



Evaluator struggles: Risk aversion, impotence, and decision making



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Influence of case details and evaluator differences in SVP cases



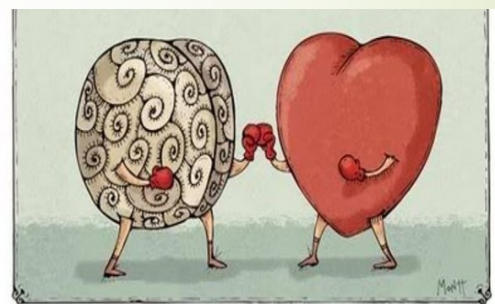
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How do evaluators make decisions?



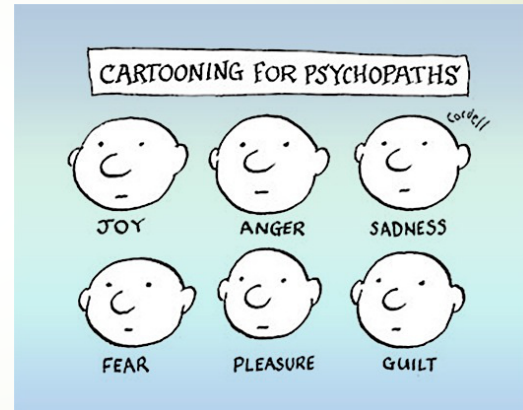
Risk assessments and unstructured decision making

- Standardized assessments are strongest predictors (*Guy, 2008; Hanson & Morton-Bourgon, 2009*)
- But these are not used in isolation (*Vrieze & Grove, 2009*)
- Static99R may have some (49%) or a lot (42%) of influence (*Chevalier, Boccaccini, Murrie, & Varela, 2015*).
- Clinical override
 - Often used to increase risk for sexual offenders
 - Leads to decrease in predictive validity (*Storey, Watt, Jackson, & Hart, 2012; Wormith, Hogg, & Guzzo, 2012*)



Addition of Psychopathy

- Predictive of recidivism (*Hanson & Morton-Bourgon, 2005*)
- Characteristics of psychopathy are related to sexual aggression (*Malamuth, 2003*)
- No association (*Barbaree, Seto, Langon, & Peacock, 2001; Langstrom & Grann, 2000; Murrie, Boccaccini, Caperton, & Rufino, 2011*)



Dynamic Duo



- PCL-R (Factor 2 – Facet 4) (*Hawes et al., 2013*)
 - Research ($d = .44$) versus Clinical ($d = .28$)
 - Sexual deviance & Psychopathy - OR: 2.80 – 3.21
- No additional prediction to sexual recidivism after Static99R (*Looman, Morphet, & Abracen, 2012*)
- Not clear this is being applied appropriately in clinical practice (*Boccaccini et al., 2015*)

What about Sadism?

- Sadism is associated with sexual violence and severity of violence (*e.g.*, Robertson & Knight, 2014)
- Phallometric index and level of violence during index, but not DSM diagnosis predict sexual recidivism (Kingston, Seto, Firestone, & Bradford, 2010)
 - But do not incrementally add to prediction after accounting for actuarial risk results
- Sadism diagnosis – 4.2x more likely to sexually reoffend (after controlling for Static99R; Kingston *et al.*, 2015)
- Meta-analysis – 2.3x more likely to sexually reoffend (Eher *et al.*, 2015)



Is there an “evaluator effect”?

- Field studies (Murrie *et al.*, 2008; Murrie *et al.*, 2009)
- Experimental study (Murrie *et al.*, 2013)
- Evaluator differences in scoring (Boccaccini *et al.*, 2014; Chevalier *et al.*, 2015; Miller *et al.*, 2011; Murrie & Warren, 2005)
- Once identified - may seek and interpret data that is biased towards the side they work for (Murrie & Boccaccini, 2015; Neal & Grisso, 2014)

ADVERSARIAL ALLEGIANCE

The tendency for forensic evaluators to form opinions in a manner that better supports the party that retains them

Florid Case Details

- Exploratory:
 - Presence of vivid or “yuck” details
 - Preliminary work on extraneous case details
(Zapf and colleagues)

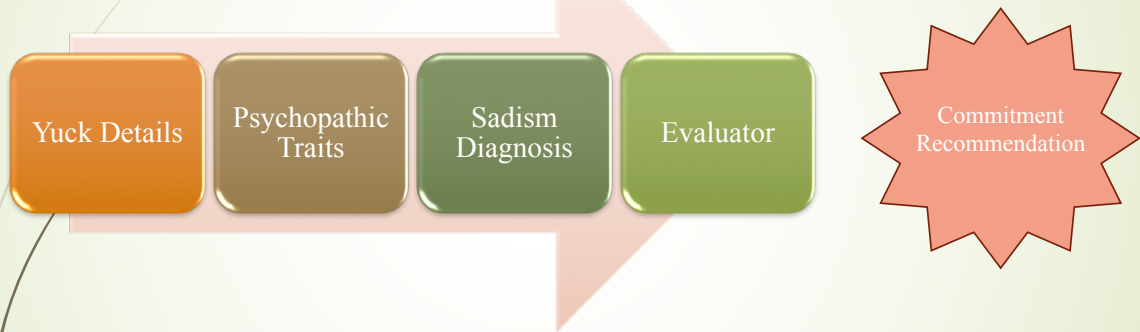


What information do evaluators use to evaluate risk and make decisions about commitment: Two parts

