



# Evaluator struggles: Risk aversion, impotence, and decision making

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# Influence of case details and evaluator differences in SVP cases

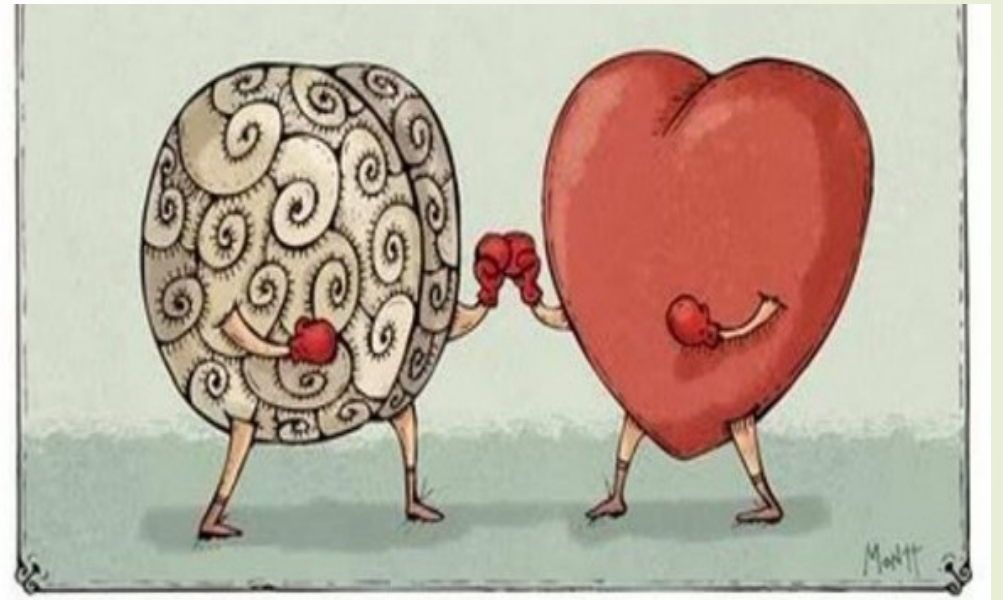
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# How do evaluators make decisions?



# Risk assessments and unstructured decision making

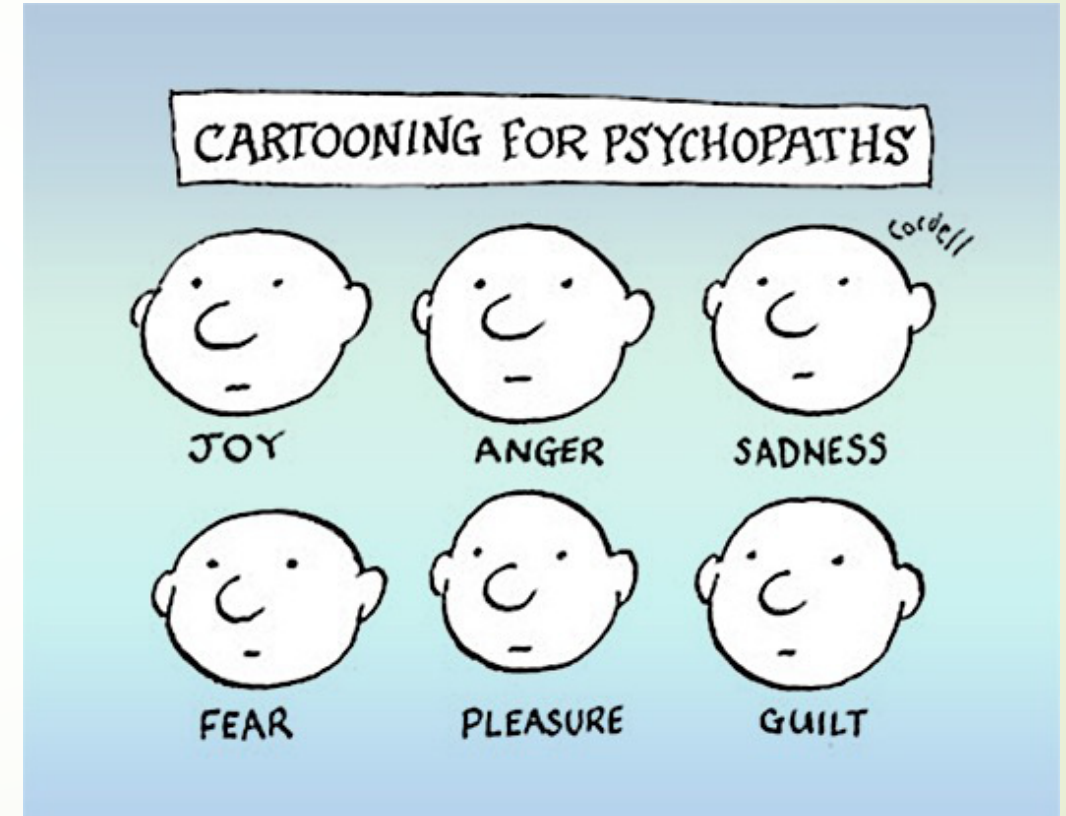
- Standardized assessments are strongest predictors (*Guy, 2008; Hanson & Morton-Bourgon, 2009*)
- But these are not used in isolation (*Vrieze & Grove, 2009*)
- Static99R may have some (49%) or a lot (42%) of influence (*Chevalier, Boccaccini, Murrie, & Varela, 2015*).
- Clinical override
  - Often 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, Morphett, & 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 (SORAG)
- Sadism diagnosis – 4.2x more likely to sexually reoffend (after controlling for Static99; 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 florid details
  - Preliminary work on extraneous case details  
*(Zapf and colleagues)*

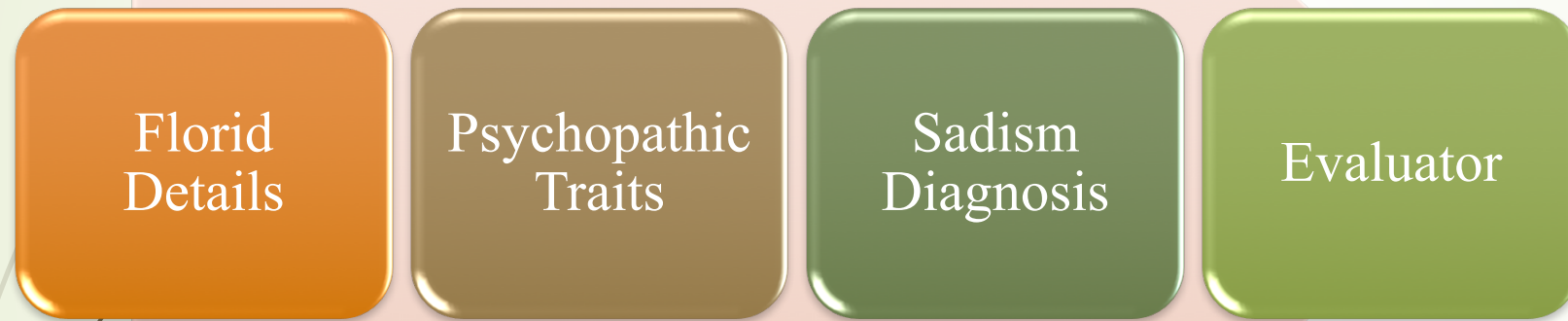


## What information do evaluators use to evaluate risk and make decisions about commitment: Two parts

- 1. Vignettes (with varying levels of florid details, 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		

