Exploring the Relationship and Direction of Influence Between Attitudes, Outcome Expectancies, and Violent Behaviour

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Attitudes towards Violence

- According to psychological theories about violence, violent attitudes can influence the likelihood of engaging in violent behaviour (see General Aggression Model; Anderson & Bushman, 2002)
- Attitudes are thought to be dynamic causal risk factors for violent offending (Andrews & Bonta, 2010)
- Focused on in a forensic and correctional setting due to their amenability to treatment

Definition of Attitudes

- Typically defined as evaluations of psychological objects such as people, things, or behaviours (e.g., Ajzen, 2001; Eagley & Chaiken, 1993; Fazio, 2007)
- Implicit Attitudes: immediately activated evaluations of a psychological object (APE; Gawronski & Bodenhausen, 2006)
- Explicit Attitudes: deliberative propositional reasoning about a psychological object (APE; Gawronski & Bodenhausen, 2006)

Measurement of Attitudes

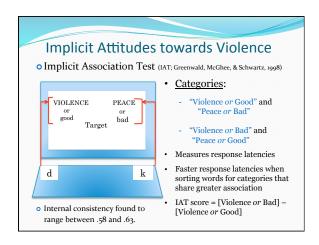
- 1. Self-report Measures:
 - Violence scale of the Measures of Criminal Attitudes and Associates (MCAA-V; Mills, Kroner, & Forth,
 - Semantic Differential measures
 - o Outcome Expectancies for violence
- 2. Implicit Measure:
 - o Implicit Association Test (IAT; Greenwald, McGhee, & Schwartz, 1998)

Current Research Project

- Purpose
 - To assess the relationship between attitudes and outcome expectancies regarding violence
 - And the relationship between these cognitions regarding violence and violent behaviour (selfreported past and future risk)
- 3 Studies:
 - \circ 2 contain \mathbf{i}^{st} and $\mathbf{2}^{\text{nd}}$ year university students from Carleton
 - o 1 contains offenders from OCDC

Research Design

- Studies 1 and 2
 - o Correlational and cross-sectional
 - Study 1: sample of 125 male undergraduate students
 - o Study 2: sample of 19 male offenders
- Study :
 - o Experimentally manipulated violent behaviour
 - to assess directionality of relationship between attitudes and behaviour
 - o Sample of 126 male undergraduate students



Studies 1 and 2: Measures • Implicit Attitudes towards Violence • Violent Attitude IAT • Self-report Measures 1. Attitudes towards Violence • MCAA-R-V (Mills et al., 2002) 2. Outcome Expectancies for Violence • Violence Outcome Expectancies (VOE) scale 3. Behavioural Outcome Measures • Antisocial Behaviour Scale-Violent (ABS-V; Study 1) • Self-Appraisal Questionnaire (SAQ; Loza, 2005; Study 2)

Results of Correlational Analyses • Study 1- Student Sample (N = 125) • Pearson's r (above diagonal) and Spearman's rho						
Construct	1	2	3	4		
Implicit Attitudes	-	.07	.01	.02		
Outcome Expectancies	.06	-	.28**	.28**		
Self-report Attitudes	.04	.27**	-	.22*		
Prior Violent Behaviour	02	.30**	.31***	-		

Results of Correlational Analyses						
 Study 2- Offender sample (N = 19) Pearson's r (above diagonal) and Spearman's rho 						
Construct	1	2	3	4		
Implicit Attitudes	-	.21	.10	16		
Self-report Attitudes	.10	-	09	·47*		
Outcome Expectancies	.15	20	-	37		
Risk of Violence	15	.6o**	47 [*]	-		
**p < .01, *p < .0	5					

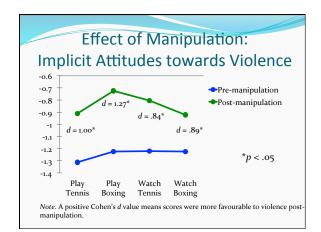
Study 3: Measures Implicit Attitudes towards Violence: Violent Attitude IAT Self-report Measures: Explicit Attitudes towards Violence Semantic Differential (SD) Outcome Expectancies for Violence VOE scale Behavioural Outcome Measure Violent Behaviour Questionnaire (VBQ)

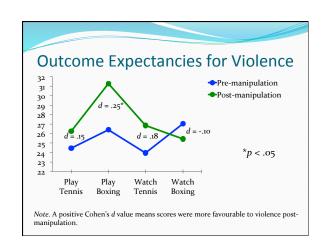
Study 3: Experimental Design Manipulation: Participants were 126 male undergraduate students either watched someone playing or played Wii boxing or Wii tennis Procedure: VBQ Violent Cognition measures Manipulation Violent Cognition measures

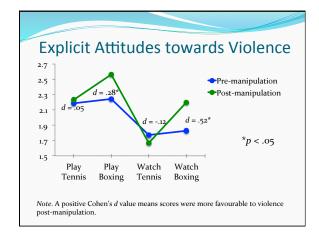
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	•		Studies lations (N =	
Construct	1	2	3	4
Implicit Attitudes	-	.15	.01	00
Outcome Expectancies	.16	-	.13	.01
Explicit Attitudes	06	.20*	-	.05
Prior Violent Behaviour	08	.01	.03	-
<i>Note</i> . Pearson's $r = 0$ p < .05	orrelations are abov	ve the diagonal and	d Spearman's rho c	orrelations are be

Study 3: Experimental Manipulation

- Experimental Manipulation:
 - o 4 conditions:
 - Playing Wii tennis (n = 39)
 - Observing someone else play Wii tennis (n = 19)
 - Playing Wii boxing (n = 41)
 - Observing someone else play Wii boxing (n = 27)
- Hypothesis:
 - Violent cognitions will significantly differ before and after manipulation for those in violent condition (i.e., Wii boxing)







Limitations

- Small sample of offenders in Study 2 (N = 19)
- Only manipulated violent behaviour in Study 3
- Manipulation in Study 3 may not be generalizable
- IAT may have not accurately assessed participants' implicit attitudes towards violence

Implications

- This research provides insight into the role that violent cognitions play in the commission of violent behaviour
 - Suggests that implicit attitudes towards violence may not be important in understanding such behaviours
 - Self-report or explicit attitudes towards violence appear to be important in the commission of violence
- Causal effect of exposure to violence (by playing a violent video game) on explicit attitudes and outcome expectancies regarding violence

Thank you!

Questions?

- Maimone, S., Nunes, K. L., Balemba, S., Pettersen, C., Dupuis, M., Staddon, M., & Frank, C. (2015, June). Exploring the Relationship and Direction of Influence Between Attitudes, Outcome Expectancies, and Violent Behaviour. In K. L. Nunes (Chair) Violent Cognitions. Symposium to be conducted at the 2rd North American Correctional and Criminal Justice Psychology Conference (NACCJPC), Ottawa, Ontario.
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