Revalidation of the Nevada Parole Board Risk Assessment Instrument James Austin, Ph.D. Roger Ocker

Study Background

- The Nevada Parole Board has been using an objective risk assessment instrument since 2004.
- The instrument has undergone three prior re-validation studies that have resulted in moderate modifications to the original instrument.
- The current instrument consists of 12 factors.
- Seven factors are static factors while the remaining five are dynamic factors.
- In the most recent re-validation study all 12 factors were found to be statistically associated with recidivism rates.
- All 12 factors reflect factors used in other risk assessment instruments

Description of Re-Validation Study

- Consists of analyzing the recidivism rates (return to prison) of 3,366 prisoners released from prison either via parole or discharge between April 1, 2019 and March 31, 2020 – a 2.5 year follow-up period.
- Includes the 12 risk instrument factor scores and other background attributes.
- The return to prison rate is 24% which is lower than prior NPB studies and significantly lower than the national return to prison rate of about 45%.
- Part of the reason for the low rate has been the COVID-19 pandemic which has impacted technical violations
- The low recidivism rate has implications for a validation study as the vast majority of prisoners are not returning to prison – low amount of variance to explain.

Results

- Ten of the 12 risk factors were found to be statistically associated with recidivism rates.
- Disciplinary conducts in the past year had no statistical relationship while Classification level had an inverse relationship.
- The total points and overall risk level are statistically associated with recidivism rates.
- However, the High risk group is small and does not have statistically higher recidivism rate.
- The cut-off point for Low risk

Scoring Item	Weight	Number	Percent of Total	Percent Readmitted to Prison
Total		3,666	100.0%	24.0%
Age at First Arrest*				
24 years or older	0	651	17.8%	12.4%
20-23 years	1	684	18.7%	20.2%
19 years or younger	2	2,331	63.6%	28.4%
Prior Revocation*				
None	0	1,292	35.2%	15.3%
One or more	2	2,374	64.8%	28.8%
Employment History*				
Satisfactory full time > 1 year	0	917	25.0%	18.8%
Less than full time employment	1	2,749	75.0%	25.8%
Offense for Current or Prior Convictions*				
All others	0	912	24.9%	12.4%
Any property, robbery, forgery	2	2,754	75.1%	27.9%
History of Drug/Alcohol Abuse*				
None	0	143	3.9%	8.4%
Some use	1	179	4.9%	17.3%
Frequent abuse	2	3,344	91.2%	25.0%
Gender*				
Female	-1	596	16.3%	19.1%
Male	0	3,070	83.7%	25.0%
Number of Prior Felony Convictions*		-		
Less than 2	0	2,113	57.6%	21.9%
2 or more	2	1,553	42.4%	26.9%

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2 or more	2	1,553	42.4%	26.9%
Current Age *				
59 or older	-2	168	4.6%	8.9%
40-58	-1	1,130	30.8%	20.5%
33-39	0	878	23.9%	24.8%
23-32	1	1,289	35.2%	27.2%
Under 23	2	201	5.5%	32.3%
Active Gang*				
No	0	3,166	86.4%	22.8%
Yes	2	500	13.6%	31.4%
DOC certified edu/voc/treat program*				
Yes	-1	1,330	36.3%	20.5%
No	0	2,336	63.7%	26.0%

Scoring Item	Weight	Number	Percent of Total	Percent Readmitted to Prison
Total		3,666	100.0%	24.0%
Misconducts in Past Year				
No Misconducts	0	2,524	68.8%	24.0%
One or more	2	1,142	31.2%	24.0%
Current Custody Level*				
Minimum or medium	0	3,532	96.3%	24.4%
Close/max or disciplinary segregation	2	134	3.7%	14.2%

Table 6.					
New Instrument Releases b	y Total Score and Ris	k Level			

Total Assessment Score	Risk Level	Number	Percent of Total	Percent Readmitted to Prison		
Total		3,666	100.0%	24.0%		
-3		9	0.2%	0.0%		
-2		12	0.3%	0.0%		
-1		21	0.6%	0.0%		
0]	36	1.0%	0.0%		
1	Low	61	1.7%	1.6%		
2		91	2.5%	2.2%		
3] _	130	3.5%	10.0%		
4]	141	3.8%	8.5%		
5]	211	5.8%	11.8%		
6]	263	7.2%	15.6%		
<mark>7</mark>		<mark>353</mark>	<mark>9.6%</mark>	<mark>22.1%</mark>		
Low		1,328	36.2%	13.0%		
8		393	10.7%	24.4%		
9	e	521	14.2%	30.9%		
10	Moderate	483	13.2%	28.6%		
11	po	<mark>386</mark>	10.5%	<mark>32.1%</mark>		
<mark>12</mark>	Σ	<mark>302</mark>	<mark>8.2%</mark>	<mark>35.8%</mark>		
<mark>13</mark>		173	<mark>4.7%</mark>	<mark>37.6%</mark>		
Moderate		2,258	61.6%	30.6%		
14	High	42	1.1%	23.8%		
15		21	0.6%	9.5%		
16+		16	0.5%	30.8%		
High		79	2.2%	21.0%		
Avg. Sc	Avg. Score 8.2; Pearson Correlation .212; p< .001					

Options

- Option #1: Delete the two dynamic factors and adjust the cut-off points.
- Option #2: Retain the two dynamic factors but modify them as follows:

1. Adjust the Current Classification level so that prisoners classified as Minimum receive a score of -1 and all others a score of zero; and,

2. Adjust the Misconducts in the past year score so that prisoners with no misconducts receive a score of -1 and all others a score of zero.

Redefine "High" risk as "Higher" risk given the relatively low recidivism rates.

Total Percent Percent of Cut-off Points Readmitted Number Assessment Total to Prison Score 5,717 100.0% 24.0% Total -4 0.0% 1 0.0% -3 10 0.3% 0.0% -2 13 0.4% 0.0% -1 24 0.7% 0.0% 0 1.3% 0.0% 49 Low 66 1 1.8% 1.5% 102 2.8% 2 3.9% 3 137 3.7% 8.8% 7.6% 4 171 4.7% 5 258 7.0% 11.2% Low Total Avg. Score=3.0 831 22.7% 7.1% 8.3% 306 17.3% 6 Mod. 7 432 11.8% 22.9% 8 482 13.1% 27.4% Moderate Total Avg. Score=7.1 33.3% 23.3% 1,220 9 613 16.7% 33.3% 10 497 13.6% 31.0% Higher 290 7.9% 36.6% 11 12 144 3.9% 34.0% 13 56 32.4% 1.5% 14 15 40.0% 0.4% Higher Total Avg. Score=10.1 44.1% 1,615 33.3% Average Score 7.5 Pearson Correlation .238, Significant at the .01 level

Table 7. Revised Total Score and Risk Level

Figure 1. Current vs. Option #1 Recidivism Rates