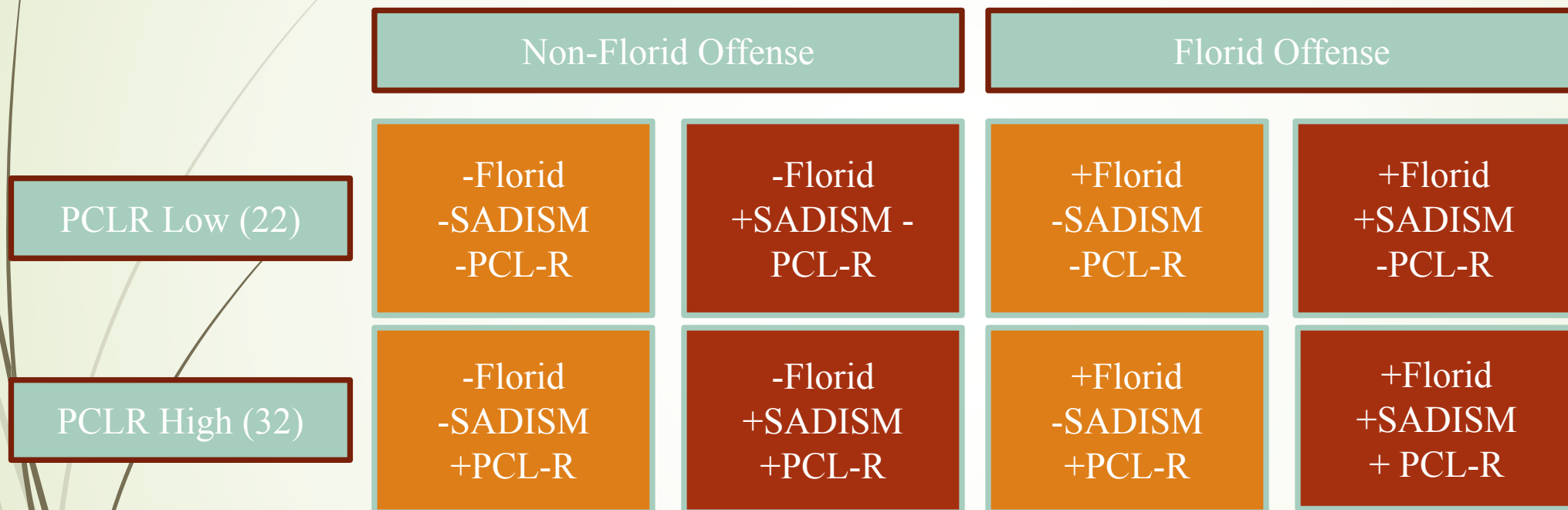
- Rate how likely they would be to recommend civil commitment under provisions of SVP law.
  - 1 (*Highly Unlikely*); 2 (*Somewhat Unlikely*); 3 (*Somewhat Likely*); 4 (*Highly Likely*)



