Presenter Disclosures

No Relationship to disclose

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A Brief Scale to Measure Problematic Sexually Explicit Media Consumption: Psychometric Properties of the Compulsive Pornography Consumption (CPC) Scale among Men who have Sex with Men
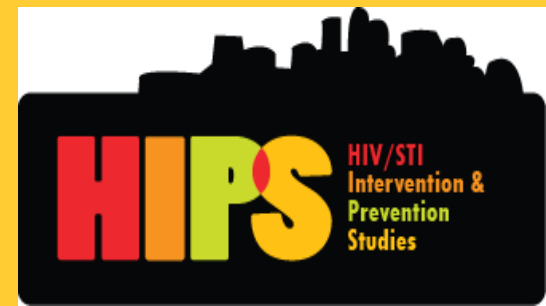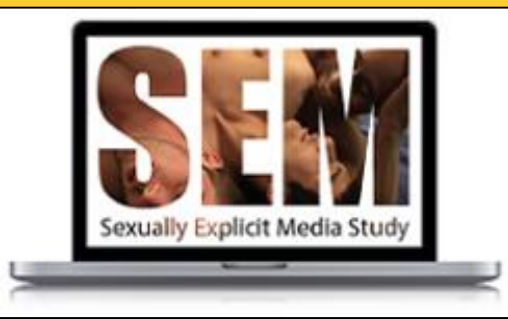
Syed WB Noor, B. R. Simon Rosser and Darin J Erickson
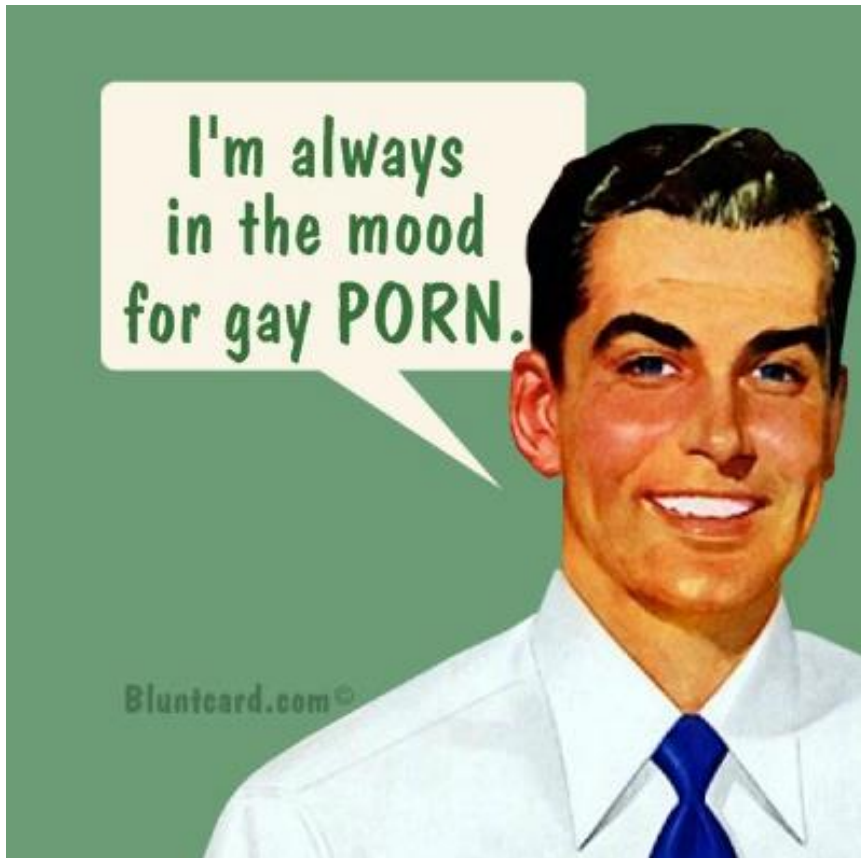HIV/STI Intervention & Prevention Studies
Division of Epidemiology & Community Health
School of Public Health

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How does what we see influence what we do?

Why study SEM and MSM?

Our preliminary studies showed:

- *SEM consumption is extremely common*

    97% of 517 MSM report watching cyber-SEM (Rosser et al., 2011)

- *Gay SEM industry is huge.* *Economically gay SEM is a $1.3-$6.5 Billion industry, annually. While MSM comprise 4-10% of the population, gay SEM comprises 33-50% SEM consumed in US.* (Egan)

- Yet, very neglected area of research. At start of study, we found only 4 papers on gay SEM use: 2 examined it causing negative body image, 1 on it causing CSB, and one small pilot on HIV risk (which found no relationship between SEM consumption and HIV risk).

