor injury to current victim	10,389	.565	2.125	<.001				

OSR63 and OSR64 are too subjective, have the lowest effect sizes, and are the first 2 removed from the model. Consequently, they were deleted.

Assault was later subsumed in the criminal versatility item I created, so it was removed here.

Table B17

Reduced Component 8 – Current violent offence – 2 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
OSR60: Violence used against current victim	2.103	.588	1.965	.577	x	x	2.704	.606	3.319	.636	10,410
OSR61: Weapon used against current victim	2.183	.567	2.125	.559	2.070	0.574	x	x	x	x	10,370

Table B18

Initial Component 9 – Prior violent offence – 6 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
OSR10: Prior violence (assault, robbery)	10,418	.618	2.727	<.001	2.114	<.001	3.846	<.001
OSR1921: Number of prior victims	10,262	.631	1.443	<.001	1.323	<.001	1.696	<.001
OSR25: Violence used against prior victim	10,270	.613	2.522	<.001			3.904	<.001
OSR26: Weapons used against prior victims	9,956	.577	2.412	<.001	1.795	<.001	3.436	<.001
OSR28: Caused serious injury to prior victim	9,893	.536	1.912	<.001	1.339	.009	3.179	<.001
OSR29: Caused minor injury to prior victim	10,008	.601	2.272	<.001			3.399	<.001

-OSR10, 1921, 25, and 29 are too highly correlated to keep together. I chose OSR10 to retain (and deleted the others). It has the highest C (except for 1921, but that's more continuous anyway) and is most objective to define and has greatest face validity.

OSR28 was not retained in any of the models (also the most subjective).

Table B19

Reduced Component 9 – Prior violent offence – 2 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
OSR10: Prior violence (assault, robbery)	2.727	.618	2.463	.608	1.834	.552	4.348	.665	2.453	.605	10,418
OSR26: Weapons used against prior victims	2.412	.577	2.277	.565	1.655	.560	x	x	x	x	9,956

Table B20

Initial Component 10: Employment – 11 items

Predictor Variable	N	C	OR	p	Indigenous OR	Indigenous p	Women OR	Women p
EMP13: Lacks skill area/trade/profession	8,257	.599	2.323	<.001				
EMP17: Unemployed 90% of the time or more	8,119	.592	2.171	<.001				
EMP18: Unemployed 90% of the time or more	8,020	.601	2.407	<.001			4.062	<.001
EMP24: Lacks initiative	7,829	.545	1.525	<.001				
EMP14_2: Dissatisfied with job skills	9,966	.563	1.669	<.001				
EMP22_2: Has no employment history	10,288	.559	2.658	<.001				
EMP16_2: Unemployed at time of arrest	10,208	.564	1.785	<.001			2.779	<.001
EMP19_2: Job history unstable	10,234	.595	2.471	<.001			3.785	<.001
EMP06_R: Marketable job skills obtained through experience are limited	2,003	.622	2.713	<.001			0.641	.420
EMP07_R: Marketable job skills obtained through formal training are limited	1,984	.573	2.543	<.001				
EMP11_R: Work ethic can be described as poor	1,791	.586	2.240	<.001				

EMP24 was deleted because it is arguably the most subjective and has lowest C.

EMP06_R was deleted because it is challenging to operationalize and has a reverse-direction effect for women.

EMP11_R was deleted because it is subjective and we have data only for such a small group – not worth trying to retain it when they are other options in this component.

EMP07_R deleted: small sample size, and removing it from the model led to trivial reduction in C.

Table B21

Reduced Component 10: Employment – 6 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
EMP13: Lacks skill area/trade/profession	2.323	.599	2.338	.602	2.303	.589	x	x	x	x	8,257
EMP17: Unemployed 90% of the time or more	x	x	x	x	2.438	.609	x	X	x	X	8,119
EMP18: Unemployed 50% of the time or more	2.407	.601	2.248	.598	x	x	3.773	.642	4.009	.585	8,020
EMP14_2: Dissatisfied with job skills	x	x	x	x	x	x	x	x	1.725	.563	9,966
EMP22_2: Has no employment history	2.658	.559	2.692	.554	2.354	.559	3.069	.571	2.966	.609	10,288
EMP19_2: Job history unstable	2.471	.595	2.270	.591	x	x	3.718	.634	x	x	10,234

Table B22

Initial Component 11 – CRS Institutional Adjustment Items – 6 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
CRS: incident score	11,059	.711	1.033	<.001	1.027	<.001	1.039	<.001
CRS: Incident severity remand score	11,059	.593	1.350	<.001			1.509	<.001
CRS: Incident severity score	11,059	.599	2.077	<.001	1.712	<.001		
CRS: Institutional adjustment score	11,059	.755	1.030	<.001	1.026	<.001		
CRS: Involve in incident score	11,059	.670	2.045	<.001	1.860	<.001		
CRS: Involve in last 5 years	11,059	.621	3.133	<.001	2.586	<.001	4.720	<.001

CRS incident score and Institutional adjustment score were deleted because they are composite scores summed from other CRS items. I want to focus on the specific items.

Incident severity was removed from most models. In the models where it was retained in, it made a trivial difference to the C, so I removed it.

Table B23

Reduced Component 11 – CRS Institutional Adjustment Items – 3 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
CRS: Incident severity remand score	1.350	.593	4.219	.594	3.512	.584	10.509	.576	4.588	.596	11,059
CRS: Incident severity score	2.077	.599	4.477	.604	2.631	.580	7.262	.570	x	x	11,059
CRS: Involve in last 5 years	3.133	.621	4.132	.615	3.321	.610	7.526	.638	4.165	.621	11,059

Table B24

Initial Component 12 - Gangs – 4 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
Gang member (from affiliation table)	11,110	.553	2.771	<.001	3.099	<.001		
Any gang: member	11,110	.533	2.886	<.001				
Any gang: associate or member	11,110	.541	2.703	<.001				
Indigenous gang	11,110	.513	3.390	<.001	2.543	<.001	7.201	<.001

All but Indigenous gang were too highly inter-correlated;

Gang member from affiliation table was retained: it has highest C, highest frequency (so appears to be most inclusive), and it's also the least subjective. Once you control for Indigenous status, then Indigenous gang variable did not add incrementally to gang member, so it was deleted.

Table B25

Reduced Component 12 – Gangs – 1 item

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
Gang member (from affiliation table)	2.771	.553	2.286	.539	2.843	.589	x	x	3.735	.563	11,110

Table B26

Initial Component 13 – Problem-solving and empathy – 7 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
PER12: Has disregard for others	8,257	.599	2.453	<.001				
PER13: Socially unaware	8,269	.553	1.769	<.001			2.365	<.001
PER29: Is not conscientious	8,206	.585	2.033	<.001				
PER07_2: Problems recognition skills are limited	10,327	.560	1.619	<.001			1.057	.682
PER09_2: Ability to generate choices is limited	10,314	.567	1.796	<.001			1.311	.046
PER11_2: Difficulty setting realistic goals	10,243	.566	1.893	<.001				
PER15_2: Empathy skills limited	10,170	.586	2.101	<.001				

Socially unaware was deleted because it is too subjective and has lowest C.

PER07_2 was deleted. It has lower C, is more subjective, non-significant for women, and is the first variable dropped in an overall model;

Per29 was deleted. It is quite subjective, and removing it results in trivial reduction in C.