# Measures

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

# 2 x 2 x 2 Factorial Design





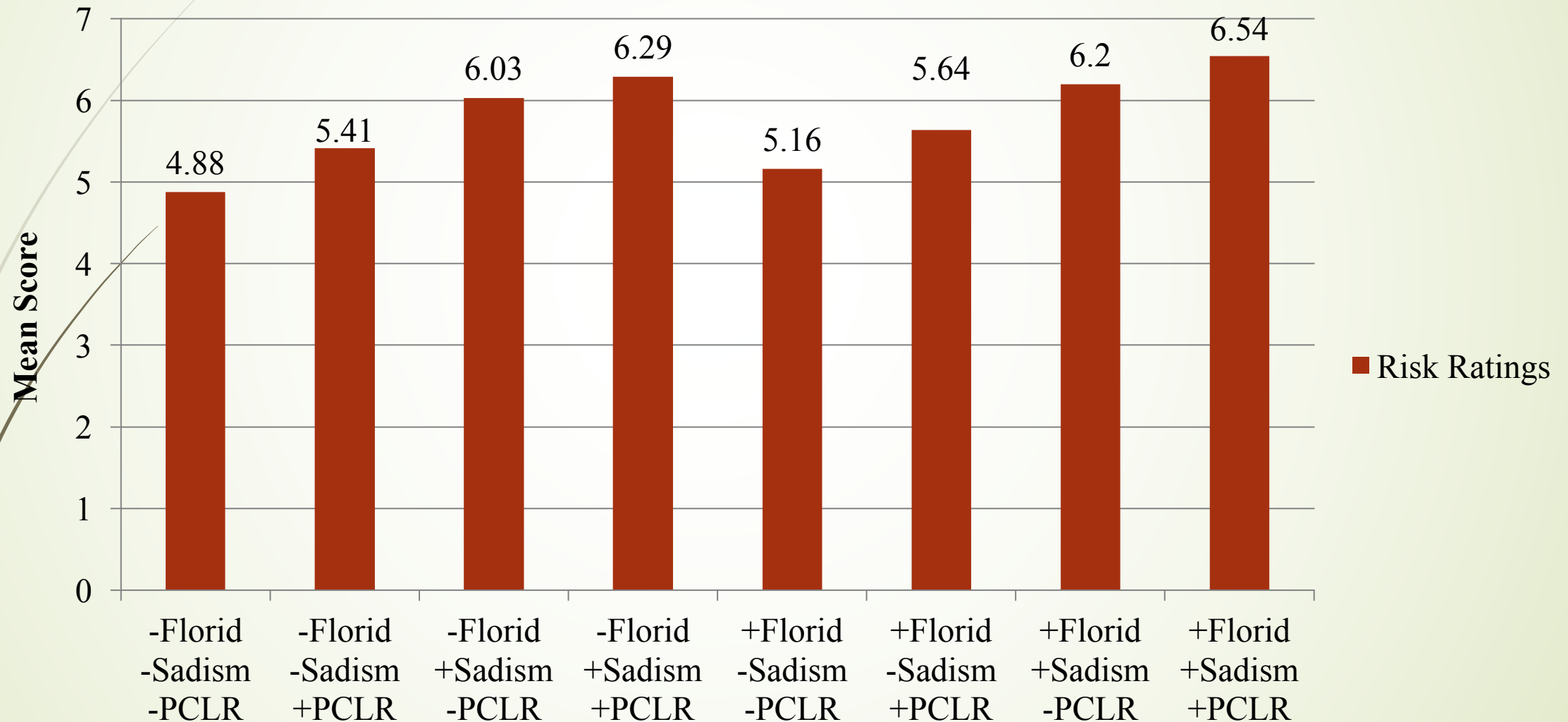
# Mr. Jones

- 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



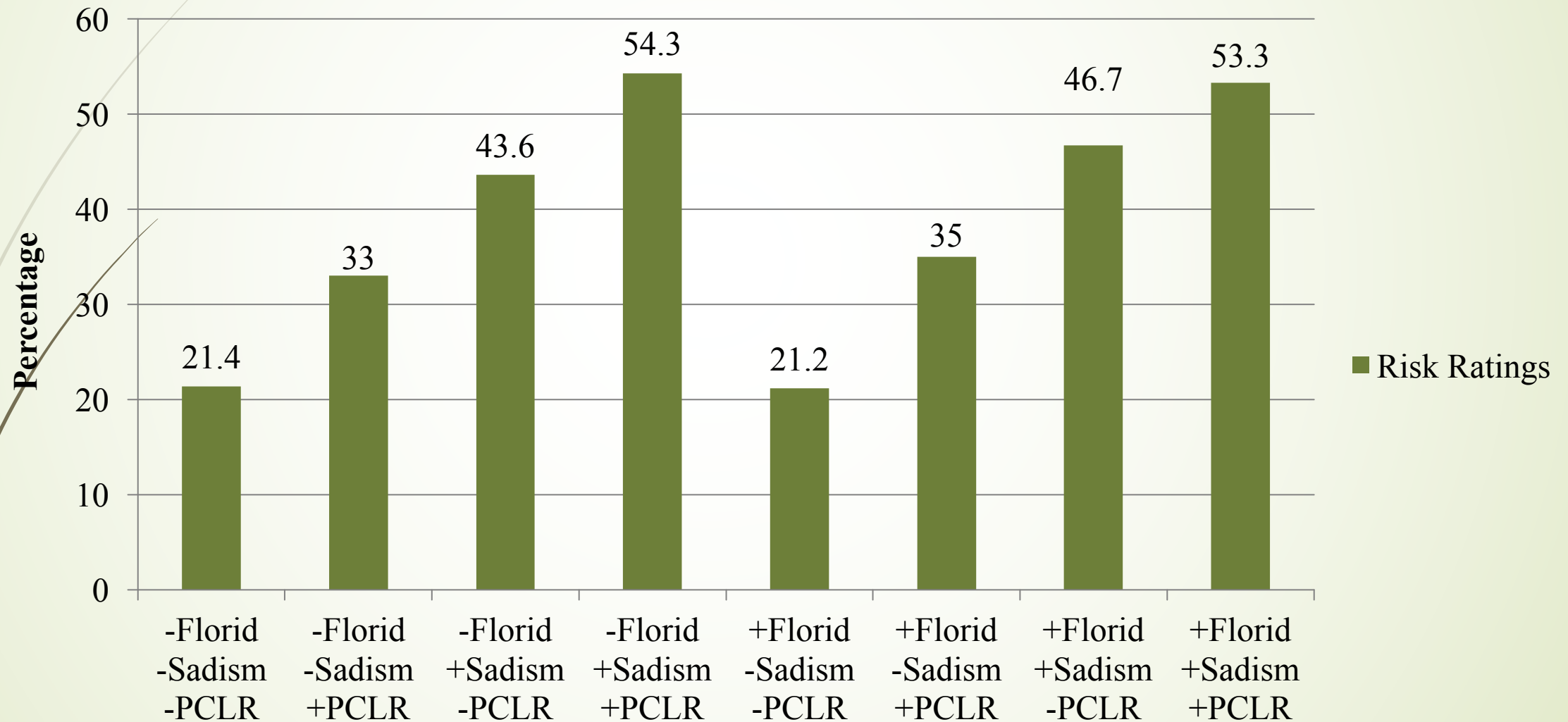
# Descriptives: Risk Ratings

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



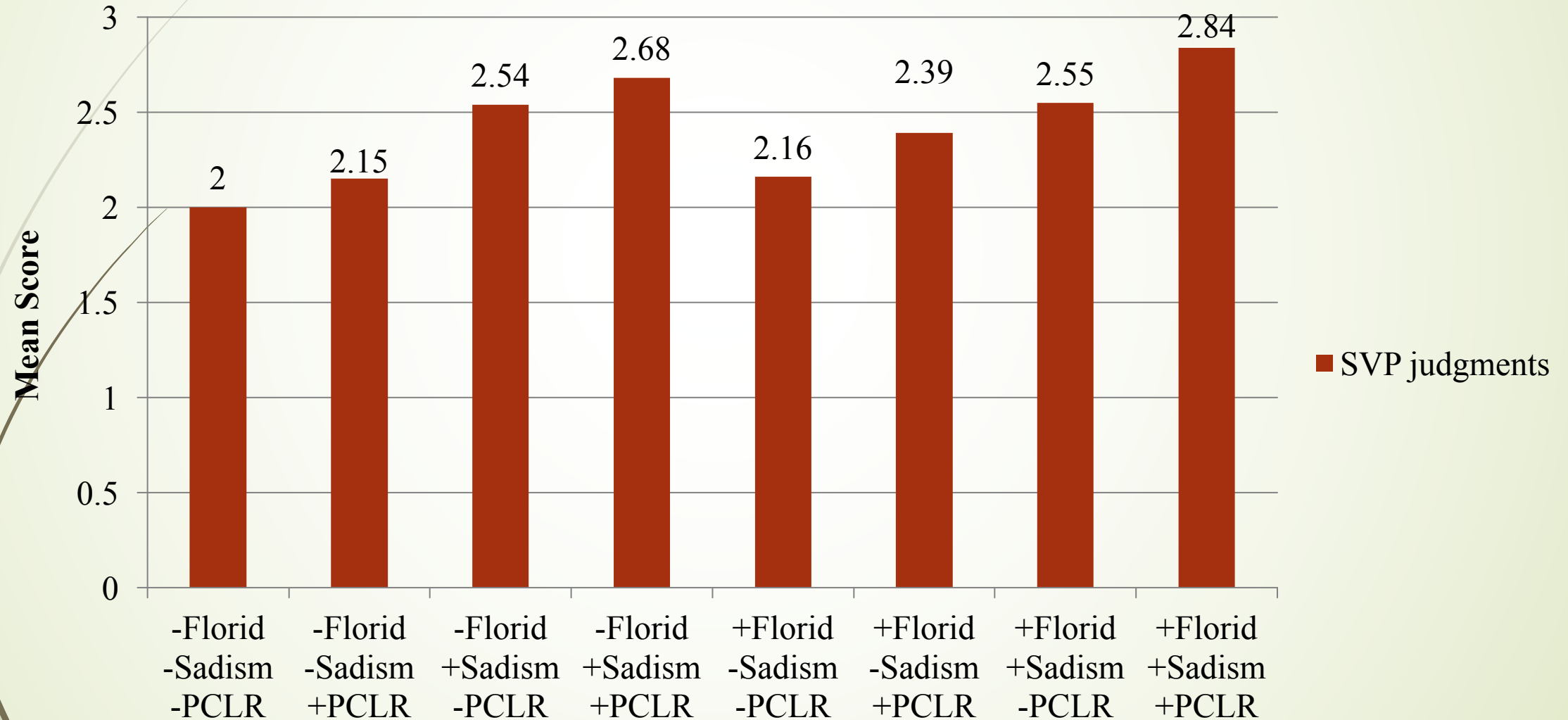
# High Risk (7-9)