Study Aims

The *Sexually Explicit Media (SEM) study (R01MH087231)* was a 33-month NIH-funded study recently completed (2010-2012) to investigate the effects of gay SEM on HIV risk behavior.

Aims:

1. to study gay SEM consumption.

2. to investigate an hypothesized relationship between SEM consumption and sexual risk.

3. to assess how SEM could be used in HIV prevention

Multi-Method Research Design

1. ## Qualitative: 13 online synchronous focus groups with asynchronous follow-up (N=73 MSM, 2009-2010)

   - Wilkerson JM, Iantaffi A, Grey JA, Bockting WO, & Rosser BRS (2014). Recommendations for Internet-based qualitative health research with hard-to-reach populations. *Qualitative Health Research, 24*(4):561-74.

2. ## New Measures Reliability study (N=241 MSM, 2010)

   - Grey, J.A., Schreiner, P. Erickson, D., Rosser, B.R.S. Test-retest reliability of self-reported sexual behavior and HIV/STI diagnoses in an online sample of men who have sex with men: Results from the Sexually Explicit Media (SEM). Submitted for publication.

3. ## Quantitative: online survey(N=1,391 MSM, May-August 2011)

   - Rosser, B.R.S., Smolenski, D., Erickson, D. Iantaffi, A., Brady, S.S., Galos, D. Grey, J. Hald, G.M., Horvath, K.J., Kilian, G., Træen, B., Wilkerson J.M. (2103). The effects of gay sexually-explicit media on the HIV risk behavior of men who have sex with men. *AIDS & Behavior, 17*(4): 1488-1498.

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Participants

- Recruitment: 7.9 million impressions on *Gay Ad Network*
  – Mega-site advertising across102 gay sites with 2+ million visitors per month.

- Inclusion criteria
  - Internet-using
  - MSM (male, 18+, who self-report sex with men last 3 yrs)
  - Living in the US
  - A unique individual as validated by our cross validation and de-duplication protocol.
  - Racial strata used to increase non-White involvement.

- Process data on de-duplication and cross-validation
  - CTR=0.16%; 2% multiple submits and 10% invalids

The CPC Scale

Two samples:

Test and Retest (N=241)

Main Study (N=1165)

Quota sampled the main study for ethnic/racial representation

Main Study Sample

A majority of the participants were

      younger (68% < 35 years),

      non-Hispanic White (43%),

      Well educated (50% bachelor or greater),

      Self-identified as Gay (82%), and

      Not in a long term relationship (51%)

      Not HIV-positive by self-report (91%)

Items*

Please indicate how often the following statements described you during the past 3 months	Test-Retest (N=240)		Main Study (N=1165)	
	M	SD	M	SD
1. I thought of pornography when I was trying to focus on other things	3.04	1.41	3.43	1.77
2. I was upset because I could not stop thinking about pornography	1.77	1.22	2.08	1.63
3. I watched pornography even though I did not want to	2.13	1.47	2.23	1.70
4. It was necessary for me to watch pornography to feel at ease	1.98	1.36	2.27	1.75
5. I could only have an orgasm when watching pornography	2.10	1.44	2.28	1.76
6. I tried to cut down or stop my pornography watching	2.64	1.74	2.77	1.93

*All items ranged from 1 to 7, with 1 = never and 7 = very frequently

Correlation between Items

Item	Measure number					
	1	2	3	4	5	6
Test-Retest Sample (N=240)						
1. I thought of pornography when I was trying to focus on other things	1.00					
2. I was upset because I could not stop thinking about pornography	0.59*	1.00				
3. I watched pornography even though I did not want to	0.48*	0.72*	1.00			
4. It was necessary for me to watch pornography to feel at ease	0.52*	0.68*	0.72*	1.00		
5. I could only have an orgasm when watching pornography	0.35*	0.38*	0.42*	0.55*	1.00	
6. I tried to cut down or stop my pornography watching	0.46*	0.63*	0.63*	0.56*	0.32*	1.00