- 1. Vignettes (with varying levels of yuck factors, presence of Sadism, or psychopathic traits) rated anonymously by professionals in the field
- 2. Followed up by SVP data from DHS state evaluators in Wisconsin



Part 1: Vignettes



Participants

- N = 158 respondents to an online survey
 - **Final n = 94 completed all case vignettes**
 - 88 (94%) worked with an adult population
 - 78 (83%) completed sexual risk assessments as part of job duties
 - 67 (71%) United States; 18 (19% United Kingdom; 9 (10%) Canada
 - Within United States – participants reported working across 34 different states (Northeast, Midwest, South, West)

Measures

- 8 case vignettes
 - **2 Outcome Ratings**
 - Categorize patient's current risk level for sexual recidivism

1	2	3	4	5	6	7	8	9
Low Risk			Medium Risk			High Risk		

- Rate how likely they would be to recommend civil commitment under provisions of SVP law.
 - 1 (*Highly Unlikely*); 2 (*Somewhat Unlikely*); 3 (*Somewhat Likely*); 4 (*Highly Likely*)

Measures

- Case details varied in 2X2X2 factorial design
 - Level of victim distress (Yuck factor)
 - Psychopathic traits (32 versus 22)
 - Diagnosis of Sadism (Present versus not)

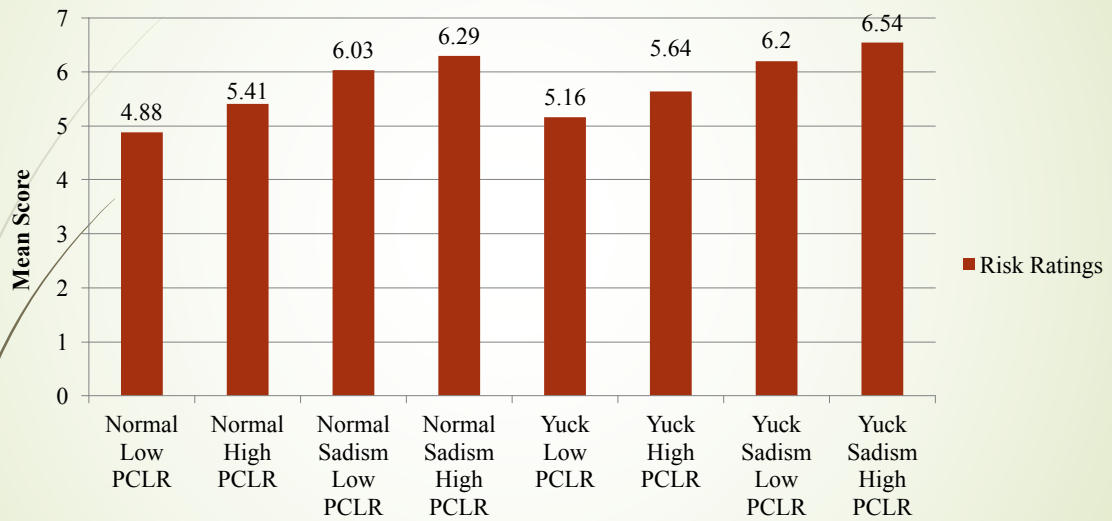
2 x 2 x 2 Factorial Design

	Offense Normal	Offense Yuck
PCLR Low (22)	Offense Normal + No SADISM+ PCLR Low	Offense Yuck +No SADISM+ PCLR Low
PCLR High (32)	Offense Normal + No SADISM+ PCLR High	Offense Yuck +No SADISM+ PCLR High

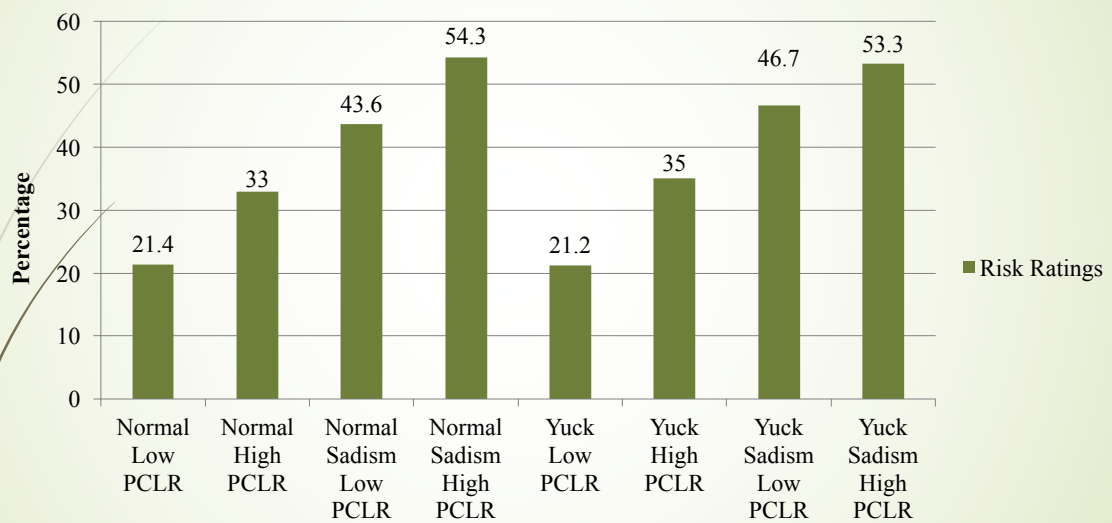
Mr. Jones

- 48 years old
- Divorced, Caucasian Male
- Being evaluated for civil commitment
- Static99R score of 3 (low/moderate)
- Current prison sentence completed for Aggravated Rape & Assault and battery with a Dangerous Weapon (knife).
- Current offense involved an adult female stranger
- One previous sex offense with an adult female stranger – convicted of Aggravated Rape
- Dynamic risk factors include sexual preoccupation, feeling aggrieved, and not thinking of consequences of actions
- Some capacity for healthy intimate relationships
- No evidence of sexual interest in children