Table B27

Reduced Component 13 – Problem-solving and empathy – 4 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
PER12: Has disregard for others	2.453	.599	2.183	.583	2.321	.574	2.259	.595	2.353	.602	8,257
PER09_2: Ability to generate choices is limited	1.796	0.567	1.823	0.570	1.664	0.550	x	x	x	x	10,314

PER11_2: Difficulty setting realistic goals	1.893	0.566	1.828	0.564	x	x	2.211	0.565	2.424	0.579	10,243
PER15_2: Empathy skills limited	2.101	0.586	2.072	0.586	1.712	0.565	x	x	x	x	10,170

Table B28

Initial Component 14 – Emotional dysregulation, particularly in social situations – 7 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
PER20: Poor conflict resolution	8,247	.604	2.841	<.001				
PER08_2: Difficulty solving interpersonal problems	10,303	.582	2.238	<.001			2.810	<.001
PER17_2: Frequently acts in aggressive manner	10,260	.644	3.267	<.001	2.623	<.001		
PER22_R: Frequently interprets neutral situations as hostile	1,949	.589	2.605	<.001				
PER18_2: Assertiveness skills limited	10,337	.533	1.304	<.001				
PER19_2: Difficulty coping with stress	10,160	.555	1.676	<.001				
PER23_2: Low frustration tolerance	10,149	.621	2.697	<.001	2.137	<.001	3.978	<.001

Deleted PER22_R because of insufficient sample size, and it did not meaningfully improve the C;

Deleted per20 because of sample size issues, subjectivity, and its inclusion does not strongly improve the C.

Per18_2 and PER19_2 were not retained in any of the models and had the lowest Cs.

Table B29

Reduced Component 14 – Emotional dysregulation, particularly in social situations – 3 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
PER08_2: Difficulty solving interpersonal problems	2.238	.582	2.046	.576	x	x	2.680	.616	2.790	.614	10,303

PER17_2: Frequently acts in aggressive manner	3.267	.644	3.103	.637	2.513	0.604	4.277	.656	2.714	.620	10,260
PER23_2: Low frustration tolerance	2.697	.621	2.610	.617	2.004	0.586	4.124	.666	3.086	.634	10,149

Table B30

Initial Component 15 – Domestic violence – 4 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
FAM18_2: Perpetrated spousal violence	10,168	.522	1.221	<.001	0.862	.110	1.848	<.001
ATT21_2: Attitudes support spousal violence	10,160	.521	1.338	<.001	0.971	.781	2.085	.001
OSR09: Prior forcible confinement/kidnapping	10,416	.515	2.086	<.001	1.402	.091	5.076	<.001
Family violence flag	11,091	.542	1.608	<.001	1.100	.325		

Family violence was retained; the others did not add meaningfully to C.

Table B31

Reduced Component 15 – Domestic violence – 2 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
FAM18_2: Perpetrated spousal violence	x	x	x	x	x	x	1.911	0.548	x	x	10,168
Family violence flag	1.608	.542	1.615	.543	x	x	x	x	x	x	11,091

Table B32

Initial Component 16 – Associates/criminal culture – 6 items

Predictor Variable	N	C	OR	p	Indigenous	Women
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					OR	p	OR	p
FAM10_2: Family members criminally active in childhood	10,004	.552	1.553	<.001			1.238	.112
ASS03_2: Has many criminal acquaintances	10,179	.595	2.789	<.001				
ASS04_2: Has many criminal friends	10,027	.621	2.693	<.001			2.073	<.001
ASS05_2: Affiliated with a gang or organized crime	10,182	.569	2.694	<.001				
ASS06_2: Resides in high crime area	9,761	.558	1.671	<.001				
ATT03_R: Takes pride in criminal exploits	2,016	.564	2.318	<.001				

Note: Traffic/importing drugs in current offence just barely loaded on this component. Since it did not make intuitive sense, I removed it.

Ass03 and Ass04 are too correlated. Ass04 has higher accuracy, and adding in ass03 did not add much to the C, so it was deleted.

FAM10_2 had lowest C and questionable face validity, and it can also discriminate against offenders based on social history over which they have no control, so it was deleted.

Table B33

Reduced Component 16 – Associates/criminal culture – 4 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ASS04_2: Has many criminal friends	2.693	.621	2.679	.620	2.732	.618	1.728	.564	2.390	.605	10,027
ASS05_2: Affiliated with a gang or organized crime	2.694	.569	2.384	.555	2.897	.603	x	x	x	x	10,182
ASS06_2: Resides in high crime area	x	x	x	x	x	x	1.963	.578	1.553	.553	9,761
ATT03_R: Takes pride in criminal exploits	2.318	.564	2.094	.554	3.030	.597	x	x	x	x	2,016

Table B34

Initial Component 17 – Street stability – 3 items

Predictor Variable	N	C	OR	p	Indigenous OR	Women p
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					OR p	
COM01_2: Unstable accommodation	10,256	.581	1.968	<.001		
CRS: Street stability adjustment score	11,059	.636	2.311	<.001	1.877	<.001
CRS: Street stability risk score	11,059	.633	2.220	<.001	1.859	<.001

CRS street stability was considered too subjective and it is a composite of several items, so it was deleted.

Table B35

Reduced Component 17 – Street stability – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
COM01_2: Unstable accommodation	1.968	.581	1.947	.578	1.542	.554	2.585	.614	2.134	.594	10,256

Table B36

Initial Component 18 - Property offences -6 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
Break and enter (current offence)	10,961	.548	2.065	<.001	1.431	.002		
Other property offences (current offence)	10,961	.536	1.720	<.001				
Theft (current offence)	10,961	.533	1.768	<.001				
ATT18_2: Disrespects personal belongings	10,314	.602	2.603	<.001				
ATT19_2: Disrespects public or commercial property	10,308	.590	2.349	<.001				
CRS: Offence severity score (loads inversely)	11,059	.531	1.436	<.001			1.916	<.001

I combined the first 3 variables into a ‘current property offence item’. Attitudes items were also combined together into 1 item. The CRS item did not seem to clearly match the coding rules available for the scale – I suspect some data reliability issues, so I removed it.

Note that any current property offence was later subsumed in criminal versatility item.

Table B37

Reduced Component 18 - Property offences -1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ATT1819_2: Disrespects personal/public/commercial property (new variable)	1.695	.563	2.452	.609	2.350	.603	2.477	.596	1.907	.561	10,306

Table B38

Initial Component 19 – Low education – 3 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
EMP01: Less than grade 8	8,048	.536	1.505	<.001	1.040	.749	2.592	<.001
EMP02_2: Less than grade 10	10,010	.561	1.627	<.001	1.202	.051		
EMP03_2: Has no high school diploma	9,950	.555	1.854	<.001				

Items were combined into 1 based on segregation rates per level. Final item is 3-point scale (high school, no high school, <grade 10).

Table B39

Reduced Component 19 – Low education – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
Low_ed2	1.437	.576	1.408	.573	x	x	1.511	.593	x	x	8,023

Table B40

Initial Component 20 – Seriousness of current offence – 5 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
Homicide and related (current offence)	10,961	.528	2.195	<.001				
Sentence length (years)	10,706	.646	1.195	<.001	1.260	<.001		
Life sentence	11,110	.527	3.563	<.001				
CRS: Security risk score	11,059	.711	1.025	<.001				
CRS: Sentence length score	11,059	.566	1.561	<.001	1.761	<.001		

Note: “Lifer” did not load on any components, but I included it here for face validity reasons (it is a natural extension of sentence length). Deleted CRS security risk because it is a composite score from many items. Deleted CRS sentence length variable because I have the continuous variable available (a more direct assessment).

Sentence length and lifer were combined and clumped into a 4-category variable (2 years, up to 3 years, 3 years to under 10 years, 10+ years including lifers). Homicide only added incrementally for non-Indigenous women, but in negative direction, so it was removed.

Table B41

Reduced Component 20 – Seriousness of current offence – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
Sentence length – new variable with 4 categories	2.128	.658	2.093	.652	2.288	.666	2.113	.660	2.028	.668	10,706

Table B42

Initial Component 21 – Dysfunctional parents – 4 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
FAm06: Parents’ relationship dysfunctional in childhood	8,070	.562	1.644	<.001				

FAM03_2: Relations with parental figure neg. in childhood	10,322	.567	1.711	<.001
FAM07_2: Witnessed family violence during childhood	9,962	.541	1.452	<.001
ASS09_R: Prosocial family support is limited	2,013	.575	1.881	<.001

FAM03_R predicted better than the combination of the first 3 variables, so fam06 and fam07_2 were deleted.