*$p < 0.001$

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Correlation between Items

Item	Measure number					
	1	2	3	4	5	6
Main Study Sample (N=1165)						
1. I thought of pornography when I was trying to focus on other things	1.00					
2. I was upset because I could not stop thinking about pornography	0.58*	1.00				
3. I watched pornography even though I did not want to	0.49*	0.70*	1.00			
4. It was necessary for me to watch pornography to feel at ease	0.50*	0.62*	0.65*	1.00		
5. I could only have an orgasm when watching pornography	0.38*	0.45*	0.46*	0.52*	1.00	
6. I tried to cut down or stop my pornography watching	0.38*	0.52*	0.55*	0.49*	0.37*	1.00

*$p < 0.001$

Model Fit Statistics

Model fit statistics	Time1 (N=241)			Time2 (N=240)			Test-retest (N=240)			Main Study (N=1165)
	1-factor	2-factor	Item 6 removed	1-factor	2-factor	Item 6 removed	2-factor	Cross-loading[1]	Residual Constrained[2]	
χ^2, df	19.58, 9	3.42, 4	0.45, 1	27.44, 9	7.64, 4	1.85, 1	19.50, 4	4.86, 3	1.82, 2	1.08, 2
p-value	0.03	0.49	0.5	0.001	0.11	0.17	< 0.001	0.18	0.40	0.58
AIC	5037.55	5031.38	4128.72	4730.51	4720.7	3881.76	3636.87	3642.68	3623.64	20375.54
BIC	5100.27	5111.53	4194.93	4793.16	4800.76	3947.89	3692.56	3683.85	3686.29	20466.63
aBIC	5043.22	5038.63	4134.71	4736.1	4727.85	3887.67	3641.85	3629.97	3629.24	20409.46
RMSEA	0.07	0.0	0.0	0.09	0.06	0.06	0.13	0.05	0.00	0.00
(90% CI)	(0.03-0.11)	(0.0-0.09)	(0.0-0.15)	(0.05-0.13)	(0.0-0.13)	(0.0-0.19)	(0.07-0.18)	(0.0-0.13)	(0.0-0.12)	(0.00-0.05)
CFI	0.98	1.00	1.00	0.97	0.99	0.99	097	0.99	1.00	1.00
TLI	0.97	1.00	1.00	0.96	0.98	0.98	093	0.99	1.00	1.00
SRMR	0.03	0.01	0.006	0.03	0.016	0.013	0.03	0.02	0.01	0.004

[1] Item 3 cross loaded on both the factors
[2] Residual correlated item3 with item 1 and item 2

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Model Fit Statistics

Model fit statistics	Time1 (N=241)			Time2 (N=240)			Test-retest (N=240)			Main Study (N=1165)
	1-factor	2-factor	Item 6 removed	1-factor	2-factor	Item 6 removed	2-factor	Cross-loading[1]	Residual Constrained[2]	
χ^2, df	19.58, 9	3.42, 4	0.45, 1	27.44, 9	7.64, 4	1.85, 1	19.50, 4	4.86, 3	1.82, 2	1.08, 2
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RMSEA (90% CI)	0.07 (0.03-0.11)	0.0 (0.0-0.09)	0.0 (0.0-0.15)	0.09 (0.05-0.13)	0.06 (0.0-0.13)	0.06 (0.0-0.19)	0.13 (0.07-0.18)	0.05 (0.0-0.13)	0.00 (0.0-0.12)	0.00 (0.00-0.05)
CFI	0.98	1.00	1.00	0.97	0.99	0.99	097	0.99	1.00	1.00
TLI	0.97	1.00	1.00	0.96	0.98	0.98	093	0.99	1.00	1.00
SRMR	0.03	0.01	0.006	0.03	0.016	0.013	0.03	0.02	0.01	0.004

Model Fit Statistics

Model fit statistics	Time1 (N=241)			Time2 (N=240)			Test-retest (N=240)			Main Study (N=1165)
	1-factor	2-factor	Item 6 removed	1-factor	2-factor	Item 6 removed	2-factor	Cross-loading[1]	Residual Constrained[2]	
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(90% CI)	(0.03-0.11)	(0.0-0.09)	(0.0-0.15)	(0.05-0.13)	(0.0-0.13)	(0.0-0.19)	(0.07-0.18)	(0.0-0.13)	(0.0-0.12)	(0.00-0.05)
CFI	0.98	1.00	1.00	0.97	0.99	0.99	097	0.99	1.00	1.00
TLI	0.97	1.00	1.00	0.96	0.98	0.98	093	0.99	1.00	1.00
SRMR	0.03	0.01	0.006	0.03	0.016	0.013	0.03	0.02	0.01	0.004

