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Evidence & Innovation in Criminal Justice Psychology

**Intimate Partner Violence Risk
Assessment in a High Risk Sample of
Men Undergoing Threat Assessment**

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Ennis, Hargreaves, & Gulayets, 2015 /JAM

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Ontario Domestic Assault Risk Assessment: Predicting violent recidivism among high-risk intimate partner violence offenders

Lynden P. Perrault, N. Zoe Hilton, & Anna T. Pham

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What is the ODARA?

The Ontario Domestic Assault Risk Assessment (ODARA)

- Risk assessment measure for male-to-female intimate partner violence
- Contains 13 dichotomized items (i.e., present or absent)
- Coded from case files (and/or victim interview)



TABLE B.1
Normative Data for the Distribution of Ontario Domestic Assault Risk
Assessment (ODARA) Scores in a Population of Men With a Police
Occurrence Report of Assault Against a Female Domestic Partner

ODARA score	Recidivism (%)	Percentage in this range of scores	Percentage scoring lower	Percentage scoring higher
0	7	9	0	91
1	17	17	9	74
2	22	21	26	53
3	34	20	47	33
4	39	13	67	20
5-6	53	14	80	6
7-13	74	6	94	0

Note. Recidivism is defined as a new assault against a female domestic partner identified by an occurrence report in police records or a charge in the criminal record during an average follow-up of 4.9 years after the index assault. Data from Hilton et al. (2004); Hilton and Harris (2008b); and Hilton, Harris, Rice, Houghton, and Elve (2008).

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Empirical Support for the ODARA

Empirical Support for the ODARA

- Risk assessment measures typically assessed with statistic called the Area Under the Curve (AUC)
- Very common explanation: "An area of .77 indicates a probability of .77 that a randomly selected recidivist would have a higher score than a randomly selected nonrecidivist." (Hilton et al., 2004, p. 272)



Empirical Support for the ODARA

Hilton et al. (2004)

- ODARA development study
- IPV recidivism for original and cross-validation samples
- AUCs = .77 and .72, respectively

Messing and Thaller (2013)

- Meta-analysis including multiple IPV measures
- IPV recidivism
- Average weighted AUC = .66

Jung and Buro (2017)

- ODARA scores from large Edmonton sample
- IPV and violent convictions
- AUCs = .70 and .71, respectively

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The Current Study

The Current Study

- Conducted at the Integrated Threat and Risk Assessment Centre (ITRAC) in Edmonton, Alberta, Canada
 - Men charged for IPV and referred by police to ITRAC for threat assessment
- Primary aim:
 - Predictive validity of the ODARA for **violent recidivism** in high-risk IPV offender sample (not IPV recidivism)

Methods

- ODARA scored by trained research assistants
 - Adequate interrater reliability (ICC = .85) and internal consistency (Cronbach's α = .92)
- File information included provincial and federal criminal records, police reports, correctional files, and mental health evaluations
- Recidivism (charges and convictions) coded by different research assistants who were masked to scoring of risk measures

Methods

- Eligibility criteria:
 - Male-to-female intimate partner violence
 - Identifiable index offence from 2010-2015
- **Index offence = most recently known incident** wherein the male either perpetrated violence against a female intimate partner or made a credible threat of death with a weapon

Sample

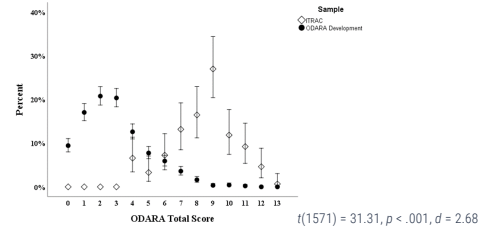
- Obtained **152 cases of IPV** with ODARA scores
 - Ages ranged from 18 to 65 ($M = 35.36$)
 - Majority Caucasian (70%), many unemployed (43%)
- Follow-up period of ~1.5 to ~8 years ($M = 4.21$, $SD = 1.89$)
- Reoffending period of 0.12 to 8.22 years ($M = 2.77$, $SD = 1.89$)
 - 53% had at least one violent reoffence

Preliminary Research Question

- Is the sample obtained at ITRAC high-risk?
- Compare to the sample used to develop the ODARA ($N = 1421$; see Hilton et al., 2004; Hilton, Harris, & Rice, 2010)

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Results



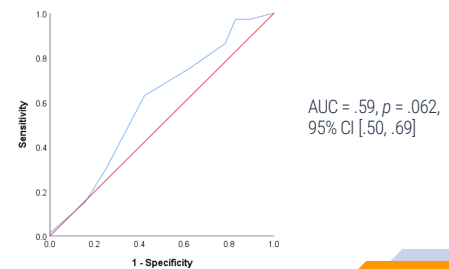
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Main Research Question