Table B43

Reduced Component 21 – Dysfunctional parents – 2 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
FAM03_2: Relations with parental figure neg. in childhood	1.711	.567	1.617	.559	1.841	.572	2.167	.594	x	x	10,322
ASS09_R: Prosocial family support is limited	1.881	.575	1.734	.563	2.001	.586	2.647	.619	4.750	.674	2,013

Table B44

Initial Component 22 – Psychopathic features – 6 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
ASS08: Relations are described as predatory	8,222	.543	1.768	<.001			2.548	<.001
PER01: Feels especially self-important	8,259	.535	1.685	<.001				
PER16_2: Displays narrow and rigid thinking	10,252	.596	2.189	<.001			2.761	<.001
PER24_2: Hostile	10,273	.589	2.590	<.001	1.793	<.001	4.384	<.001
PER27_2: Engages in thrill-seeking behaviour	10,178	.581	2.018	<.001				
PER30_2: Manipulates others to achieve goals	10,078	.570	1.751	<.001			2.258	<.001

Deleted ASS08 and PER01. They are too subjective, have the lowest effect sizes, smallest *n*, and are the first (and only 2 items) from an an overall model.

Table B45
Reduced Component 22 – Psychopathic features – 4 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
PER16_2: Displays narrow and rigid thinking	2.189	.596	2.001	.585	1.947	.582	2.532	.594	2.719	.619	10,252
PER24_2: Hostile	2.590	.589	2.598	.586	1.572	.550	4.761	.620	3.122	.622	10,273
PER27_2: Engages in thrill-seeking behaviour	2.018	.581	1.946	.578	1.987	.582	x	x	2.485	.603	10,178
PER30_2: Manipulates others to achieve goals	1.751	.570	1.696	.565	x	x	2.095	.589	x	x	10,078

Table B46
Initial Component 23 – Parenting problems – 3 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
FAM19_2: Has no parenting responsibilities (negative loading)	10,352	.530	1.276	<.001				
FAM20_2: Sig. difficulties handling parenting responsibilities	9,996	.514	1.238	<.001			1.801	<.001

FAM23_2: Parental knowledge/skills lacking	10,067	.514	1.211	.001	1.809	<.001
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Deleted all 3 items. The effect sizes are low overall (even for women, there are much better variables available), and the items do not have much face validity (parenting problems are not directly an issue in institutions).

Table B47

Initial Component 24 – Poor life skills – 4 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
COM02: Residence poorly maintained	6,763	.509	1.265	.021			2.594	<.001
COM03: Has poor self-presentation	8,296	.504	1.224	.088			2.558	<.001
COM04: Has poor hygiene	8,183	.500	0.957	.805			2.809	.010
ATT11: Basic life skills have no value	8,259	.539	2.149	<.001				

For men, even combining the three COM variables together barely had a small C.

Table B48

Reduced Component 24 – Poor life skills – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
COM02: Residence poorly maintained	x	x	x	x	x	x	2.718	.552	x	x	6,763

Table B49

Initial Component 25 – Learning problems – 5 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
EMP11: Numeracy problems	8,170	.534	1.386	<.001			1.848	<.001
EMP12: Difficulty comprehending instructions	8,198	.518	1.371	<.001			2.242	<.001
EMP05: Has learning disabilities	7,007	.537	1.706	<.001			2.524	<.001
EMP08: Has concentration problems	8,155	.565	1.837	<.001				
Need: Diagnosed or suspected learning disability	11,091	.516	1.659	<.001			3.296	.001

The two different variables of learning disability (from DFIA and from the flag) show little relationship - cross-tab analyses suggest both are unreliable (i.e., each variable is identifying cases the other is missing). Neither has a large effect size. Given concerns about staff's ability to reliably identify this variable, I will remove both (accuracy was fairly low to begin with).

EMP11 only added incrementally in the overall model, and trivially improved C; consequently, it was deleted.

EMP12 was only retained in model for Indigenous women, though non-significant ($p = .09$) and did not a meaningful effect on the C, so it was deleted.

Table B50

Reduced Component 25 – Learning problems – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
EMP08: Has concentration problems	1.837	.565	1.729	.557	1.753	.563	2.226	.585	2.214	.592	8,155

Table B51

Initial Component 26 – Youth institutional behaviour – 3 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p

YCR12: Disciplinary transfers from open to secure custody	9,913	.532	3.956	<.001
YCR13: Disciplinary report in secure custody	9,598	.548	3.951	<.001
YCR14: Attempt escape/UAL/escape from secure custody	10,089	.529	2.958	<.001

YCR14 was deleted – it did not add incrementally to number of prior youth convictions (from Component 4)

YCR12 and YCR13 predicted better when combined into a single variable.

Table B52

Reduced Component 26 – Youth institutional behaviour – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
YCR1213: Disciplinary transfers to secure custody, or reports in secure custody	3.637	.553	3.537	.547	2.742	.563	4.120	.527	4.571	.560	9,906

Table B53

Initial Component 27 – Instrumental violence? – 3 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
Robbery	10,961	.573	2.358	<.001				
ATT22_2: Attitudes support instrumental/goal-oriented violence	10,253	.638	3.126	<.001				
OSR5456: Number of current victims (0,1,2,3+)	10,409	.598	1.353	<.001			1.576	<.001

Deleted OSR5456: I tried to reduce it into clumps, but there was very little difference between 1, 2, and 3. If I dichotomize it though, it is really just a proxy for having a violent offence (which I have elsewhere).

Robbery was later subsumed in criminal versatility item and was deleted here.

Table B54

Reduced Component 27 – Instrumental violence? – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ATT22_2: Attitudes support instrumental/goal-oriented violence	3.126	.638	3.000	.634	2.501	.610	3.681	.604	2.611	.614	10,253

Table B55

Initial Component 28 – Childhood: distant/absent parents – 3 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
FAM02: Mother absent during childhood	8,291	.540	1.628	<.001			1.157	.385
FAM04: Father absent during childhood	8,283	.560	1.645	<.001			1.295	.059
FAM01_2: Limited attachment to family unit in childhood	10,354	.553	1.685	<.001				

FAM02 and FAM04 were combined into one.

Table B56

Reduced Component 28 – Childhood: distant/absent parents – 2 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
FAM0204: Mother or father absent during childhood	1.698	0.565	1.701	0.564	1.779	0.568	x	x	x	x	8,282
FAM01_2: Limited attachment to family unit in childhood	1.645	0.553	x	x	1.669	0.562	1.840	0.563	1.870	0.570	10,354

Table B57

Initial Component 29 – Prior sex offence – 3 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
OSR11: Prior sex offences	10,416	.501	0.983	.835			4.924	.025
OSR16: Prior victims were children	10,214	.509	1.291	.002			2.874	<.001
OSR22: Use of power/position or authority over prior victim	10,242	.528	1.458	<.001			3.642	<.001

I deleted them all. Prior sex offences only predicted for women, and there are too few female sex offenders for this to be meaningful. Prior victims were children had a tiny effect size except for women (and again, *n* too small). Use of power/position/authority also has small effect size, and is better captured under other criminal history variables;

Table B58

Initial Component 30 – Impulsivity – 6 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
COM15_2: Constructive leisure activities are limited	10,248	.563	1.756	<.001				
PER26: Takes risk inappropriately	8,268	.552	1.686	<.001	2.362	<.001		
PER14_2: Impulsive	10,357	.577	2.932	<.001				
PER21_2: Time management skills problematic	10,036	.584	1.983	<.001				
ATT23_2: Difficulty setting long-term goals	10,341	.602	2.427	<.001				
ACR17: No crime free period of 1 year or more	10,397	.572	2.616	<.001				

Note: ACR17 was ever so slightly below the .32 loading, but did not load anywhere else, so I opted to put it here as opposed to examining it separately.

Deleted PER26 because it had the lowest C, smallest sample size, and did not meaningfully change the model when removed.

Deleted COM15_2 because it was only retained for non-Indigenous males, and had a trivial change to C if removed.