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



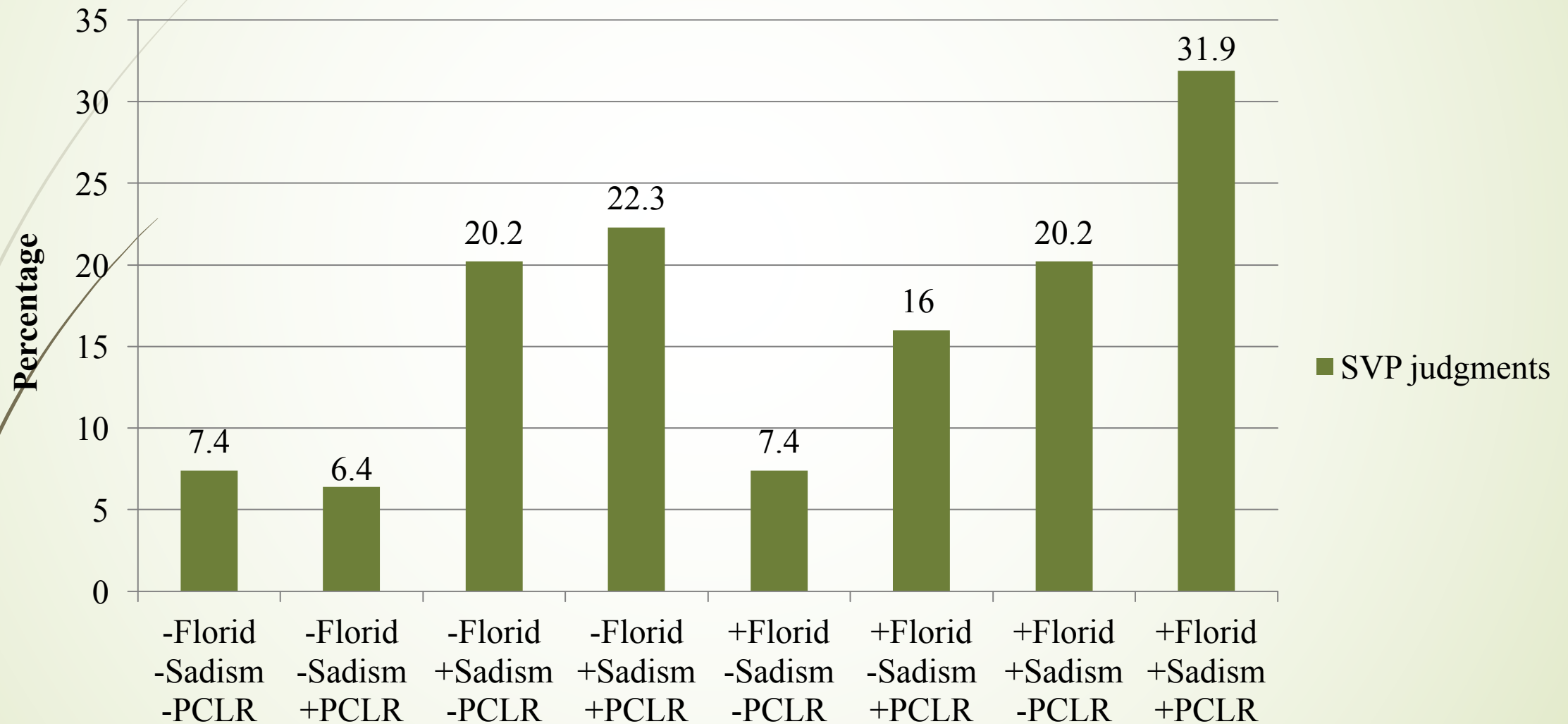
# Descriptives: Commitment Judgments

1 (*Highly Unlikely*); 2 (*Somewhat Unlikely*); 3 (*Somewhat Likely*); 4 (*Highly Likely*)



# Highly Likely to Commit (4)

1 (*Highly Unlikely*); 2 (*Somewhat Unlikely*); 3 (*Somewhat Likely*); 4 (*Highly Likely*)





# Correlations between risk ratings and commitment judgments within vignettes

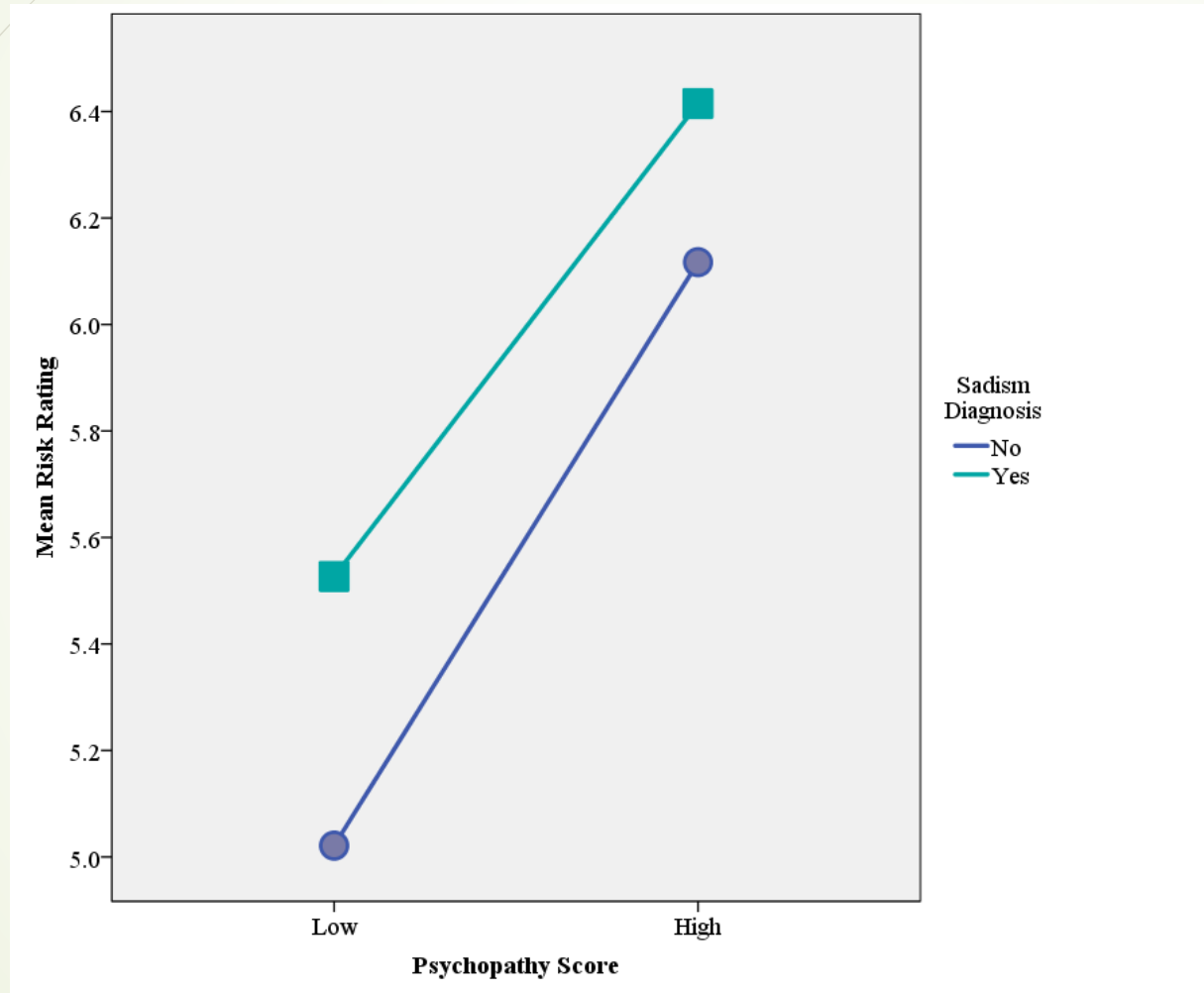
Vignette	<i>Pearson r</i>
-Florid -Sadism -PCL-R	.77
-Florid -Sadism +PCL-R	.69
-Florid +Sadism -PCL-R	.68
-Florid +Sadism +PCL-R	.63