- Does the ODARA predict subsequent non-intimate partner violent offending for high-risk IPV offenders?
- AUC analysis for ITRAC data **reduced to 137** due to missing data and exclusion criteria

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Results



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Summary

- The ITRAC sample is higher risk, but the ODARA did not significantly predict violent recidivism
- Suggests the ODARA needs to be calibrated to accommodate high-risk samples when used to predict violent recidivism

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Limitations and Future Directions

Limitations

- Small sample size
- Limited dataset (only violent recidivism)
- Limited applicability to field settings

Future Directions

- Identify variables that can differentiate high-risk recidivists and non-recidivists in policing context
- Conduct research in applied contexts

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Evaluating the Predictive Effectiveness of the Spousal Assault Risk Assessment Guide Version 3

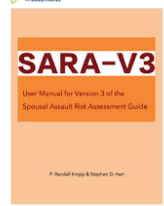
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SPJ APPROACH: SARA-V3

- Spousal Assault Risk Assessment Scale, Version 3 (SARA-V3)
 - ▷ Structured Professional Judgement (SPJ) tool
 - ▷ 24-item measure of IPV risk
 - ▷ Three domains: *Nature of IPV, Perpetrator Risk Factors, and Victim Vulnerabilities*



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SPJ APPROACH: SARA-V3

- Nature of IPV (8 items)
 - ▷ Distorted attitudes re: IPV, IPV-related criminal history, severity/chronicity/escalation of IPV, harm (e.g., sexual, threats)
- Perpetrator Risk Factors (10 items)
 - ▷ Mental health/substance abuse, relationships, criminal hx (non-IPV)
- Victim Vulnerabilities (6 items; new to version 3)
 - ▷ Attitudes, mental health/substance abuse, barriers



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SARA-V3 VERSUS SARA-V2

- SARA-V2 has demonstrated good predictive validity, and is widely used in IPV cases (Belfrage et al., 2012; Messing & Thaller, 2013; Nicholls et al., 2013)
- V3 is different than V2 because of the introduction of the temporal coding of the three domains
 - ▷ "Past" = longer than 1 year before assessment date
 - ▷ "Recent" = within 1 year of the assessment date

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CURRENT STUDY

- SARA-V3, as yet, has no research examining its effectiveness as a risk prediction instrument
- Examine the unique predictive validity of the "past" and "recent" domains of the SARA-V3
 - ▷ Area Under the Curve (AUC) analyses

METHODS

- Sample
 - ▷ 152 high-risk IPV offenders referred to ITRAC by police for threat assessment, had to have SARA scores
- SARA Inter-rater reliability → **high**
 - ▷ Past quantitative scale: ICC = .86; Cronbach's α = .93
 - ▷ Recent quantitative scale: ICC = .85; Cronbach's α = .92


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METHODS

- Coding – SARA items coded on a 3-point scale
 - 0 = not present or unknown
 - 1 = Partially present
 - 2 = Present
- Each item coded twice: once for 'past' and once for 'recent' scale
 - Total score out of 48 per scale

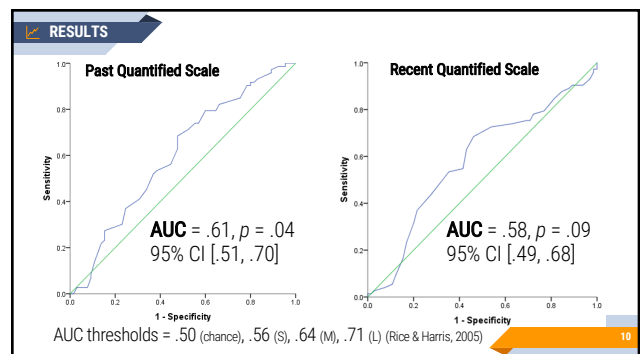
METHODS

- Past and Recent Scales
 - Authors argue against quantifying the SARA (Kropp & Hart, 2015)
 - But:* research with the SARA-V2 demonstrates that this is effective (Jung & Buro, 2017)



METHODS

- Statistical Analysis: Area Under the Curve (AUC)
 - Estimate of the probability that the SARA-V3 will rank a randomly selected high-risk IPV offender higher (i.e., as higher risk) than a randomly selected low-risk IPV offender
 - Ideal measure for assessing predictive accuracy in forensic psychology (Rice & Harris, 2005)



DISCUSSION




What did we learn?
 Only the past distinction of the SARA-V3 may be effective at predicting violent recidivism



What does that mean?
 New format of the SARA-V3 may need to be revised or consider alternatives
 More research on V3 necessary