Table B59

Reduced Component 30 – Impulsivity – 4 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
PER14_2: Impulsive	2.932	.577	2.848	.577	2.475	.545	2.729	.595	x	x	10,357
PER21_2: Time management skills problematic	1.983	.584	1.805	.572	2.039	.586	x	x	2.292	.589	10,036
ATT23_2: Difficulty setting long-term goals	2.427	.602	2.276	.594	2.361	.586	2.339	.605	2.124	.593	10,341
ACR17: No crime free period of 1 year or more	2.616	.572	2.534	.566	2.092	.576	x	x	2.814	.558	10,397

Table B60

Initial Component 31 – Intimate relationships – 5 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
FAM11: Currently single	8,266	.528	1.262	<.001				
FAM12: Has been married or common-law in the past	8,293	.534	0.674	<.001	0.507	<.001		
FAM13: Dissatisfied with current relationship	8,216	.502	0.953	.592			1.819	<.001
FAM14_2: Intimate relationships have been problematic	10,254	.513	0.900	.021	0.703	<.001		
FAM06_R: Unable to maintain enduring intimate relationship	2,011	.537	1.400	.002				

Deleted FAM14_2 because effect sizes are small and counter-intuitive (C and OR are in opposite directions).

FAM13 was only considered for women (same concern as FAM14_2).

FAM12 and fam11 were combined into one 3-point variable (past/present relationship, either fam11 or 12 scored as present, or no past and no present)

FAM06_R was deleted because it had too small a sample size, was only significant for non-Indigenous men. Also, I think the combination of fam11 and 12 better captures this construct.

Table B61

Reduced Component 31 – Intimate relationships – 2 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
Relationship: past and present (combined FAM11 and 12)	1.271	.544	1.213	.537	1.365	.554	1.282	.540	x	x	8,265
FAM13: Dissatisfied with current relationship	x	x	x	x	x	x	1.728	.532	1.847	.546	8,216

Table B62

Initial Component 32 – Escape history – 2 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
ACR13: Attempt escape/UAL escape	10,378	.556	1.938	<.001	1.393	.002		
CRS: Escape history score	11,059	.547	1.061	<.001				

ACR13 item is simpler to define and has higher C, so I retained only that.

Table B63

Reduced Component 32 – Escape history – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ACR13: Attempt escape/UAL escape	1.938	.556	1.997	.560	x	x	2.576	.559	1.955	.551	10,378

Table B64

Initial Component 33 – Negative attitudes to CJS – 2 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
ATT01_2: Displays negative attitudes towards CJS	10,377	.577	2.009	<.001				
ATT04_2: Displays negative attitudes to correctional systems	10,362	.616	2.576	<.001	2.132	<.001		

Combining the items degraded accuracy. I retained att04_2 because of higher C.

Table B65

Reduced Component 33 – Negative attitudes to CJS – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ATT04_2: Displays negative attitudes to correctional systems	2.576	0.616	2.449	0.610	1.987	0.583	3.849	0.629	2.051	0.582	10,362

Table B66

Initial Component 34 – Difficulty in social relations – 3 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
ASS09: Often victimized in social relations	8,213	.503	1.049	.511	0.778	.090	1.718	<.001
ASS11: Difficulty communicating with others	8,262	.523	1.305	<.001	1.051	.676	1.747	<.001
COM14: Unable to express verbally	8,300	.502	1.111	.399			2.672	<.001

Examined for women only (effects small or non-existent for overall group).

I deleted COM14 because it was significant for non-Indigenous women, but barely improved C above ass09.

Table B67

Reduced Component 34 – Difficulty in social relations – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ASS09: Often victimized in social relations	x	x	x	x	x	x	1.720	0.558	1.614	0.553	8,213

Table B68

Initial Component 35 – Outstanding charges – 2 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
Outstanding charges	11,091	.590	2.220	<.001				
CRS: Outstanding charge score	11,059	.543	1.340	<.001	1.194	.001		

These should be measuring the same thing, but the flag was a better predictor, so I retained only that.

Table B69

Reduced Component 35 – Outstanding charges – 1 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
Outstanding charges	2.220	.590	2.099	.585	1.996	.582	2.134	.565	3.121	.616	11,091

Table B70

Initial Component 36 – Arson – 2 items

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
OSR06: Prior arson/firesetting	10,417	.507	1.767	<.001			6.588	<.001
Arson	10,961	.506	2.335	<.001				

Both were deleted because the accuracy was small. For women, the base rate was too low for reliable accuracy.

Table B71

Remaining items not in above components (23 items) – initial list

Predictor Variable	N	C	OR	p	Indigenous		Women	
					OR	p	OR	p
Abduct/kidnap (current offence)	10,961	.514	1.786	<.001			3.650	<.001
Impaired driving (current offence)	10,961	.513	0.583	<.001				
Administration of justice (current offence)	10,961	.529	1.328	<.001	1.057	.561		
Other (current offence)	10,961	.561	1.629	<.001				
Public order offences (current offence)	10,961	.539	2.403	<.001	1.772	<.001		
Traffic/importing drugs (current offence)	10,961	.573	0.434	<.001				
Weapons/explosives (current offence)	10,961	.545	1.906	<.001			3.235	<.001
ASS04_R: Has contact with criminal family members	2,003	.546	1.624	<.001				
ASS08_R: Prosocial support from intimate partner is limited	1,988	.548	1.485	<.001				
ASS10_R: Prosocial support from friends is limited	1,967	.599	2.946	<.001			0.894	.842
COM05: Has physical problems	8,200	.525	0.768	<.001			1.044	.763
COM06: Has dental problems	8,078	.508	0.884	.097	0.618	<.001		
PER02: Physical prowess problematic	8,272	.537	2.145	<.001				
PER14_R: Listening skills are limited	2,018	.546	1.636	<.001				
PER06_R: Gives up easily when challenged	1,941	.535	1.366	.004				

ATT09_R: Attitudes support expressive/emotional violence	2,043	.579	1.935	<.001			
ATT10_R: Denies or uses excuses to justify or minimize crime	2,063	.527	1.253	.025			
ACR16: Less than 6 months since last incarceration	10,405	.574	2.342	<.001			
OSR18 Prior victims were elderly	10,138	.505	1.628	<.001		4.423	<.001
High profile flag	11,091	.523	2.409	<.001			
Need: communication/physical disability or sensitivity impairing daily living activities	11,091	.500	0.937	.798		3.206	.042
Staff safety threat	11,091	.522	4.596	<.001			
LTSO flag	11,091	.503	1.556	.025	2.689	.004	

Deleted due to low face validity: Other (current offence), dental problems, physical prowess problematic, denies (small effect size), impaired driving (small effect size).

Physical problems had small effect overall, and was non-applicable to women (reversed direction), so it was deleted.

Prior victims elderly was deleted (small effect, even for women).

Disability need was deleted: effect size was small, even for women.

LTSO flag was deleted: effect size was small, even for Indigenous offenders.

ASS04_R was retained in stepwise analyses only for the overall model (not for any subgroups), so I opted to delete it.

PER06_R was only significant for Indigenous women, but the effect size estimate appeared wildly unstable with this small group, so it was deleted.

Table B72

Leftover items after reduction – 7 items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	C	OR	C	OR	C	OR	C	OR	C	
ASS10_R: Prosocial support from friends is limited	2.946	.599	2.968	.604	3.341	.587	x	x	x	x	1,967
ATT09_R: Attitudes support expressive/emotional violence	1.935	.579	2.010	.581	x	x	x	x	6.998	.722	2,043
Versatility in current offence (new item)	1.711	.654	1.737	.657	1.428	.601	1.825	.669	1.752	.663	10,961

Traffic/importing drugs (current offence)	0.434	.573	0.493	.566	0.498	.533	0.347	.611	0.448	.570	10,961
ACR16: Less than 6 months since last incarceration	2.342	.574	2.231	.570	1.944	.571	2.780	.556	x	x	10,405
High profile flag	2.409	.523	2.541	.525	3.213	.520	2.220	.529	2.688	.525	11,091
Staff safety threat	4.596	.522	4.279	.520	3.403	.522	6.994	.528	9.250	.540	11,091

Online Supplement C: Stage Two of Item Reduction by Component

In this round of item reduction, I am continuing with similar reduction strategies as those used in Appendix B, but I am subjectively combining several components together first. Given the large number of items available, I am also going to use a more strict criterion for multicollinearity. Correlations of .60 and higher will be considered problematic. Similar to Appendix B, this Appendix will present a table with the initial predictors that were explored for item reduction, followed by a table with the reduced set of items. Decisions made based on criteria other than backwards elimination model selection will be noted.