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Model Fit Statistics

Model fit statistics	Time1 (N=241)			Time2 (N=240)			Test-retest (N=240)			Main Study (N=1165
	1-factor	2-factor	Item 6 removed	1-factor	2-factor	Item 6 removed	2-factor	Cross-loading[1]	Residual Constrained[2]	
χ^2, df	19.58, 9	3.42, 4	0.45, 1	27.44, 9	7.64, 4	1.85, 1	19.50, 4	4.86, 3	1.82, 2	1.08, 2
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RMSEA (90% CI)	0.07 (0.03-0.11)	0.0 (0.0-0.09)	0.0 (0.0-0.15)	0.09 (0.05-0.13)	0.06 (0.0-0.13)	0.06 (0.0-0.19)	0.13 (0.07-0.18)	0.05 (0.0-0.13)	0.00 (0.0-0.12)	0.00 (0.00-0.05)
CFI	0.98	1.00	1.00	0.97	0.99	0.99	097	0.99	1.00	1.00
TLI	0.97	1.00	1.00	0.96	0.98	0.98	093	0.99	1.00	1.00
SRMR	0.03	0.01	0.006	0.03	0.016	0.013	0.03	0.02	0.01	0.004

[1] Item 3 cross loaded on both the factors
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Model Fit Statistics

Model fit statistics	Time1 (N=241)			Time2 (N=240)			Test-retest (N=240)			Main Study (N=1165)
	1-factor	2-factor	Item 6 removed	1-factor	2-factor	Item 6 removed	2-factor	Cross-loading[1]	Residual Constrained[2]	
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RMSEA (90% CI)	0.07 (0.03-0.11)	0.0 (0.0-0.09)	0.0 (0.0-0.15)	0.09 (0.05-0.13)	0.06 (0.0-0.13)	0.06 (0.0-0.19)	0.13 (0.07-0.18)	0.05 (0.0-0.13)	0.00 (0.0-0.12)	0.00 (0.00-0.05)
CFI	0.98	1.00	1.00	0.97	0.99	0.99	097	0.99	1.00	1.00
TLI	0.97	1.00	1.00	0.96	0.98	0.98	093	0.99	1.00	1.00
SRMR	0.03	0.01	0.006	0.03	0.016	0.013	0.03	0.02	0.01	0.004

Factor Loadings

Item	Test-retest (N=240) Factor Loading		Main Study (N=1165) Factor Loading	
	Factor 1	Factor 2	Factor 1	Factor 2
1. I thought of pornography when I was trying to focus on other things	0.67		0.69	
2. I was upset because I could not stop thinking about pornography	0.88		0.85	
3. I watched pornography even though I did not want to		0.75		0.76
4. It was necessary for me to watch pornography to feel at ease		0.97		0.85
5. I could only have an orgasm when watching pornography		0.57		0.62
Reliability				
subscales	0.74	0.79	0.74	0.78
combined scale	0.85		0.85	
(95% Confidence Interval)	(0.82-0.89)		(0.84-0.86)	

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Sub Scales

CPC with two subscales

- Preoccupation (2 items)
- Compulsion (3 items)

External Validation

Measure	Measure number									
	1	2	3	4	5	6	7	8	9	10
	r	*r*	*r*	*r*	*r*	*r*	*r*	*r*	*r*	*r*
1. CPC- Combined	1.00									
2. CPC- Preoccupation	0.89***	1.00								
3. CPC- Compulsion	0.95***	0.70***	1.00							
4. PCES	-0.01	0.03	-0.03	1.00						
5. PANAS, Positive	-0.08*	-0.03**	-0.11**	0.30***	1.00					
6. PANAS, Negative	0.21***	0.19***	0.20***	-0.03	-0.04	1.00				
7. Marlowe-Crowne[1]	-0.27***	-0.29***	-0.25***	0.07	0.20***	-0.40***	1.00			
8. CSBI	0.53***	0.49***	0.49***	-0.02	-0.06*	0.35***	-0.34***	1.00		
9. IH	0.30***	0.24***	0.30***	-0.18***	-0.14***	0.14**	-0.10*	0.33***	1.00	
10. Sexual self esteem	-0.25***	-0.23***	-0.24***	0.18***	0.30***	-0.32***	0.35***	-0.23***	-0.31***	1.00

*$p < 0.05$; **$p < 0.01$; ***$p < 0.001$

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Comparison with external compulsive measures