LIMITATIONS & FUTURE DIRECTIONS



- Limitations**
 - Incomplete IPV recidivism coding at the time this study was conducted
 - Archival data → past coding may have been more complete than recent
 - Research assistant coding vs field users' coding (Edens & Boccacini, 2017)
- Future directions**
 - Compare it with the SARA-V2
 - Replicate this study with another IPV sample (high-risk and others)
 - Examine the predictive validity/relevance of the three domains

 TAKE-HOME MESSAGE

- SARA-V3 did not perform very well for predicting violent recidivism in a predominantly high-risk sample of IPV offenders
 - More research on SARA-V3 necessary
- Further research examining IPV recidivism risk is also important
 - If continually poor → need for revision, or return to using the SARA-V2
 - Use SARA-V3 as information tool for needs assessment/guidance

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Thank You!

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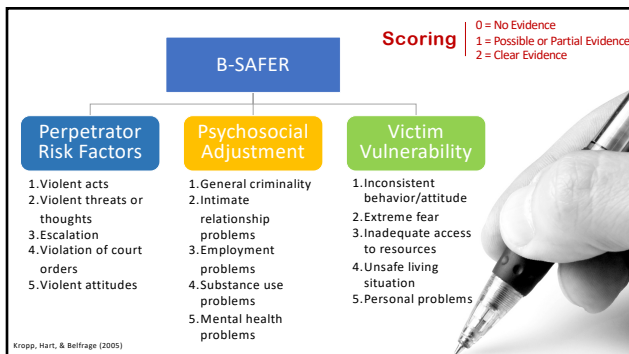
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Accuracy of the B-SAFER to Assess Risk with High Risk Intimate Partner Violence Perpetrators

Sandy Jung, Ph.D., R.Psych. Anna Pham, M.A. Liam Ennis, Ph.D., R.Psych.

- Structured professional judgment schemes (e.g., HCR-20 v3, SARA, RSVP, B-SAFER)
- Emphasis on clinical judgment rather than quantifying
- From SARA, created B-SAFER for police
- Limited research (e.g., SVR-20, RSVP, B-SAFER)



Brief Spousal Assault Form for the Evaluation of Risk (B-SAFER)

Storey, Kropp, Hart, Belfrage, & Strand (2014)

AUC = .70 [64-.76]; n = 249

Loinaz (2014)

AUC = .76; n = 40

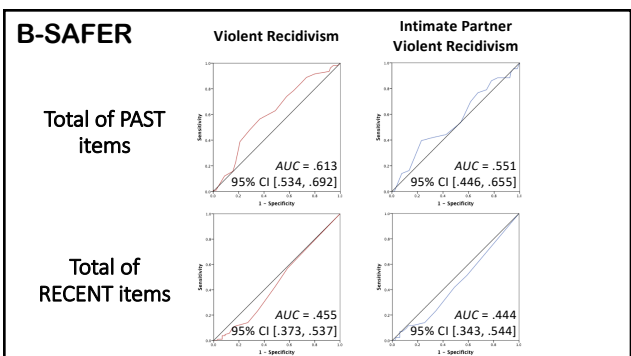
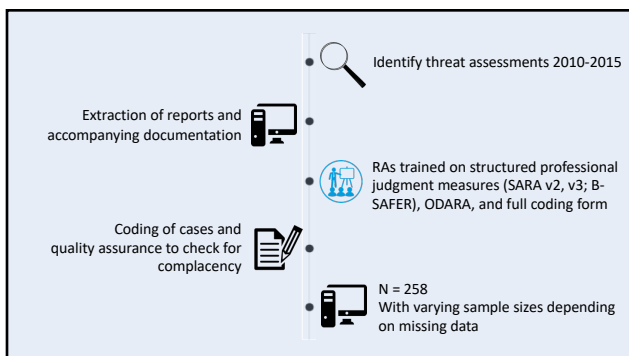
Gerbrandij, Rosenfeld, Nijdam-Jones, & Galietta (2018)

AUC = .55 [.40-.71]; n = 158

Svalin, Mellgren, Levander, & Levander (2018)

AUC = .57; n = 301

Other studies:
(not examine predictive validity) Au, Cheung, Kropp, Yuk-chung, Lam, & Sung (2008)
(summary ratings) Belfrage & Strand (2012)



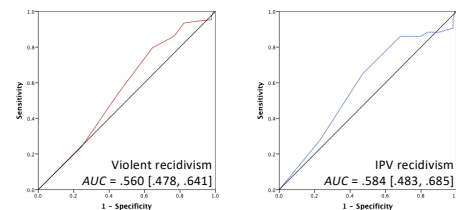
B-SAFER Perpetrator Risk Factors Subscale