First I will examine DFIA-R items on their own because their smaller sample size precludes their use in models with other DFIA items.

Table C1

Initial DFIA-R Items – 6 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
SUB14_R: Regular drug use is part of the offender's lifestyle	2.580	.611	2.848	.625	2.007	.575					2,033
SUB16_R: Becomes violent when drinking or using drugs	2.267	.601	2.422	.608	1.381	.531	1.160	.517			1,958
ATT03_R: Takes pride in criminal exploits	2.318	.564	2.094	.554	3.030	.597					2,016
ASS09_R: Prosocial family support is limited	1.881	.575	1.734	.563	2.001	.586	2.647	.619	4.750	.674	2,013
ASS10_R: Prosocial support from friends is limited	2.946	.599	2.968	.604	3.341	.587					1,967
ATT09_R: Attitudes support expressive/emotional violence	1.935	.579	2.010	.581					6.998	.722	2,043

Table C2
Reduced DFIA-R Items– 5 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
SUB14_R: Regular drug use is part of the offender's lifestyle	2.580	.611	2.848	.625							2,033
ATT03_R: Takes pride in criminal exploits	2.318	.564	2.094	.554	3.030	.597					2,016
ASS09_R: Prosocial family support is limited	1.881	.575							4.750	.674	2,013
ASS10_R: Prosocial support from friends is limited	2.946	.599	2.968	.604	3.341	.587					1,967
ATT09_R: Attitudes support expressive/emotional violence	1.935	.579	2.010	.581					6.998	.722	2,043

Table C3
Initial Criminal History Variables – 18 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
YCR02063: Previous youth convictions (down to 4 categories)	1.790	.653	1.762	.641	1.668	.655	1.587	.584	1.791	.654	10,240
Age at admission (6 categories)	0.688	.638	0.697	.636	0.662	.643	0.748	.607	0.705	.623	11,110
ACR11: Failure during community supervision	2.255	.594	2.210	.592			3.550	.653			10,330
OSR3336: Sentence length for prior offences (now 3 cat.)	2.027	.595	1.866	.590	1.698	.550					10,423
CRS: Number of prior convictions score (now 3 categories)	1.774	.615	1.719	.611			1.884	.649	1.539	.586	11,059
OSR10: Prior violence (assault, robbery)	2.727	.618	2.463	.608	1.834	.552	4.348	.665	2.453	.605	10,418
OSR26: Weapons used against prior victims	2.412	.577	2.277	.565	1.655	.560					9,956
CRS: Incident severity remand score	1.350	.593	4.219	.594	3.512	.584	10.509	.576	4.588	.596	11,059
CRS: Incident severity score	2.077	.599	4.477	.604	2.631	.580	7.262	.570			11,059
CRS: Involve in last 5 years	3.133	.621	4.132	.615	3.321	.610	7.526	.638	4.165	.621	11,059
YCR1213: Disciplinary transfers to secure custody, or reports in secure custody	3.637	.553	3.537	.547	2.742	.563	4.120	.527	4.571	.560	9,990
ACR13: Attempt escape/UAL escape	1.938	.556	1.997	.560			2.576	.559	1.955	.551	10,378
ACR12: Segregation for disciplinary infractions	3.429	.629	3.246	.625	2.758	.618	5.629	.635	2.884	.597	9,969
ACR14: Reclassified to higher level of security	2.843	.573							5.733	.576	10,212
ACR15: Failures on conditional release	1.891	.577									10,346
Previous federal incarceration	1.924	.570	1.842	.567	1.304	.532					11,109
Past sentence – any incident			2.572	.586							11,110
Past sentence – Any admissions to admin seg	3.462	.591	3.365	.593	2.525	.580	5.539	.566			11,110

Past federal sentence, any incident, and any prior segregation are all correlated > .60. Past segregation has highest C, is the most conceptually similar to the outcome we are trying to predict, and it predicts well for Indigenous men. So I will retain that one and delete past federal sentence and any incident.

Prior convictions and prior sentence length are too highly correlated. Prior convictions has higher C and is more stable (i.e., prior offences should be more stable than sentencing practices). I will therefore retain prior convictions.

Any prior segregation was correlated with ACR14 with exactly $r = .60$. I will allow it to be retained for now.

Table C4

Reduced Criminal History Variables– 11Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
YCR02063: Previous youth convictions (down to 4 categories)					1.668	.655					10,240
Age at admission (6 categories)	0.688	.638	0.697	.636	0.662	.643	0.748	.607	0.705	.623	11,110
ACR11: Failure during community supervision	2.255	.594					3.550	.653			10,330
CRS: Number of prior convictions score (now 3 categories)	1.774	.615	1.719	.611					1.539	.586	11,059
OSR10: Prior violence (assault, robbery)	2.727	.618	2.463	.608	1.834	.552	4.348	.665			10,418
OSR26: Weapons used against prior victims	2.412	.577	2.277	.565							9,956
CRS: Incident severity remand score	1.350	.593	4.219	.594	3.512	.584	10.509	.576	4.588	.596	11,059
CRS: Involve in last 5 years	3.133	.621	4.132	.615	3.321	.610	7.526	.638	4.165	.621	11,059
ACR12: Segregation for disciplinary infractions	3.429	.629			2.758	.618					9,969
ACR14: Reclassified to higher level of security									5.733	.576	10,212
Past sentence – Any admissions to admin seg	3.462	.591	3.365	.593	2.525	.580	5.539	.566			11,110

Table C5

Initial Static Items Related to Current Offence – 11 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
OSR57: Use of power/position/authority over current victim									1.685	.550	10,405
SOH0204: Current sentence for sex or sex-related offence	0.541	.527	0.467	.535	0.446	.552					10,430
OSR60: Violence used against current victim	2.103	.588	1.965	.577			2.704	.606	3.319	.636	10,410
OSR61: Weapon used against current victim	2.183	.567	2.125	.559	2.070	.574					10,370
Sentence length – new variable with 4 categories	2.128	.658	2.093	.652	2.288	.666	2.113	.660	2.028	.668	10,706
Outstanding charges	2.220	.590	2.099	.585	1.996	.582	2.134	.565	3.121	.616	11,091
Versatility in current offence (new item)	1.711	.654	1.737	.657	1.428	.601	1.825	.669	1.752	.663	10,961
Traffic/importing drugs (current offence)	0.434	.573	0.493	.566	0.498	.533	0.347	.611	0.448	.570	10,961
ACR16: Less than 6 months since last incarceration	2.342	.574	2.231	.570	1.944	.571	2.780	.556			10,405
High profile flag	2.409	.523	2.541	.525	3.213	.520	2.220	.529	2.688	.525	11,091
Staff safety threat	4.596	.522	4.279	.520	3.403	.522	6.994	.528	9.250	.540	11,091

OSR60 and OSR61 are too highly correlated. OSR60 was retained because it has higher Cs, overall better face validity, and a higher endorsement rate (increasing power).