Vignette	<i>Pearson r</i>
+Florid -Sadism -PCL-R	.71
+Florid -Sadism +PCL-R	.65
+Florid +Sadism -PCL-R	.71
+Florid +Sadism +PCL-R	.65

## ANOVA Results: Effects of florid details, psychopathy, and Sadism on risk ratings

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

# Interaction: Psychopathy \* Sadism Diagnosis

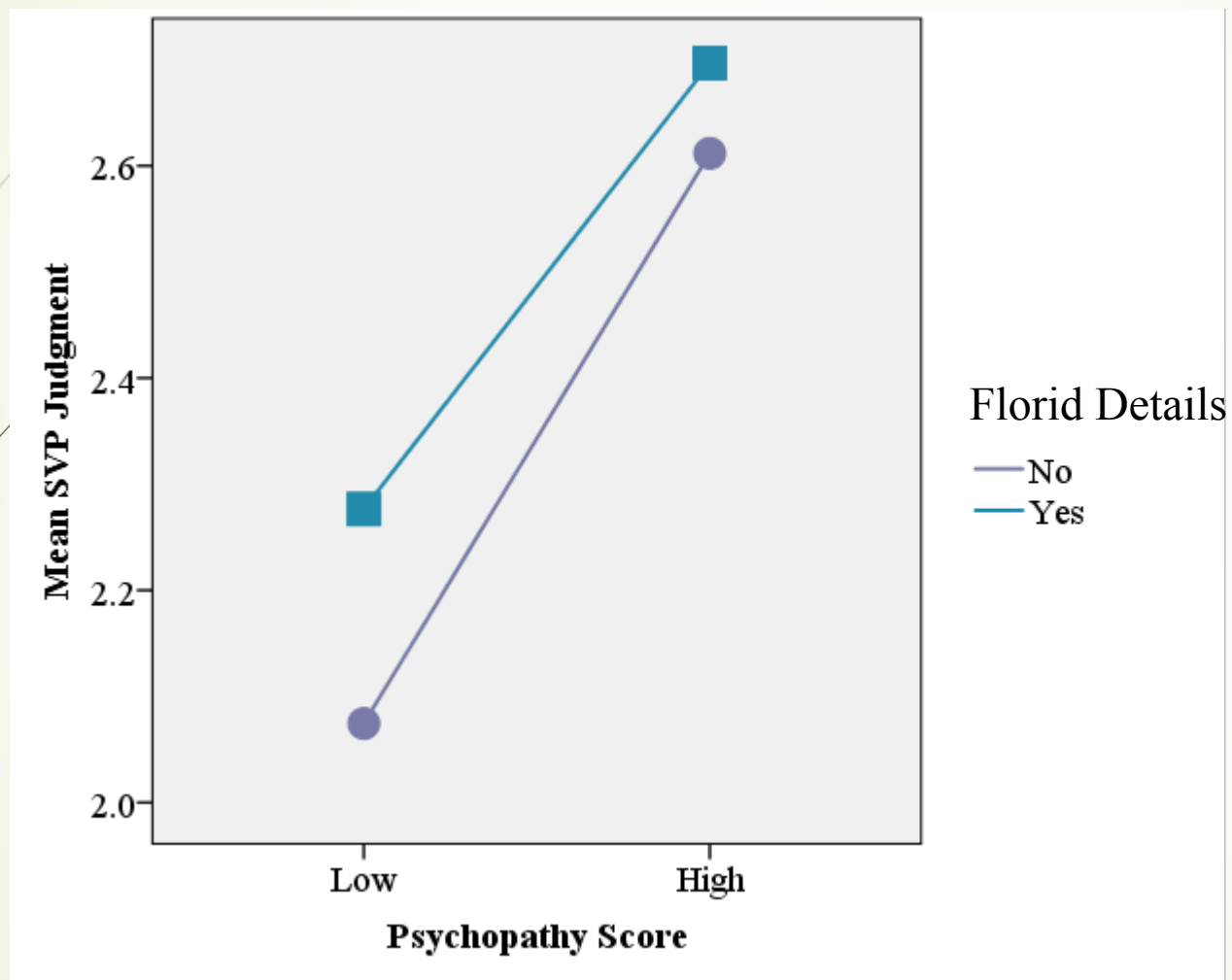


## ANOVA Results: Effects of florid details, psychopathy, and Sadism on commitment judgments

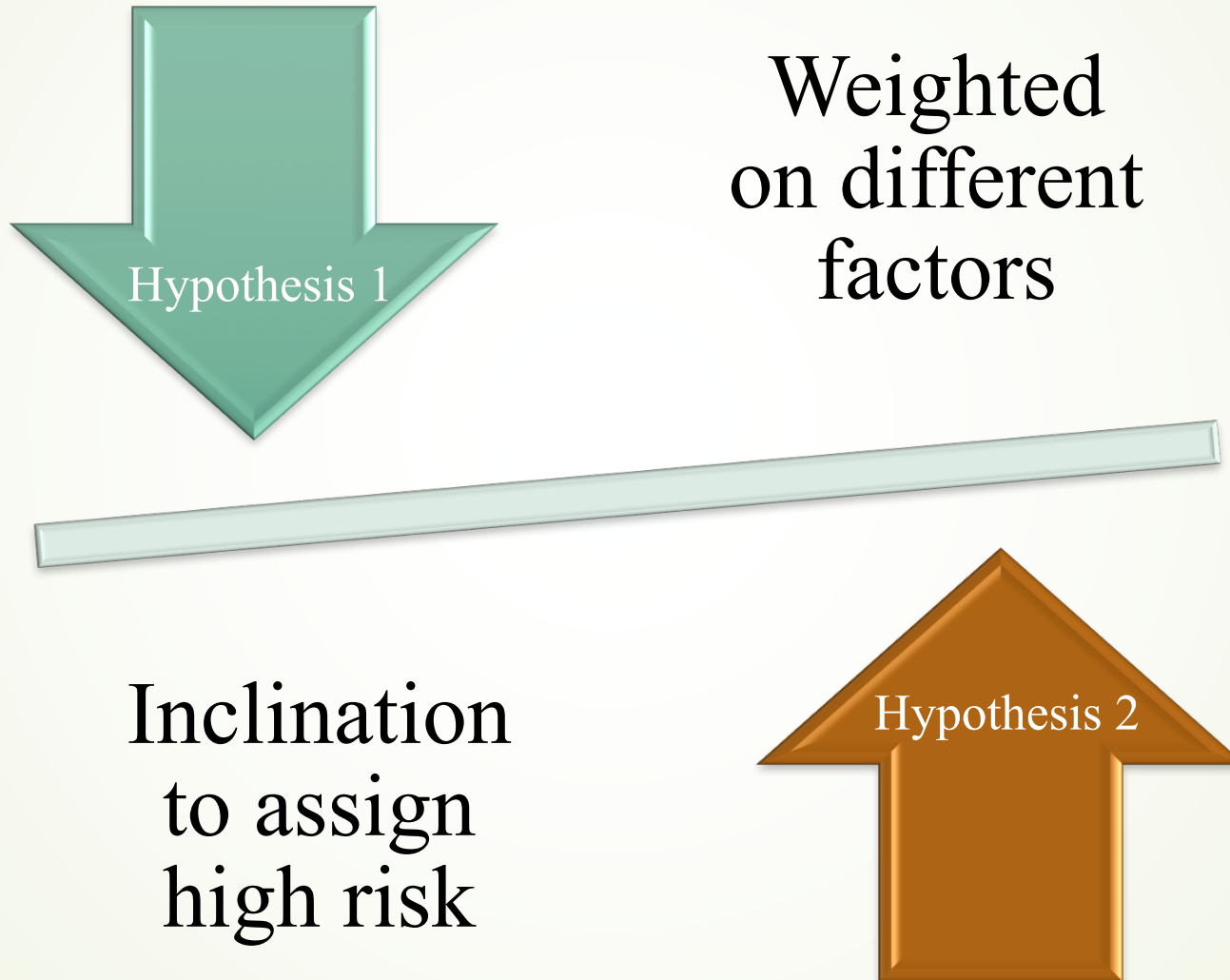
	Multivariate <i>F</i> Test	Sig
Florid Details	$F(1, 93) = 9.92$	$p = .002$
Psychopathy	$F(1, 93) = 102.31$	$p = .002$
Sadism	$F(1, 93) = 22.99$	$p < .001$
Florid Details* PCLR	$F(1, 93) = 4.75$	$p = .03$
Florid Details* Sadism	$F(1, 93) = 2.98$	$p = .09$
PCLR * Sadism	$F(1, 93) = .13$	$p = .72$
Florid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