Perpetrator Risk Factors	Past	Recent (4 weeks)
Violent acts	2.8% 2.4% 94.7%	93.5% 0% 6.5%
Violent threats or thoughts	9.3% 8.9% 81.7%	93.1% 2.4% 4.5%
Escalation	18.7% 33.7% 47.6%	96.3% 1.2% 2.4%
Violation of court orders	21.1% 2.0% 76.8%	89.0% 3.3% 7.8%
Violent attitudes	9.8% 30.9% 59.3%	92.7% 4.1% 3.3%

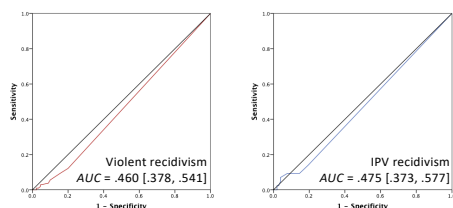
N = 246

% for No Evidence, Possible or Partial, Clear Evidence

PAST items: Perpetrator Risk Factors Subscale



RECENT items: Perpetrator Risk Factors Subscale

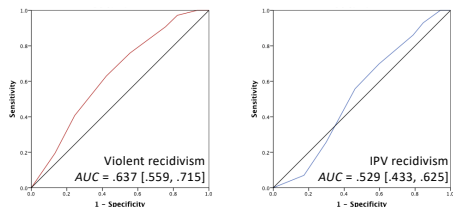


B-SAFER Psychosocial Adjustment Subscale

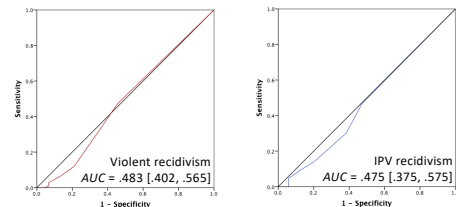
Psychosocial Adjustment	Past	Recent (4 weeks)
General criminality	32.5% 24.8% 42.7%	96.7% 1.2% 2.0%
Intimate relationship problems	1.6% 7.7% 90.7%	84.1% 6.9% 8.9%
Employment problems	19.5% 25.6% 54.9%	67.5% 7.7% 24.8%
Substance use problems	8.9% 21.1% 69.9%	93.5% 4.5% 2.0%
Mental health problems	16.7% 32.5% 50.8%	84.6% 12.2% 3.3%

N = 246 | % for No Evidence, Possible or Partial, Clear Evidence

PAST items: Psychosocial Adjustment Subscale



RECENT items: Psychosocial Adjustment Subscale

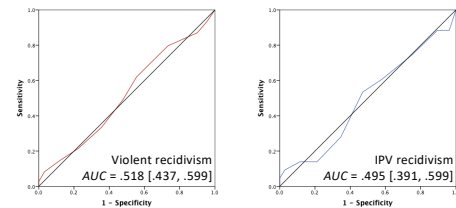


B-SAFER Victim Vulnerability Subscale

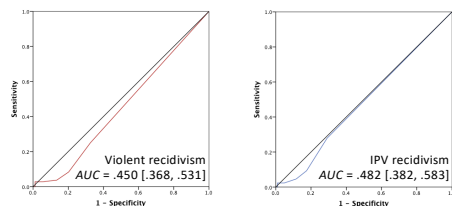
Victim Vulnerability Factors	Past	Recent (4 weeks)
Inconsistent behavior/attitude	16.7% 21.5% 61.8%	89.0% 6.9% 4.1%
Extreme fear	36.6% 31.7% 31.7%	89.0% 5.3% 5.7%
Inadequate access to resources	54.5% 31.7% 13.8%	95.1% 4.1% 0.8%
Unsafe living situation	49.2% 26.8% 24.0%	89.4% 6.5% 4.1%
Personal problems	57.7% 15.9% 26.4%	91.5% 6.1% 2.4%

N = 245-246 | % for No Evidence, Possible or Partial, Clear Evidence

PAST items: Victim Vulnerability Subscale



RECENT items: Victim Vulnerability Subscale



Conclusions

- Quantifying B-SAFER items only predicts violent recidivism
- Past psychosocial adjustment subscale (> 4 weeks) predicts violent reoffending only
 - Consistent with routine sample research
- Weak use with high-risk sample
- Not associated with IPV reoffending
- Recency of 4 weeks could not fully be examined

Future Directions

- Need to examine utility of B-SAFER in Canadian context
 - immediately post-index
 - requires recent interview info
 - file review is not suitable
- Question predictive validity
 - all 3 subscales
 - for IPV reoffending specifically
- Move from assumption all SPJs created the same
 - separately examine SPJ measures
 - independently (avoid bias)
- Examine incremental validity

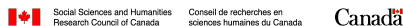
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