Table C6

Reduced Static Items Related to Current Offence– 8 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
SOH0204: Current sentence for sex or sex-related offence					0.446	.552					10,430
OSR60: Violence used against current victim	2.103	.588	1.965	.577					3.319	.636	10,410
Sentence length – new variable with 4 categories	2.128	.658	2.093	.652	2.288	.666	2.113	.660	2.028	.668	10,706
Outstanding charges	2.220	.590	2.099	.585	1.996	.582	2.134	.565	3.121	.616	11,091
Versatility in current offence (new item)	1.711	.654	1.737	.657	1.428	.601	1.825	.669	1.752	.663	10,961
Traffic/importing drugs (current offence)	0.434	.573	0.493	.566	0.498	.533	0.347	.611			10,961
ACR16: Less than 6 months since last incarceration	2.342	.574	2.231	.570	1.944	.571	2.780	.556			10,405
Staff safety threat					3.403	.522			9.250	.540	11,091

Table C7

Initial Family/Associates Items– 12 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
Gang member (from affiliation table)	2.771	.553	2.286	.539	2.843	.589			3.735	.563	11,110
FAM18_2: Perpetrated spousal violence							1.911	.548			10,168
Family violence flag	1.608	.542	1.615	.543							11,091
ASS04_2: Has many criminal friends	2.693	.621	2.679	.620	2.732	.618	1.728	.564	2.390	.605	10,027
ASS05_2: Affiliated with a gang or organized crime	2.694	.569	2.384	.555	2.897	.603					10,182
ASS06_2: Resides in high crime area							1.963	.578	1.553	.553	9,761
FAM03_2: Relations with parental figure neg. in childhood	1.711	.567	1.617	.559	1.841	.572	2.167	.594			10,322
FAM0204: Mother or father absent during childhood	1.698	.565	1.701	.564	1.779	.568					8,298
FAM01_2: Limited attachment to family unit in childhood	1.645	.553			1.669	.562	1.840	.563	1.870	.570	10,354
Relationship: past and present (combined FAM11 and 12)	1.271	.544	1.213	.537	1.365	.554	1.282	.540			8,246
FAM13: Dissatisfied with current relationship							1.728	.532	1.847	.546	8,216
ASS09: Often victimized in social relations							1.720	.558	1.614	.553	8,213

Deleted gang member because it was highly related to ASS05_2 (not quite $r = .60$ though), but they measure the same construct, and ass05_2 has better accuracy.

Fam18_2 and family_violent were too highly related, but none were retained in the same subgroup model, so I allowed both to be kept for now.

Table C8

Reduced Family/Associates Items– 10 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
FAM18_2: Perpetrated spousal violence							1.911	.548			10,168
Family violence flag	1.608	.542	1.615	.543							11,091
ASS04_2: Has many criminal friends	2.693	.621	2.679	.620	2.732	.618			2.390	.605	10,027
ASS05_2: Affiliated with a gang or organized crime	2.694	.569	2.384	.555	2.897	.603					10,182
ASS06_2: Resides in high crime area							1.963	.578			9,761
FAM03_2: Relations with parental figure neg. in childhood	1.711	.567	1.617	.559	1.841	.572	2.167	.594			10,322
FAM0204: Mother or father absent during childhood	1.698	.565	1.701	.564	1.779	.568					8,298
FAM01_2: Limited attachment to family unit in childhood									1.870	.570	10,354
Relationship: past and present (combined FAM11 and 12)			1.213	.537	1.365	.554	1.282	.540			8,246
FAM13: Dissatisfied with current relationship									1.847	.546	8,216

Table C9

Initial Substance Abuse and Mental Health Items– 17 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
ASS02_2: Associates with substance abusers	2.381	.572	2.332	.578							10,237
SUB18: Abuses drugs					2.003	.552					8,290
SUB14_2: Early age drug use	2.204	.597	2.089	.591	1.742	.557			2.348	.595	10,282
SUB17_2: Has combined the use of different drugs	1.999	.586	2.060	.589			2.412	.607	2.101	.591	10,122
CRS: Alcohol drug use score							1.810	.636			11,059
SUB05: Abuses alcohol	1.518	.552	1.316	.534	1.094	.507			0.964	.504	8,264
SUB08: Drinks to relieve stress			1.134	.512			2.474	.589			8,126
SUB01_2: Early age alcohol use	1.569	.555	1.416	.541							10,273
SUB04_2: Has combined the use of alcohol and drugs	1.717	.566	1.524	.550	1.348	.532			1.905	.576	10,176
ATT10_2: Values a substance-abusing lifestyle	1.751	.568	1.497	.549	1.632	.545	1.862	.564	1.638	.560	10,225
PER36: Diagnosed as disordered in the past	1.825	.548	1.922	.549							8,189
PER39: Prescribed medication in the past	1.586	.554			1.738	.559	2.843	.623	2.562	.607	8,047
PER41: Past hospitalization							2.956	.624			8,127
PER43: Received outpatient services in the past							2.927	.620			8,103
History of suicide attempts or self-injury (flag)	1.907	.529	1.811	.524					3.549	.578	11,091
COM02: Residence poorly maintained							2.718	.552			6,763
EMP08: Has concentration problems	1.837	.565	1.729	.557	1.753	.563	2.226	.585	2.214	.592	8,155

Sub18 was deleted – it was only included in one model, and it is too highly correlated with sub14_2, sub17_2, and aldrugs.

Sub05 was deleted – it was too highly related to sub08, sub02_2, and sub04_2, and was consistently less predictive than the others (and also seemed more vague).

SUB08 was removed from non-Indigenous men's model because it was too highly related to sub04_2 and had lower accuracy.
 Sub01_2 was removed because it was too highly related to sub04_2, and had lower accuracy.

Table C10
Reduced Substance Abuse and Mental Health Items– 10 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
ASS02_2: Associates with substance abusers	2.381	.572	2.332	.578							10,237
SUB14_2: Early age drug use	2.204	.597	2.089	.591	1.742	.557					10,282
SUB17_2: Has combined the use of different drugs	1.999	.586	2.060	.589			2.412	.607	2.101	.591	10,122
CRS: Alcohol drug use score							1.810	.636			11,059
ATT10_2: Values a substance-abusing lifestyle	1.751	.568			1.632	.545					10,225
PER36: Diagnosed as disordered in the past	1.825	.548	1.922	.549							8,189
PER39: Prescribed medication in the past					1.738	.559	2.843	.623	2.562	.607	8,047
PER43: Received outpatient services in the past							2.927	.620			8,103
History of suicide attempts or self-injury (flag)									3.549	.578	11,091
EMP08: Has concentration problems	1.837	.565	1.729	.557	1.753	.563			2.214	.592	8,155

Table C11
Initial Personality Items– 16 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
PER12: Has disregard for others	2.453	.599	2.183	.583	2.321	.574	2.259	.595	2.353	.602	8,257
PER09_2: Ability to generate choices is limited	1.796	.567	1.823	.570	1.664	.550					10,314
PER11_2: Difficulty setting realistic goals	1.893	.566	1.828	.564			2.211	.565	2.424	.579	10,243
PER15_2: Empathy skills limited	2.101	.586	2.072	.586	1.712	.565					10,170
PER08_2: Difficulty solving interpersonal problems	2.238	.582	2.046	.576			2.680	.616	2.790	.614	10,303
PER17_2: Frequently acts in aggressive manner	3.267	.644	3.103	.637	2.513	.604	4.277	.656	2.714	.620	10,260
PER23_2: Low frustration tolerance	2.697	.621	2.610	.617	2.004	.586	4.124	.666	3.086	.634	10,149
PER16_2: Displays narrow and rigid thinking	2.189	.596	2.001	.585	1.947	.582	2.532	.594	2.719	.619	10,252
PER24_2: Hostile	2.590	.589	2.598	.586	1.572	.550	4.761	.620	3.122	.622	10,273
PER27_2: Engages in thrill-seeking behaviour	2.018	.581	1.946	.578	1.987	.582			2.485	.603	10,178
PER30_2: Manipulates others to achieve goals	1.751	.570	1.696	.565			2.095	.589			10,078
ATT22_2: Attitudes support instrumental/goal-oriented violence	3.126	.638	3.000	.634	2.501	.610	3.681	.604	2.611	.614	10,253
PER14_2: Impulsive	2.932	.577	2.848	.577	2.475	.545	2.729	.595			10,357
PER21_2: Time management skills problematic	1.983	.584	1.805	.572	2.039	.586			2.292	.589	10,036
ATT23_2: Difficulty setting long-term goals	2.427	.602	2.276	.594	2.361	.586	2.339	.605	2.124	.593	10,341
ACR17: No crime free period of 1 year or more	2.616	.572	2.534	.566	2.092	.576			2.814	.558	10,397

Table C12

Reduced Personality Items– 12 Items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
PER15_2: Empathy skills limited	2.101	.586	2.072	.586							10,170
PER08_2: Difficulty solving interpersonal problems									2.790	.614	10,303
PER17_2: Frequently acts in aggressive manner	3.267	.644	3.103	.637	2.513	.604	4.277	.656			10,260
PER23_2: Low frustration tolerance	2.697	.621	2.610	.617	2.004	.586	4.124	.666			10,149
PER16_2: Displays narrow and rigid thinking	2.189	.596	2.001	.585					2.719	.619	10,252
PER24_2: Hostile	2.590	.589	2.598	.586					3.122	.622	10,273
PER27_2: Engages in thrill-seeking behaviour	2.018	.581	1.946	.578	1.987	.582					10,178
ATT22_2: Attitudes support instrumental/goal-oriented violence	3.126	.638	3.000	.634	2.501	.610	3.681	.604	2.611	.614	10,253
PER14_2: Impulsive	2.932	.577	2.848	.577			2.729	.595			10,357
PER21_2: Time management skills problematic	1.983	.584			2.039	.586					10,036
ATT23_2: Difficulty setting long-term goals	2.427	.602	2.276	.594			2.339	.605			10,341
ACR17: No crime free period of 1 year or more	2.616	.572	2.534	.566	2.092	.576			2.814	.558	10,397

Now I will look at employment variables and the remaining odds and ends.