## Interaction: Florid Details \* Psychopathy



# Examining the Evaluator Effect



# Results: Examining the evaluator effect

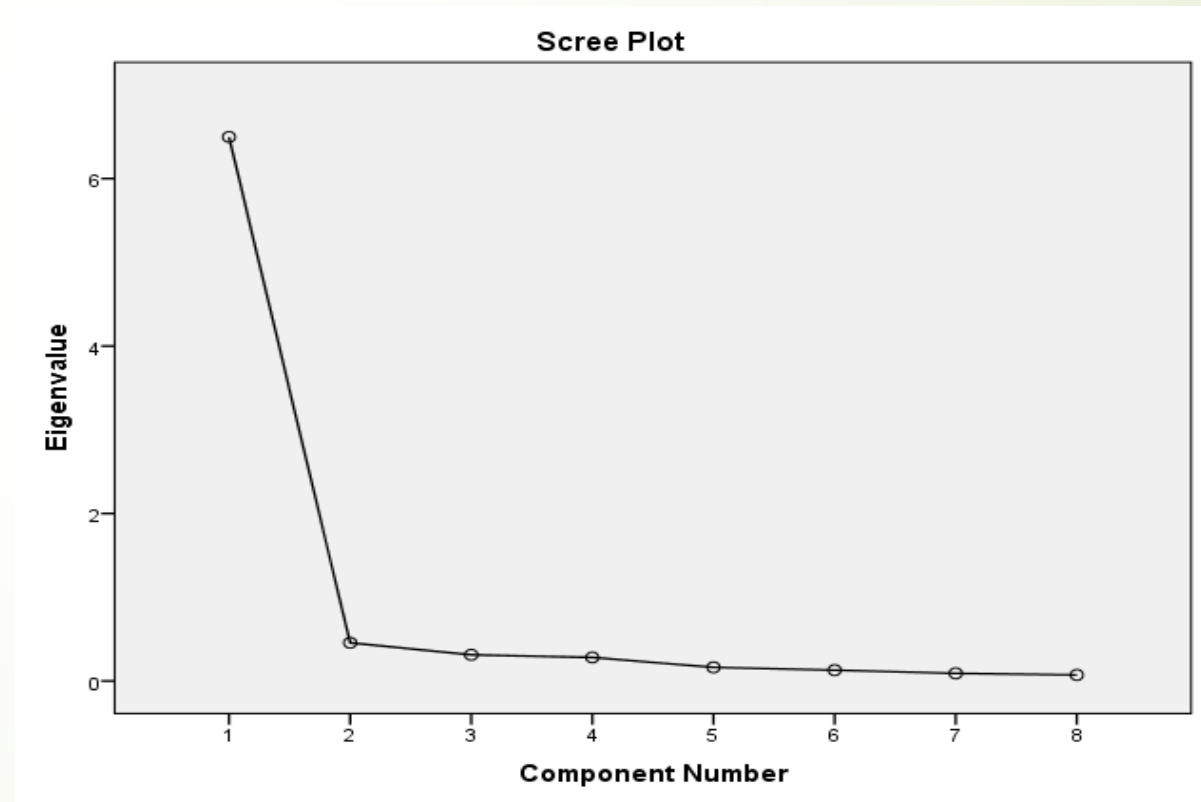
- Correlations between risk ratings across vignettes
  - $r = .66 - .87, p < .001$
- Correlations between commitment ratings across vignettes
  - $r = .55 - .82, p < .001$

# Results: Examining the evaluator effect

➤ Principal Components Analysis of risk ratings

➤ Resulted in 1 Factor

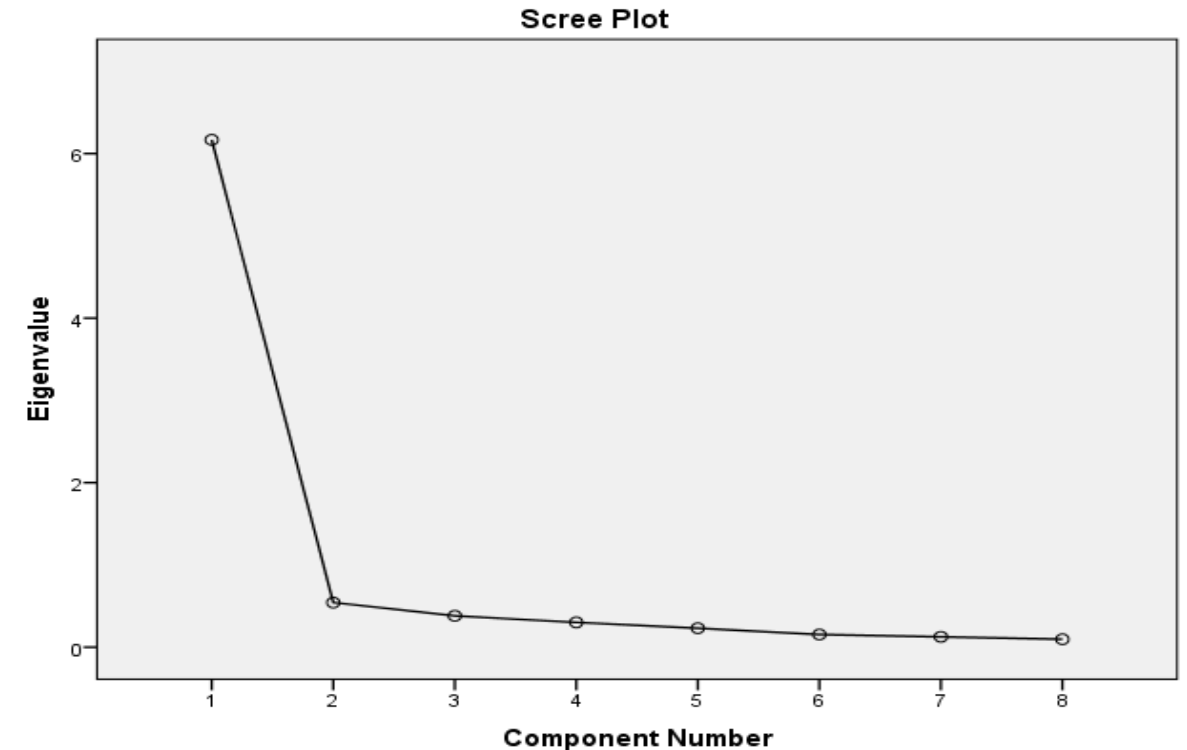
Vignette 1	.85
Vignette 2	.91
Vignette 3	.92
Vignette 4	.92
Vignette 5	.88
Vignette 6	.92
Vignette 7	.90
Vignette 8	.91