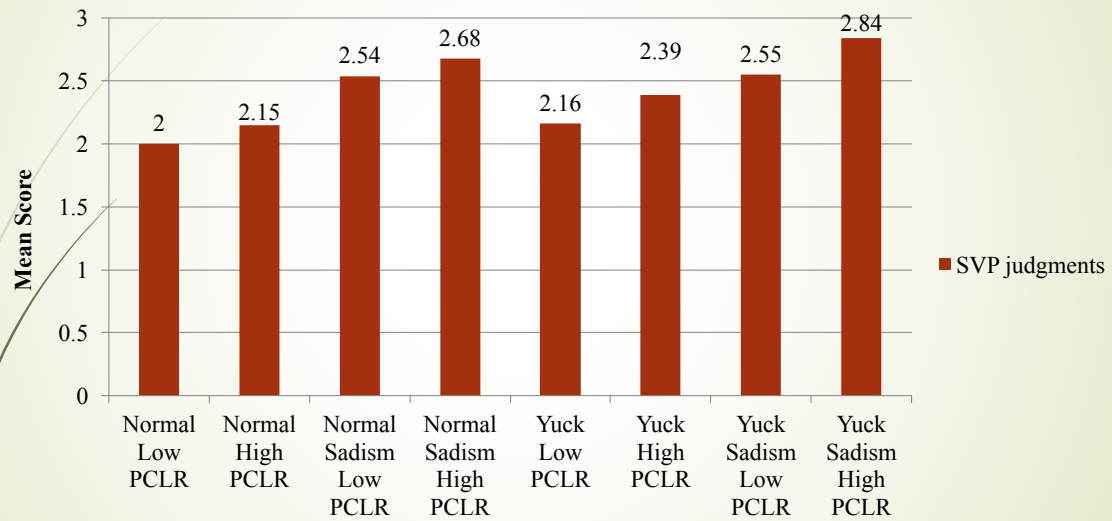
Descriptives: Risk Ratings



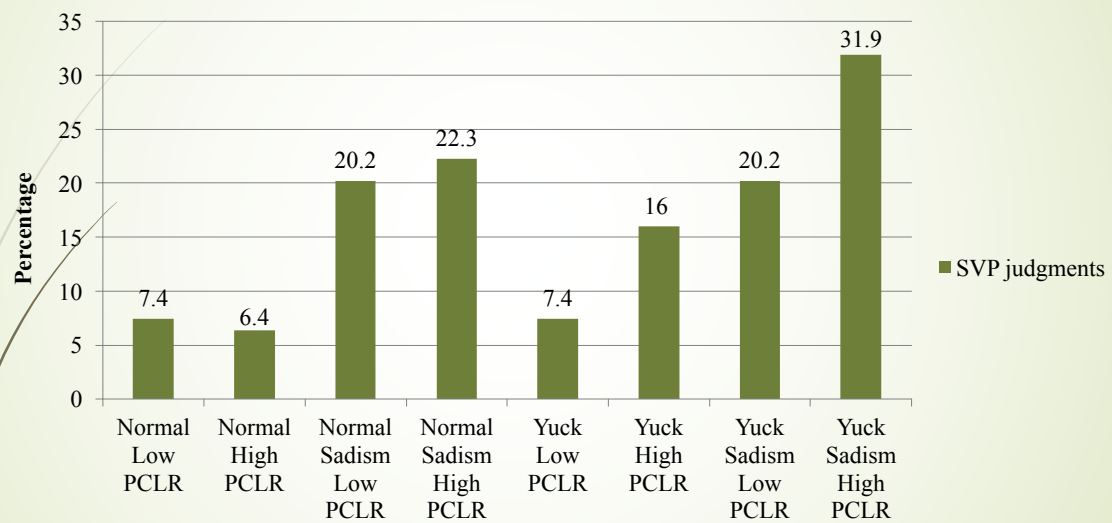
High Risk (7-9)



Descriptives: Commitment Judgments



Highly Likely to Commit (4)



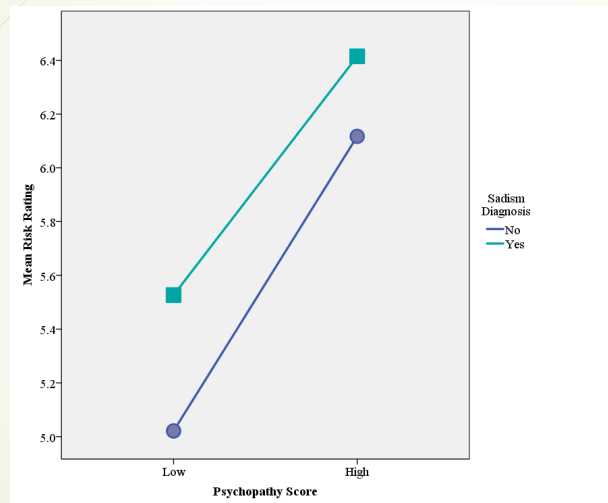
Correlations between risk ratings and commitment judgments within vignettes