Table C13

Initial Employment and Miscellaneous Items– 10 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
EMP13: Lacks skill area/trade/profession	2.323	.599	2.338	.602	2.303	.589					8,257
EMP17: Unemployed 90% of the time or more					2.438	.609					8,119
EMP18: Unemployed 50% of the time or more	2.407	.601	2.248	.598			3.773	.642	4.009	.585	8,020
EMP14_2: Dissatisfied with job skills									1.725	.563	9,966
EMP22_2: Has no employment history	2.658	.559	2.692	.554	2.354	.559	3.069	.571	2.966	.609	10,288
EMP19_2: Job history unstable	2.471	.595	2.270	.591			3.718	.634			10,234
Com01_2: Unstable accommodation	1.968	.581	1.947	.578	1.542	.554	2.585	.614	2.134	.594	10,256
ATT1819_2: Disrespects personal/public/commercial property (new variable)	1.695	.563	2.452		2.350	.603	2.477	.596	1.907	.561	10,365
Low_ed2	1.437	.576	1.408	.573			1.511	.593			7,955
ATT04_2: Displays negative attitudes to correctional systems	2.576	.616	2.449	.610	1.987	.583	3.849	.629	2.051	.582	10,362

EMP17 and emp18 were too highly correlated , so I deleted emp17 because it was retained in the fewest models.

Table C14

Reduced Employment and Miscellaneous Items– 8 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
EMP13: Lacks skill area/trade/profession	2.323	.599	2.338	.602	2.303	.589					8,257
EMP18: Unemployed 50% of the time or more									4.009	.585	8,020
EMP22_2: Has no employment history	2.658	.559	2.692	.554	2.354	.559	3.069	.571	2.966	.609	10,288
EMP19_2: Job history unstable	2.471	.595	2.270	.591			3.718	.634			10,234
COM01_2: Unstable accommodation	1.968	.581	1.947	.578			2.585	.614	2.134	.594	10,256
ATT1819_2: Disrespects personal/public/commercial property (new variable)	1.695	.563	2.452	.609	2.350	.603					10,365
Low_ed2			1.408	.573							7,955
ATT04_2: Displays negative attitudes to correctional systems	2.576	.616	2.449	.610	1.987	.583	3.849	.629	2.051	.582	10,362

Online Supplement D: Stage Three of Item Reduction by Component

This appendix follows the same structure as Appendix C.

Table D1

Initial Static Items – 19 items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
YCR02063: Previous youth convictions (down to 4 categories)					1.668	.655					10,240
Age at admission (6 categories)	0.688	.638	0.697	.636	0.662	.643	0.748	.607	0.705	.623	11,110
ACR11: Failure during community supervision	2.255	.594					3.550	.653			10,330
CRS: Number of prior convictions score (now 3 categories)	1.774	.615	1.719	.611					1.539	.586	11,059
OSR10: Prior violence (assault, robbery)	2.727	.618	2.463	.608	1.834	.552	4.348	.665			10,418
OSR26: Weapons used against prior victims	2.412	.577	2.277	.565							9,956
CRS: Incident severity remand score	1.350	.593	4.219	.594	3.512	.584	10.509	.576	4.588	.596	11,059
CRS: Involve in last 5 years	3.133	.621	4.132	.615	3.321	.610	7.526	.638	4.165	.621	11,059
ACR12: Segregation for disciplinary infractions	3.429	.629			2.758	.618					9,969
ACR14: Reclassified to higher level of security									5.733	.576	10,212
Past sentence – Any admissions to admin seg	3.462	.591	3.365	.593	2.525	.580	5.539	.566			11,110
SOH0204: Current sentence for sex or sex-related offence					0.446	.552					10,430
OSR60: Violence used against current victim	2.103	.588	1.965	.577					3.319	.636	10,410
Sentence length – new variable with 4 categories	2.128	.658	2.093	.652	2.288	.666	2.113	.660	2.028	.668	10,706
Outstanding charges	2.220	.590	2.099	.585	1.996	.582	2.134	.565	3.121	.616	11,091
Versatility in current offence (new item)	1.711	.654	1.737	.657	1.428	.601	1.825	.669	1.752	.663	10,961
Traffic/importing drugs (current offence)	0.434	.573	0.493	.566	0.498	.533	0.347	.611			10,961
ACR16: Less than 6 months since last incarceration	2.342	.574	2.231	.570	1.944	.571	2.780	.556			10,405
Staff safety threat					3.403	.522			9.250	.540	11,091

The age variable had too many categories (not warranted by its predictive accuracy) so I reduced it to 4 categories.

The CRS variable for involvement (in riots/assaults) in the last 5 years had 3 categories, but the highest category had only a 3% endorsement rate, so I created a dichotomous version, combining involvement in an assault versus major riot or assault with a weapon. This changed the C from .621 in overall sample to .620.

After consulting with the Working group, they were concerned about using these CRS items related to prior incidents. They felt that it was hard to get good information and had serious concerns about its applicability to female offenders – they suggested not using CRS items, wherever possible. Removing them did not dramatically affect the C value of this overall model, so I opted for that.

The flag for staff safety concerns was deleted because it was too infrequently endorsed– only 2.4% of the sample had this flag. In practice, this makes it a less useful item for the scale.

Table D2

Reduced Static Items – 13 items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
YCR02063: Previous youth convictions (down to 4 categories)					1.668	.655					10,240
Age at admission (4 categories)	1.785	.628	1.738	.627	1.903	.628	1.671	.608	1.776	.603	11,110
ACR11: Failure during community supervision							3.550	.653			10,330
CRS: Number of prior convictions score (now 3 categories)	1.774	.615	1.719	.611					1.539	.586	11,059
OSR10: Prior violence (assault, robbery)	2.727	.618	2.463	.608	1.834	.552	4.348	.665			10,418
OSR26: Weapons used against prior victims											9,956
ACR12: Segregation for disciplinary infractions	3.429	.629			2.758	.618					9,969
ACR14: Reclassified to higher level of security									5.733	.576	10,212
Past sentence – Any admissions to admin seg	3.462	.591	3.365	.593	2.525	.580	5.539	.566			11,110
OSR60: Violence used against current victim	2.103	.588	1.965	.577					3.319	.636	10,410
Sentence length – new variable with 4 categories	2.128	.658	2.093	.652	2.288	.666	2.113	.660	2.028	.668	10,706
Outstanding charges									3.121	.616	11,091
Versatility in current offence (new item)	1.711	.654	1.737	.657	1.428	.601	1.825	.669	1.752	.663	10,961

I decided to delete all the DFIA-R items – the substantially lower sample size for these items has been consistently problematic, and there is no shortage of DFIA items working well, so I do not think it is necessary to retain the R version.