# 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





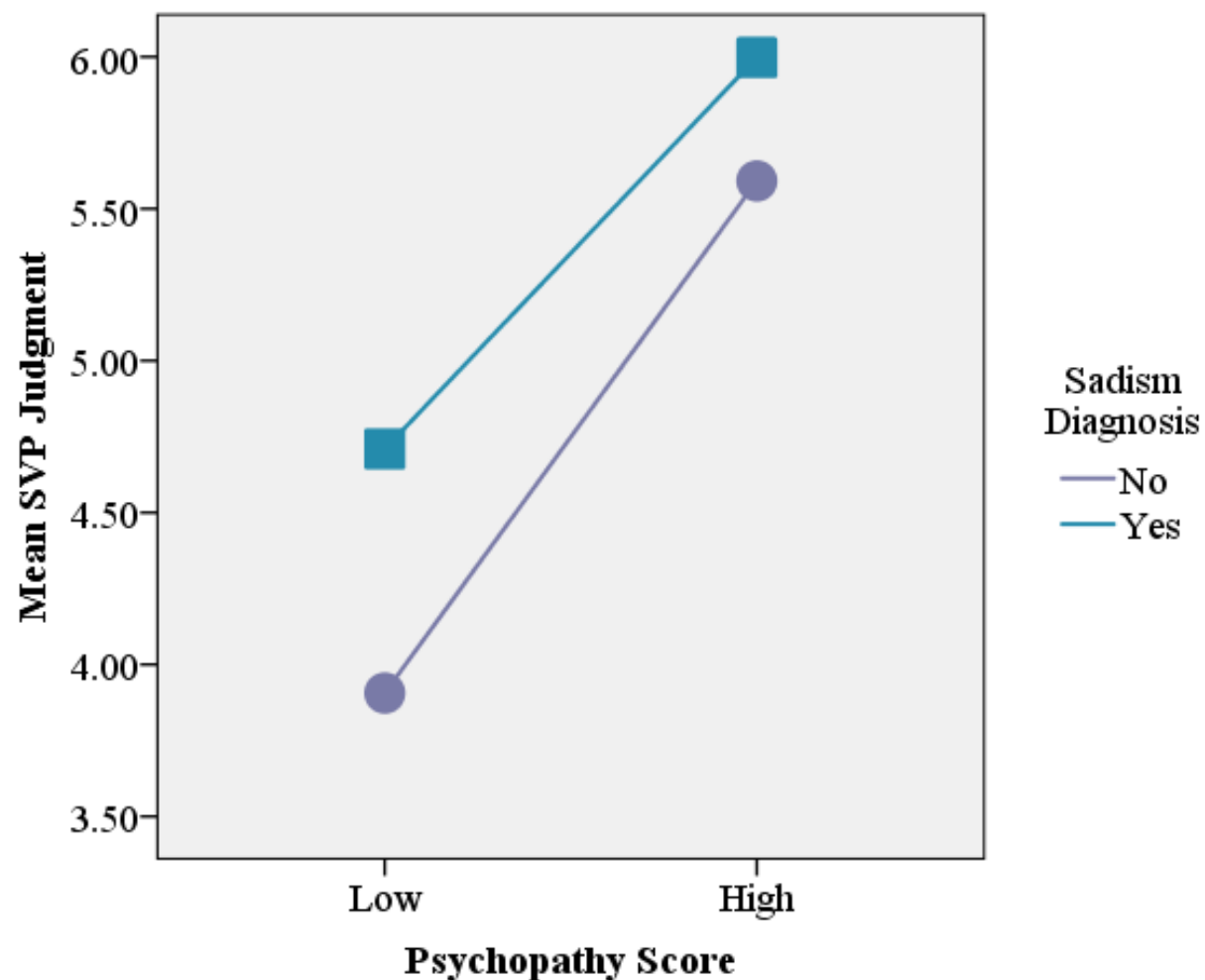
## Parsing out the evaluator effect: Risk ratings

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

## Parsing out the evaluator effect: Commitment judgments

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

## Interaction: Psychopathy \* Sadism Diagnosis





VS.






## 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

Below Average(.40)  
Average(.64)  
Above Average (.85)



# Treatment

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

As compared to Pre-Treatment

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



## Treatment

(Wald = 6.81,  $p = .03$ )

As compared to Pre-Treatment

- In treatment – OR: 1.63,  $p = .25$
- On SR – OR: 0.63,  $p = .39$



## Assessment Instruments

- *Static99R* - OR: 1.83,  $p < .001$
- PCL-R - OR: 1.03,  $p = .16$





## Treatment

(Wald = 6.34,  
 $p = .04$ )

As compared to Pre-Treatment

- In treatment – OR: 1.65,  $p = .24$
- On SR – OR: 0.64,  $p = .64$

## Assessment Instruments

- *Static99R* - OR: 1.84,  $p < .001$
- PCL-R - OR: 1.04,  $p = .07$

## Diagnoses

- Sadism – OR: 0.93,  $p = .87$
- Pedophilia – OR: 1.35,  $p = .27$
- *Major Mental Illness* – OR: 2.80,  $p = .03$