Variable	n	CPC-combined score		Preoccupation Score		Compulsion Score	
		M (SD)	$F_{(df)}$	M (SD)	$F_{(df)}$	M (SD)	$F_{(df)}$
Amount of SEM viewed, hr/wk							
≤ 1	236	1.94 (1.11)	$21.84_{(3, 1153)}$*	2.17 (1.28)	$23.97_{(3, 1153)}$*	1.78 (1.17)	$15.35_{(3, 1153)}$*
> 1 – 3.5	410	2.39 (1.31)		2.68 (1.43)		2.20 (1.41)	
> 3.5 – 7	238	2.65 (1.42)		2.93 (1.52)		2.47 (1.56)	
> 7	273	**2.84 (1.41)**		**3.24 (1.60)**		**2.57 (1.50)**	
Condom use preference in SEM							
No preference	409	2.30 (1.34)	$5.64_{(2, 1162)}$**	2.62 (1.50)	$3.20_{(2, 1162)}$*	2.08 (1.41)	$6.13_{(2, 1162)}$**
Condoms	277	2.45 (1.38)		2.75 (1.55)		2.25 (1.45)	
Bareback	479	2.60 (1.35)		2.88 (1.49)		2.42 (1.47)	

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*$p < 0.05$; **$p < 0.01$; ***$p < 0.001$

Comparison with external compulsive measures

Variable	n	CPC-combined score		Preoccupation Score		Compulsion Score	
		$M\ (SD)$	$F_{(df)}$	$M\ (SD)$	$F_{(df)}$	$M\ (SD)$	$F_{(df)}$
Amount of SEM viewed, hr/wk							
≤ 1	236	1.94 (1.11)	$21.84_{(3,\ 1153)}$*	2.17 (1.28)	$23.97_{(3,\ 1153)}$*	1.78 (1.17)	$15.35_{(3,\ 1153)}$*
$> 1 - 3.5$	410	2.39 (1.31)		2.68 (1.43)		2.20 (1.41)	
$> 3.5 - 7$	238	2.65 (1.42)		2.93 (1.52)		2.47 (1.56)	
> 7	273	2.84 (1.41)		3.24 (1.60)		2.57 (1.50)	
Condom use preference in SEM							
No preference	409	2.30 (1.34)	$5.64_{(2,\ 1162)}$**	2.62 (1.50)	$3.20_{(2,\ 1162)}$*	2.08 (1.41)	$6.13_{(2,\ 1162)}$**
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Bareback	479	2.60 (1.35)		2.88 (1.49)		2.42 (1.47)	

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*$p < 0.05$; **$p < 0.01$; ***$p < 0.001$

Comparison with external compulsive measures

Variable	n	CPC-combined score		Preoccupation Score		Compulsion Score	
		M (SD)	Z^1	M (SD)	Z^1	M (SD)	Z^1
Heavy alcohol use in the last 30 days							
No	840	2.43 (1.35)	-2.085*	2.72 (1.50)	-1.86	2.31 (1.44)	-1.64
Yes	73	2.61 (1.13)		2.96 (1.38)		2.38 (1.26)	
Number of total life time sex partners							
60 or less	835	2.50 (1.39)	1.90	2.81 (1.52)	1.90	2.30 (1.49)	1.45
More than 60	286	2.31 (1.26)		2.62 (1.47)		2.11 (1.30)	

[1]Two-sample Wilcoxon rank-sum (Mann-Whitney) test
*$p < 0.05$; **$p < 0.01$; ***$p < 0.001$

Comparison with external compulsive measures

Variable	n	CPC-combined score		Preoccupation Score		Compulsion Score	
		M (SD)	Z^1	*M (SD)*	Z^1	*M (SD)*	Z^1
Heavy alcohol use in the last 30 days							
No	840	2.43 (1.35)	-2.085*	2.72 (1.50)	-1.86	2.31 (1.44)	-1.64
Yes	73	2.61 (1.13)		2.96 (1.38)		2.38 (1.26)	
Number of total life time sex partners							
60 or less	835	2.50 (1.39)	1.90	2.81 (1.52)	1.90	2.30 (1.49)	1.45
More than 60	286	2.31 (1.26)		2.62 (1.47)		2.11 (1.30)	