Table D3

Initial Substance Abuse, Associates, Family, and Personality Items – 25 Items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
Predictor	OR	c	OR	c	OR	c	OR	c	OR	c	
SUB14_R: Regular drug use is part of the offender's lifestyle	2.580	.611	2.848	.625							2,033
ATT03_R: Takes pride in criminal exploits	2.318	.564	2.094	.554	3.030	.597					2,016
ASS09_R: Prosocial family support is limited	1.881	.575							4.750	.674	2,013
ASS10_R: Prosocial support from friends is limited	2.946	.599	2.968	.604	3.341	.587					1,967
ATT09_R: Attitudes support expressive/emotional violence	1.935	.579	2.010	.581					6.998	.722	2,043
FAM18_2: Perpetrated spousal violence							1.911	.548			10,168
Family violence flag	1.608	.542	1.615	.543							11,091
ASS04_2: Has many criminal friends	2.693	.621	2.679	.620	2.732	.618			2.390	.605	10,027
ASS05_2: Affiliated with a gang or organized crime	2.694	.569	2.384	.555	2.897	.603					10,182
ASS06_2: Resides in high crime area							1.963	.578			9,761
FAM03_2: Relations with parental figure neg. in childhood	1.711	.567	1.617	.559	1.841	.572	2.167	.594			10,322
FAM0204: Mother or father absent during childhood	1.698	.565	1.701	.564	1.779	.568					8,298
FAM01_2: Limited attachment to family unit in childhood									1.870	.570	10,354
Relationship: past and present (combined FAM11 and 12)			1.213	.537	1.365	.554	1.282	.540			8,246

Table continues on next page

Table D3 continued

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	Predictor	OR	c	OR	c
FAM13: Dissatisfied with current relationship									1.847	.546	8,216
ASS02_2: Associates with substance abusers	2.381	.572	2.332	.578							10,237
SUB14_2: Early age drug use	2.204	.597	2.089	.591	1.742	.557					10,282
SUB17_2: Has combined the use of different drugs	1.999	.586	2.060	.589			2.412	.607	2.101	.591	10,122
CRS: Alcohol drug use score							1.810	.636			11,059
ATT10_2: Values a substance-abusing lifestyle	1.751	.568			1.632	.545					10,225
PER36: Diagnosed as disordered in the past	1.825	.548	1.922	.549							8,189
PER39: Prescribed medication in the past					1.738	.559	2.843	.623	2.562	.607	8,047
PER43: Received outpatient services in the past							2.927	.620			8,103
History of suicide attempts or self-injury (flag)									3.549	.578	11,091
EMP08: Has concentration problems	1.837	.565	1.729	.557	1.753	.563			2.214	.592	8,155

Table D4

Reduced Substance Abuse, Associates, Family, and Mental Health Items – 16 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
FAM18_2: Perpetrated spousal violence							1.911	.548			10,168
Family violence flag	1.608	.542	1.615	.543							11,091
ASS04_2: Has many criminal friends	2.693	.621	2.679	.620	2.732	.618			2.390	.605	10,027
ASS05_2: Affiliated with a gang or organized crime	2.694	.569	2.384	.555	2.897	.603					10,182
FAM03_2: Relations with parental figure neg. in childhood							2.167	.594			10,322
FAM0204: Mother or father absent during childhood	1.698	.565	1.701	.564	1.779	.568					8,298
Relationship: past and present (combined FAM11 and 12)							1.282	.540			8,246
FAM13: Dissatisfied with current relationship									1.847	.546	8,216
SUB14_2: Early age drug use	2.204	.597	2.089	.591							10,282
SUB17_2: Has combined the use of different drugs	1.999	.586	2.060	.589			2.412	.607			10,122
CRS: Alcohol drug use score							1.810	.636			11,059
PER36: Diagnosed as disordered in the past	1.825	.548	1.922	.549							8,189
PER39: Prescribed medication in the past					1.738	.559			2.562	.607	8,047
PER43: Received outpatient services in the past							2.927	.620			8,103
History of suicide attempts or self-injury (flag)									3.549	.578	11,091
EMP08: Has concentration problems	1.837	.565	1.729	.557	1.753	.563			2.214	.592	8,155

Table D5

Initial Personality, Attitudes, and Employment Items – 21 Items

	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
Predictor	OR	c	OR	c	OR	c	OR	c	OR	c	
PER15_2: Empathy skills limited	2.101	.586	2.072	.586							10,170
PER08_2: Difficulty solving interpersonal problems									2.790	.614	10,303
PER17_2: Frequently acts in aggressive manner	3.267	.644	3.103	.637	2.513	.604	4.277	.656			10,260
PER23_2: Low frustration tolerance	2.697	.621	2.610	.617	2.004	.586	4.124	.666			10,149
PER16_2: Displays narrow and rigid thinking	2.189	.596	2.001	.585					2.719	.619	10,252
PER24_2: Hostile	2.590	.589	2.598	.586					3.122	.622	10,273
PER27_2: Engages in thrill-seeking behaviour	2.018	.581	1.946	.578	1.987	.582					10,178
ATT22_2: Attitudes support instrumental/goal-oriented violence	3.126	.638	3.000	.634	2.501	.610	3.681	.604	2.611	.614	10,253
PER14_2: Impulsive	2.932	.577	2.848	.577			2.729	.595			10,357
PER21_2: Time management skills problematic	1.983	.584			2.039	.586					10,036
ATT23_2: Difficulty setting long-term goals	2.427	.602	2.276	.594			2.339	.605			10,341
ACR17: No crime free period of 1 year or more	2.616	.572	2.534	.566	2.092	.576			2.814	.558	10,397
EMP13: Lacks skill area/trade/profession	2.323	.599	2.338	.602	2.303	.589					8,257
EMP18: Unemployed 50% of the time or more									4.009	.585	8,020
EMP22_2: Has no employment history	2.658	.559	2.692	.554	2.354	.559	3.069	.571	2.966	.609	10,288
EMP19_2: Job history unstable	2.471	.595	2.270	.591			3.718	.634			10,234
COM01_2: Unstable accommodation	1.968	.581	1.947	.578			2.585	.614	2.134	.594	10,256
ATT1819_2: Disrespects personal/public/commercial property (new variable)	1.695	.563	2.452	.609	2.350	.603					10,365
Low_ed2			1.408	.573							7,955
ATT04_2: Displays negative attitudes to correctional systems	2.576	.616	2.449	.610	1.987	.583	3.849	.629	2.051	.582	10,362

Table D6

Reduced Personality, Attitudes, and Employment Items – 21 Items

Predictor	Total		Non-Indigenous men		Indigenous men		Non-Indigenous women		Indigenous women		N
	OR	c	OR	c	OR	c	OR	c	OR	c	
PER08_2: Difficulty solving interpersonal problems									2.790	.614	10,303
PER17_2: Frequently acts in aggressive manner	3.267	.644	3.103	.637	2.513	.604	4.277	.656			10,260
PER23_2: Low frustration tolerance	2.697	.621	2.610	.617			4.124	.666			10,149
PER16_2: Displays narrow and rigid thinking									2.719	.619	10,252
PER24_2: Hostile	2.590	.589	2.598	.586					3.122	.622	10,273
PER27_2: Engages in thrill-seeking behaviour	2.018	.581			1.987	.582					10,178
ATT22_2: Attitudes support instrumental/goal-oriented violence	3.126	.638	3.000	.634	2.501	.610	3.681	.604			10,253
PER14_2: Impulsive	2.932	.577	2.848	.577							10,357
ATT23_2: Difficulty setting long-term goals	2.427	.602	2.276	.594							10,341
ACR17: No crime free period of 1 year or more	2.616	.572	2.534	.566	2.092	.576			2.814	.558	10,397
EMP13: Lacks skill area/trade/profession	2.323	.599	2.338	.602	2.303	.589					8,257
EMP18: Unemployed 50% of the time or more									4.009	.585	8,020
EMP22_2: Has no employment history	2.658	.559	2.692	.554	2.354	.559	3.069	.571	2.966	.609	10,288
EMP19_2: Job history unstable							3.718	.634			10,234
COM01_2: Unstable accommodation							2.585	.614			10,256
ATT1819_2: Disrespects personal/public/commercial property (new variable)	1.695	.563	2.452	.609	2.350	.603					10,365
Low_ed2			1.408	.573							7,955
ATT04_2: Displays negative attitudes to correctional systems	2.576	.616	2.449	.610			3.849	.629			10,362