Vignette	Pearson <i>r</i>
Normal Low PCLR	.77
Normal High PCLR	.69
Normal Sadism Low PCLR	.68
Normal Sadism High PCLR	.63
Yuck Low PCLR	.71
Yuck High PCLR	.65
Yuck Sadism Low PCLR	.71
Yuck Sadism High PCLR	.65

ANOVA Results: Effects of yuck, psychopathy, and Sadism on risk ratings

	Multivariate <i>F</i> Test	Sig
Yuck Factor	$F(1, 93) = 12.31$	$p = .001$
Psychopathy	$F(1, 93) = 138.63$	$p < .001$
Sadism	$F(1, 93) = 32.49$	$p < .001$
Yuck * PCLR	$F(1, 93) = .15$	$p = .70$
Yuck * Sadism	$F(1, 93) = .04$	$p = .85$
PCLR * Sadism	$F(1, 93) = 4.27$	$p = .04$
Yuck * PCLR * Sadism	$F(1, 93) = .66$	$p = .42$

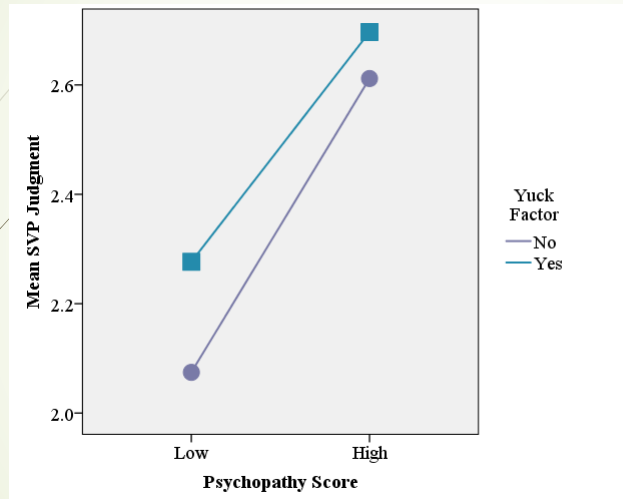
Interaction: Psychopathy * Sadism Diagnosis



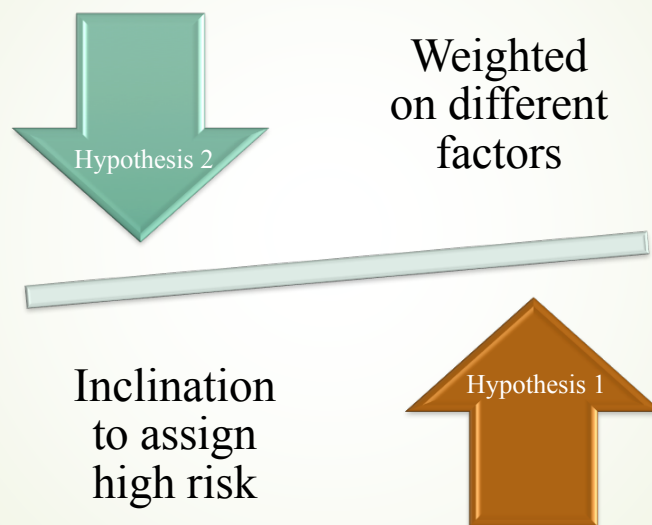
ANOVA Results: Effects of yuck, psychopathy, and Sadism on commitment judgments

	Multivariate <i>F</i> Test	Sig
Yuck Factor	$F(1, 93) = 9.92$	$p = .002$
Psychopathy	$F(1, 93) = 102.31$	$p = .002$
Sadism	$F(1, 93) = 22.99$	$p < .001$
Yuck * PCLR	$F(1, 93) = 4.75$	$p = .03$
Yuck * Sadism	$F(1, 93) = 2.98$	$p = .09$
PCLR * Sadism	$F(1, 93) = .13$	$p = .72$
Yuck * PCLR * Sadism	$F(1, 93) = .30$	$p = .58$

Interaction: Yuck * Psychopathy



Examining the Evaluator Effect



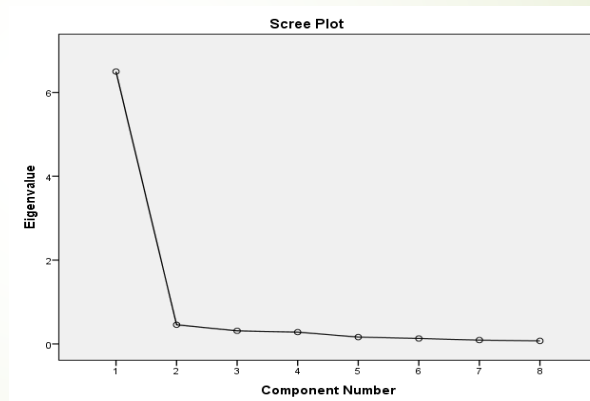
Results: Examining the evaluator effect

- ▀ Correlations between risk ratings across vignettes
 - ▀ $r = .66 - .87, p < .001$
- ▀ Correlations between commitment ratings across vignettes
 - ▀ $r = .55 - .82, p < .001$