[1]Two-sample Wilcoxon rank-sum (Mann-Whitney) test

*$p < 0.05$; **$p < 0.01$; ***$p < 0.001$

Comparison with external compulsive measures

		CPC-combined score		Preoccupation Score		Compulsion Score	
Variable	n	M (SD)	$F_{(df)}$	M (SD)	$F_{(df)}$	M (SD)	$F_{(df)}$
Age at first sex with a male							
13 years or younger	235	2.29 (1.29)	$-2.05_{(1152)}$*	2.62 (1.49)	$-1.55_{(1152)}$	2.10 (1.31)	$-2.14_{(1152)}$*
Older than 13 years	919	2.49 (1.38)		2.79 (1.52)		2.30 (1.48)	
Number of partners in the last 90 days							
4 or less	898	2.40 (1.34)	$-2.24_{(1148)}$*	2.69 (1.49)	$-2.64_{(1148)}$**	2.21 (1.43)	$-1.66_{(1148)}$
More than 4	252	2.62 (1.40)		2.97 (1.55)		2.38 (1.47)	
Engage in UAI with casual partners in the last 90 days							
No	828	2.43 (1.36)	$-0.52_{(1145)}$	2.73 (1.52)	$-0.60_{(1145)}$	2.23 (1.45)	$-0.39_{(1145)}$
Yes	319	2.48 (1.33)		2.79 (1.48)		2.27 (1.41)	

*$p < 0.05$; **$p < 0.01$; ***$p < 0.001$

Comparison with external compulsive measures

Variable	n	CPC-combined score		Preoccupation Score		Compulsion Score	
		$M\ (SD)$	$F_{(df)}$	$M\ (SD)$	$F_{(df)}$	$M\ (SD)$	$F_{(df)}$
Age at first sex with a male							
13 years or younger	235	2.29 (1.29)	$-2.05_{(1152)}*$	2.62 (1.49)	$-1.55_{(1152)}$	2.10 (1.31)	$-2.14_{(1152)}*$
Older than 13 years	919	2.49 (1.38)		2.79 (1.52)		2.30 (1.48)	
Number of partners in the last 90 days							
4 or less	898	2.40 (1.34)	$-2.24_{(1148)}*$	2.69 (1.49)	$-2.64_{(1148)}**$	2.21 (1.43)	$-1.66_{(1148)}$
More than 4	252	2.62 (1.40)		2.97 (1.55)		2.38 (1.47)	
Engage in UAI with casual partners in the last 90 days							
No	828	2.43 (1.36)	$-0.52_{(1145)}$	2.73 (1.52)	$-0.60_{(1145)}$	2.23 (1.45)	$-0.39_{(1145)}$
Yes	319	2.48 (1.33)		2.79 (1.48)		2.27 (1.41)	

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$*p < 0.05; **p < 0.01; ***p < 0.001$

Comparison with external compulsive measures

Variable	n	CPC-combined score		Preoccupation Score		Compulsion Score	
		$M\ (SD)$	$F_{(df)}$	$M\ (SD)$	$F_{(df)}$	$M\ (SD)$	$F_{(df)}$
Age at first sex with a male							
13 years or younger	235	2.29 (1.29)	$-2.05_{(1152)}$*	2.62 (1.49)	$-1.55_{(1152)}$	2.10 (1.31)	$-2.14_{(1152)}$*
Older than 13 years	919	2.49 (1.38)		2.79 (1.52)		2.30 (1.48)	
Number of partners in the last 90 days							
4 or less	898	2.40 (1.34)	$-2.24_{(1148)}$*	2.69 (1.49)	$-2.64_{(1148)}$**	2.21 (1.43)	$-1.66_{(1148)}$
More than 4	252	2.62 (1.40)		2.97 (1.55)		2.38 (1.47)	
Engage in UAI with casual partners in the last 90 days							
No	828	2.43 (1.36)	$-0.52_{(1145)}$	2.73 (1.52)	$-0.60_{(1145)}$	2.23 (1.45)	$-0.39_{(1145)}$
Yes	319	2.48 (1.33)		2.79 (1.48)		2.27 (1.41)	

*$p < 0.05$; **$p < 0.01$; ***$p < 0.001$

Discussion

- 5-item brief screening instrument is psychometrically acceptable to assess compulsive SEM consumption in MSM.

- The measure contains two factors
  - obsessive thoughts or preoccupation with pornography,
  - compulsive or problematic pornography use

Discussion (Cont.)

- Compulsive SEM consumption is NOT associated with

  – Higher number of lifetime sexual partners

  – UAI with a casual partner

 ≠ HIV risk behavior

Limitation

- Cross-sectional Study

- Lack of 'gold-standard' clinical assessment

- the preoccupation sub-scale contains only two items

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Thank you and wishing you good sexual health!

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