As compared to Pre-Treatment

**Treatment**  
(Wald = 11.02,  
 $p = .01$ )

- In treatment – OR: 2.07,  $p = .12$
- On SR – OR: 0.53,  $p = .28$

**Assessment  
Instruments**

- *Static99R* - OR: 1.97,  $p < .001$
- PCL-R - OR: 1.03,  $p = .24$

**Diagnoses**

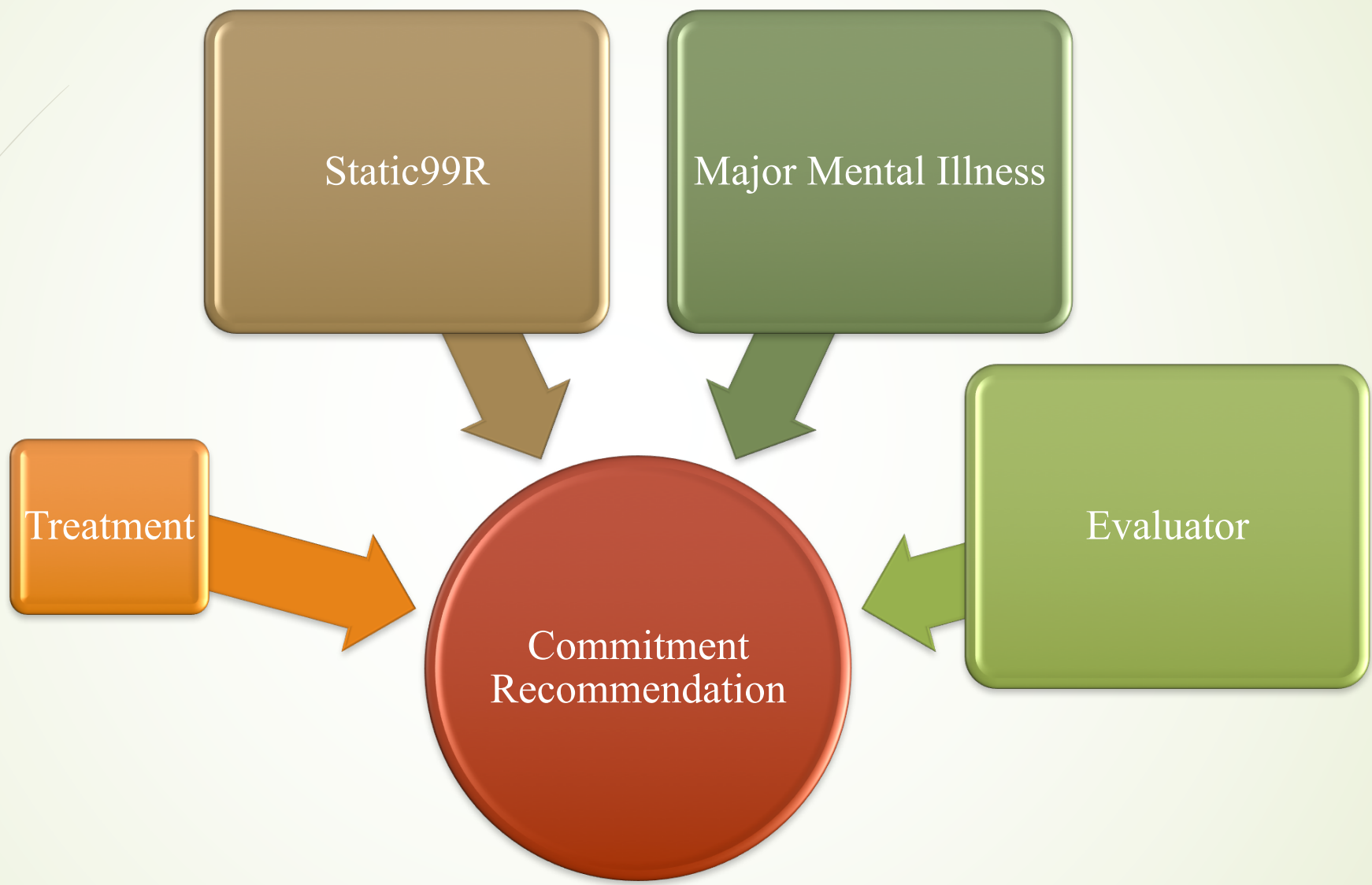
- Sadism – OR: 0.99,  $p = .97$
- Pedophilia – OR: 1.44,  $p = .22$
- *Major Mental Illness* – OR: 2.87,  $p = .04$

**Evaluator**

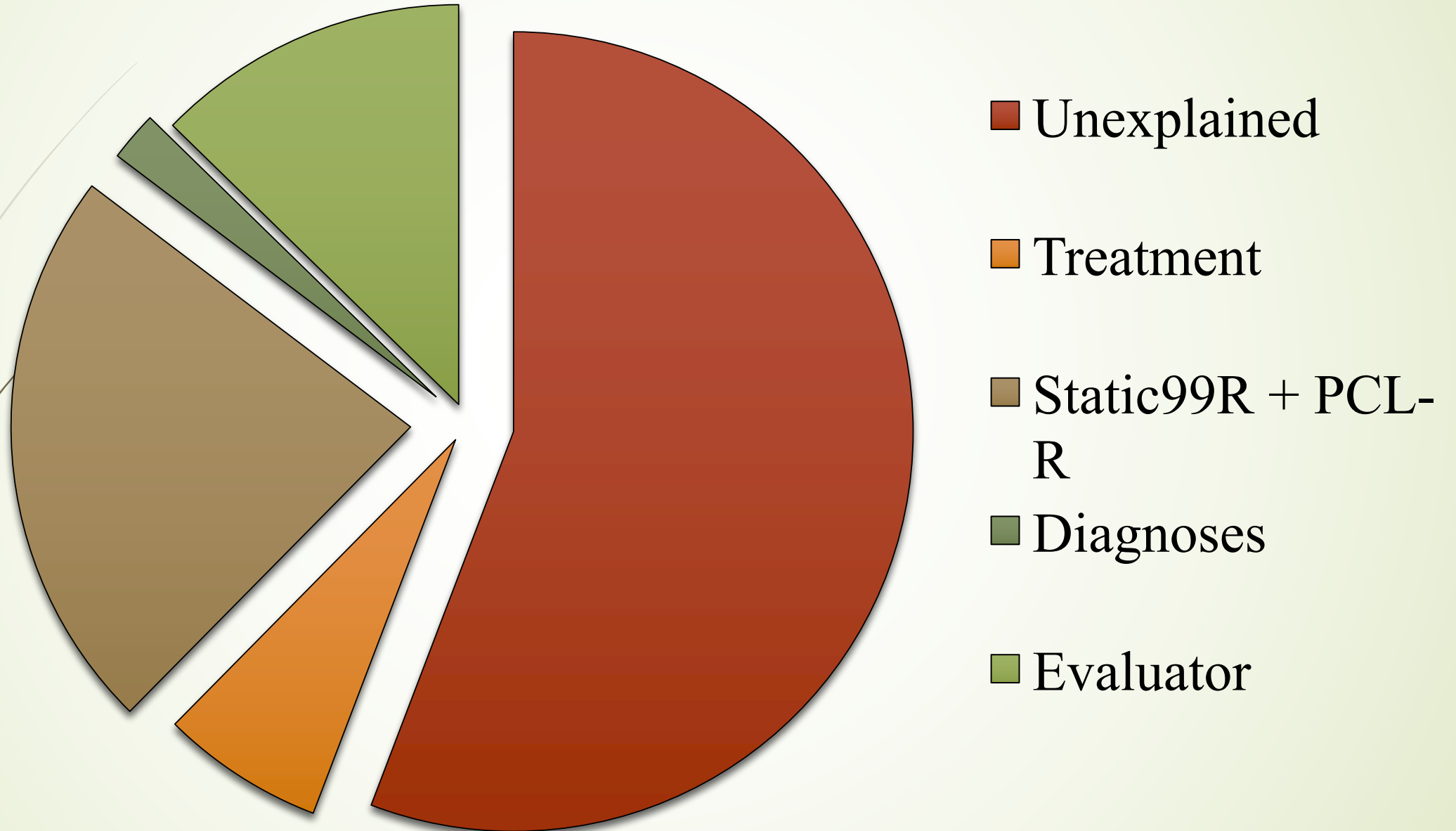
(Wald = 36.94,  
 $p < .001$ )

As compared to Below Average

- *Average* – OR: 3.23,  $p < .001$
- *Above Average* – OR: 14.14,  $p < .001$



# COMMITMENT RECOMENDATION







Conclusion



## Take Home Points

### Vignettes

- Florid Details
- Psychopathy
- Sadism
- **Evaluator**

### 980.07 Cases

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





# Evaluator Matters...A lot

- 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 and Explicit*
    - Representativeness (Base rate neglect)
    - Availability (Confirmation bias)
    - Anchoring (framing/context)

## Evaluator Bias – “Bias Blind Spot”

It's not me, it's you.

someecards





# 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).
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