Results: Examining the evaluator effect

- ▀ Principal Components Analysis of risk ratings
 - ▀ Resulted in 1 Factor

Vignette 1	.85
Vignette 2	.91
Vignette 3	.92
Vignette 4	.92
Vignette 5	.88
Vignette 6	.92
Vignette 7	.90
Vignette 8	.91

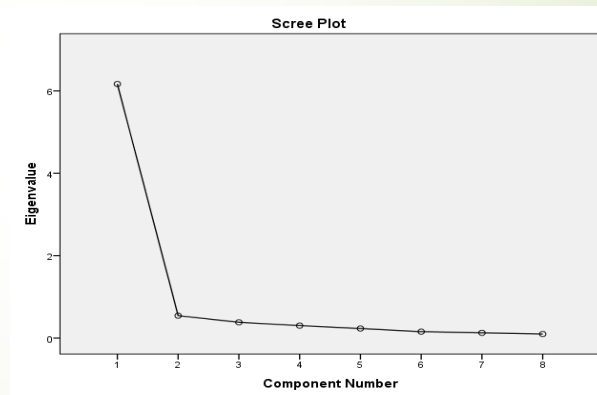


Results: Examining the evaluator effect

■ Principal Components Analysis of commitment judgments

■ Resulted in 1 Factor

Vignette 1	.81
Vignette 2	.91
Vignette 3	.91
Vignette 4	.87
Vignette 5	.89
Vignette 6	.91
Vignette 7	.84
Vignette 8	.88



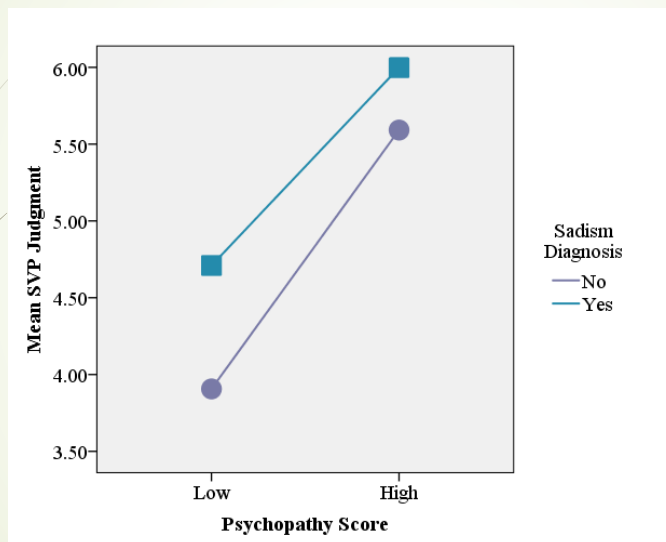
Parsing out the evaluator effect: Risk ratings

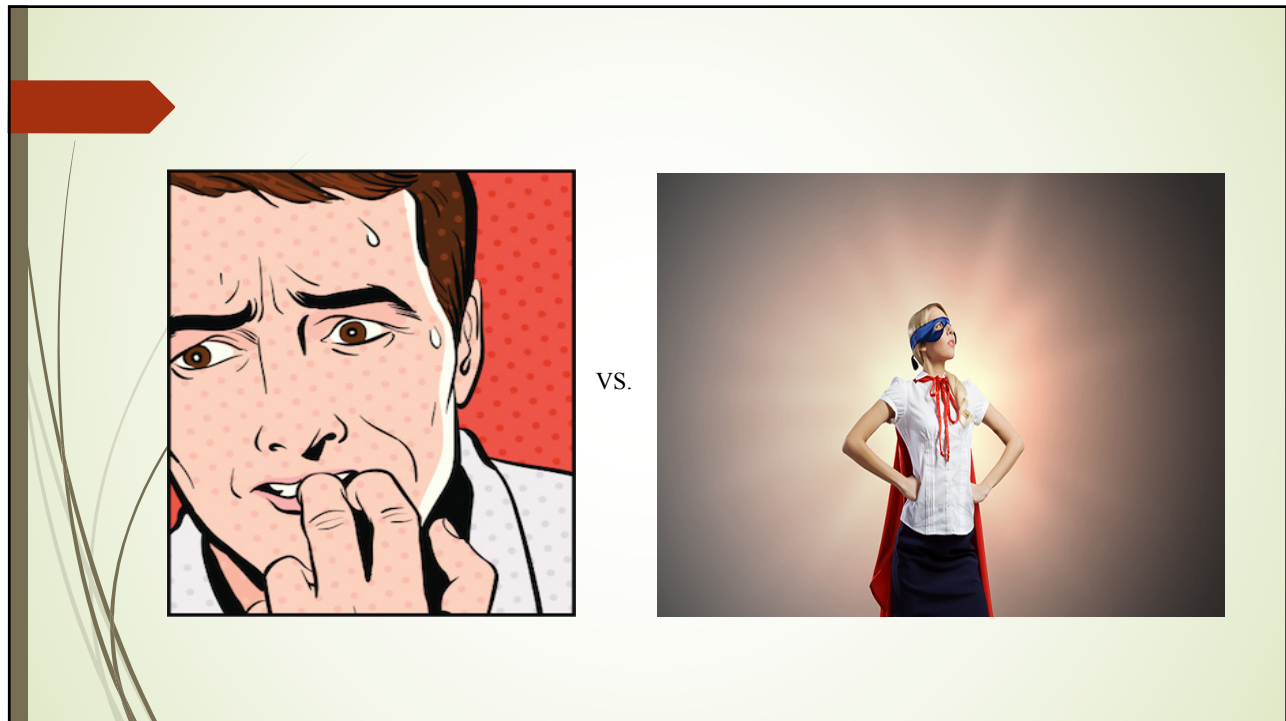
	Multivariate <i>F</i> Test	Sig
Yuck Factor	$F(1, 93) = 13.62$	$p < .001$
Psychopathy	$F(1, 93) = 216.19$	$p < .001$
Sadism	$F(1, 93) = 36.04$	$p < .001$
Yuck * PCLR	$F(1, 93) = .48$	$p = .49$
Yuck * Sadism	$F(1, 93) = .00$	$p = .99$
PCLR * Sadism	$F(1, 93) = 3.59$	$p = .06$
Yuck * PCLR* Sadism	$F(1, 93) = .25$	$p = .62$

Parsing out the evaluator effect: Commitment judgments

	Multivariate <i>F</i> Test	Sig
Yuck Factor	$F(1, 93) = 9.14$	$p = .003$
Psychopathy	$F(1, 93) = 116.28$	$p = .003$
Sadism	$F(1, 93) = 23.26$	$p < .001$
Yuck * PCLR	$F(1, 93) = .01$	$p = .94$
Yuck * Sadism	$F(1, 93) = .58$	$p = .45$
PCLR * Sadism	$F(1, 93) = 5.24$	$p = .02$
Yuck * PCLR * Sadism	$F(1, 93) = 1.14$	$p = .29$

Interaction: Psychopathy * Sadism Diagnosis





Part 2: Evaluator Differences: SVP data from DHS state evaluators in Wisconsin

980.07 Evaluations in Wisconsin

- ▀ $N = 354$ 980.07 evaluations were conducted by ($n = 13$) clinicians during the calendar year of 2016
- ▀ **Patient Sample from SRSTC**
 - ▀ Age: $M = 52.64$ ($SD = 11.10$)
 - ▀ Static99R: $M = 5.28$ ($SD = 1.73$)
 - ▀ PCLR: $M = 23.50$ ($SD = 5.75$)

What predicts commitment recommendation?

Treatment

Assessment
Instruments

Diagnoses

Evaluator

What predicts commitment recommendation?

Pre-Treatment (n = 37)
In Treatment (n = 272)
On SR (n = 45)

Static99R Score
PCL-R Score

Pedophilia
Sadism
Major Mental Illness

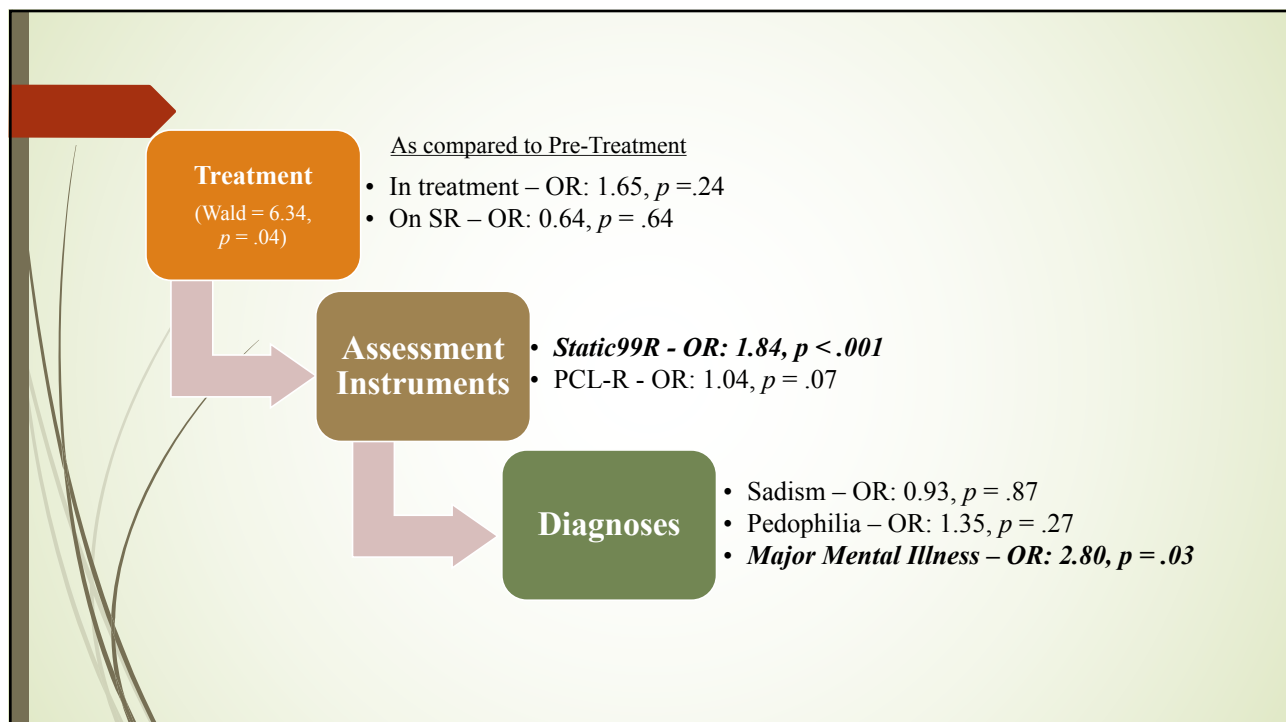
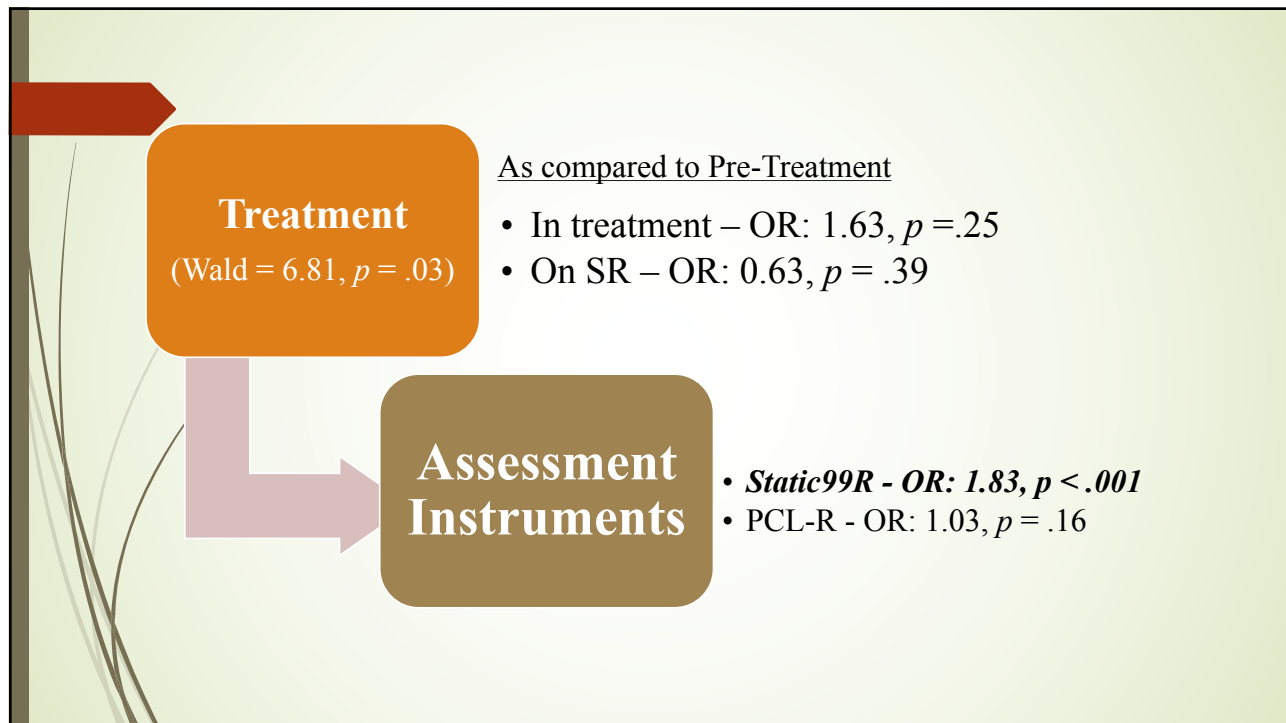
Liberal (.40)
Moderate (.64)
Conservative (.85)

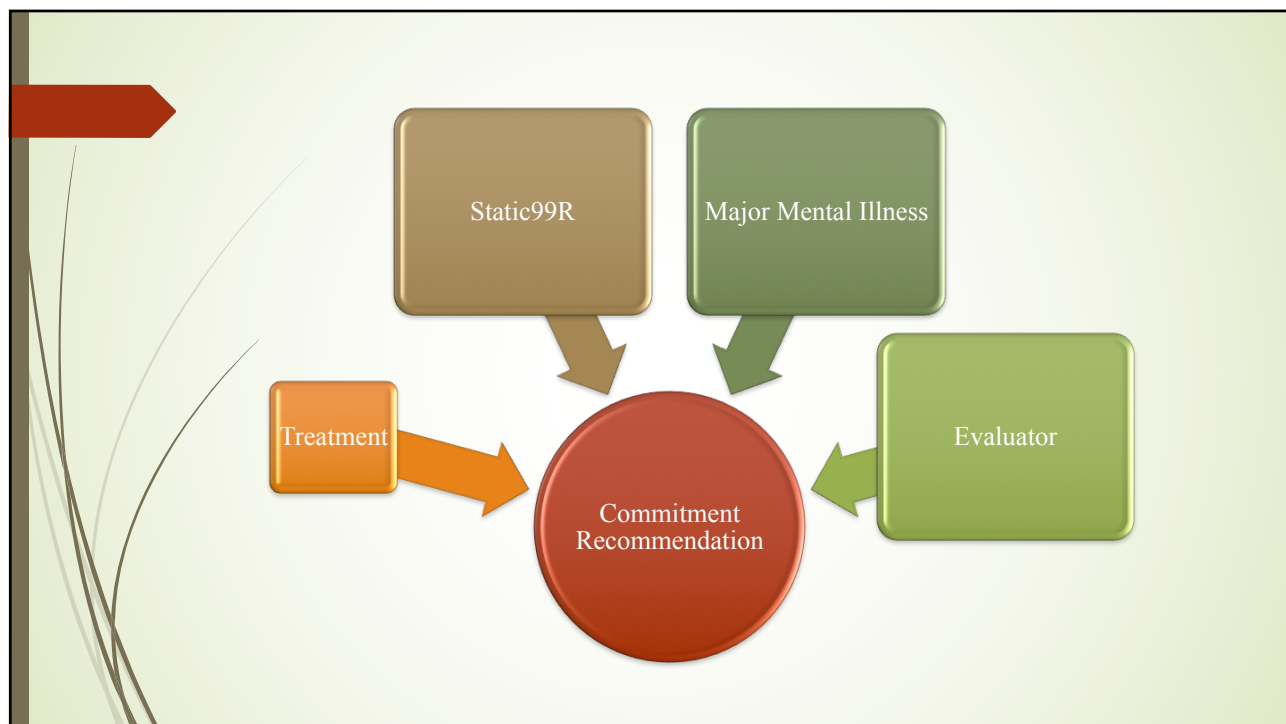
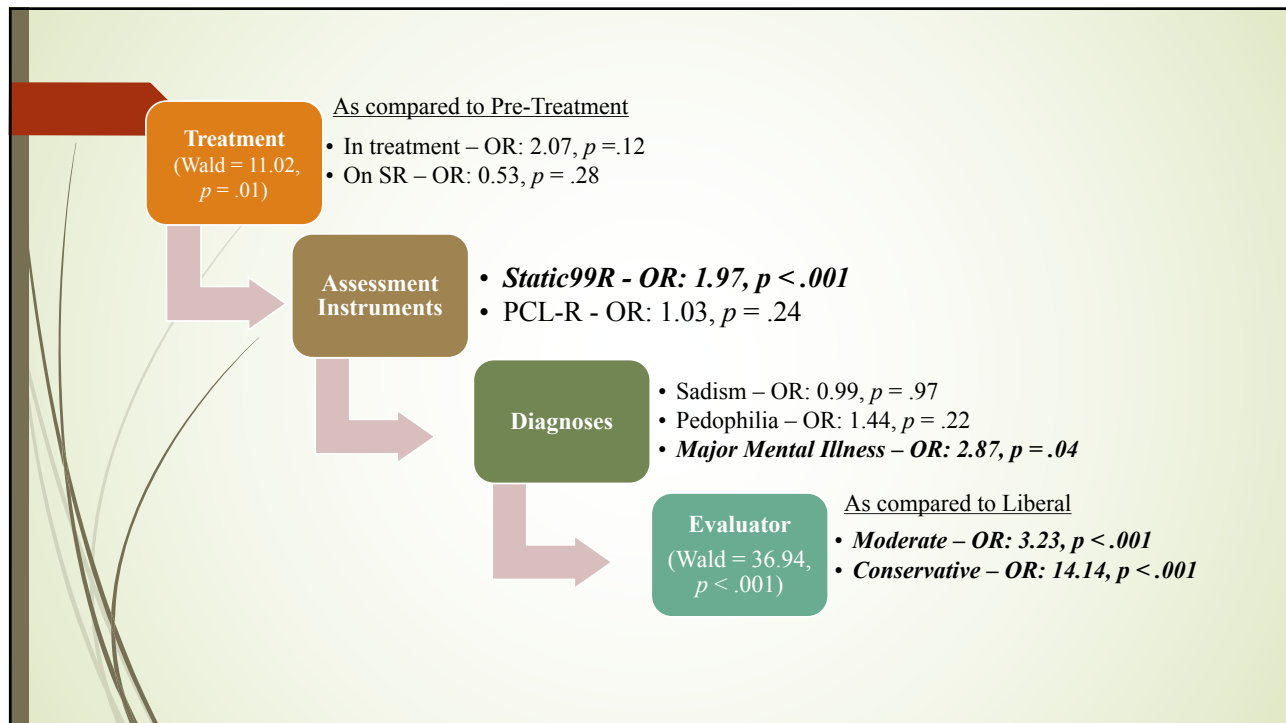
Treatment

(Wald = 16.94, $p < .001$)

As compared to Pre-Treatment

- ***In treatment* – OR: 2.79, $p = .01$**
- On SR – OR: 0.90, $p = .82$







Take Home Points

Vignettes

- Yuck Factors
- Psychopathy
- Sadism
- **Evaluator**

980.07 Cases

- Treatment
- Static99R
- Major mental illness
- **Evaluator**

Major Mental Illness and Recidivism

- Psychosis is not related to sexual recidivism ($d = -0.03$, $n = 1268$; Hanson & Morton-Bourgon, 2004)
- Psychosis is related to sexual recidivism (OR: 5.1 [1.6 – 16.1]; Langstrom et al., 2004)
- Those classified as “mentally ill” more likely to be in re-incarcerated for a sexual offense (Singer, Maguire, & Hurtz, 2013)
- Psychiatric hospitalization was no longer associated with increased rate of sexual recidivism once scores for Static2002R/STABLE-2007 accounted for (Lee & Hanson, 2016)



Evaluator Matters

- Consistent with past research (Boccaccini et al., 2014; Chevalier et al., 2015; Miller et al., 2011; Murrie & Warren, 2005)
- Bias – deviation from the norm
 - *Implicit versus Explicit*
 - Representativeness (Base rate neglect)
 - Availability (Confirmation bias)
 - Anchoring (framing/context)

Evaluator Bias – “Bias Blind Spot”



Acknowledgments

- ▶ The data presented here is based in part on a study that also includes contributions from David Thornton, James Mundt, Sharon Kelley, Robert Barahal, and Gina Ambroziak (manuscript in process).