

What Research is Telling Us about Body Worn Camera Practice

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This material was supported by Grant No. 2019-BC-BX-K001 awarded by the Bureau of Justice Assistance (BJA). BJA is a component of the U.S. Department of Justice Office of Justice Programs. Points of view or opinions contained herein do not necessarily represent the official position or policies of the U.S. Department of Justice.



An Examination of the Prevalence and Predictors of Police Body-Worn Camera Activation

Jessie Huff

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Impetus for adopting BWCs



- Widespread calls for police reform
- Implementation of BWCs to increase transparency and accountability
- Early evidence of BWC effectiveness



Challenges realizing the promise of BWCs



Officer failure to activate

- Results in:
 - Loss of evidence
 - Undermines "civilizing effect"
 - Public concerns
- Is an implementation failure

PUBLIC SAFETY

Many San Diego police officers didn't activate bodyworn cameras when they were supposed to, report finds

The San Diego Union-Tribune



San Diego Police Department officers outfitted with body camerus make a traffic stop along El Cajon Boulevard. (Sam Hodgson / The San Diego Union Tribune)

Between 15 and 40 percent of officers sent to enforcement encounters failed to press the record button from October 2020 through September 2021

BY LYNDSAY WINKLEY JULY 20, 2022 9:21 PM PT

MEATHER Have plans to fly to Florida? Tropical Storm Idalia could reroute your trip Aug. 20, 2023 NATION-WORLD 8 US Marines remain in a hospital after a fiery aircraft crash killed 3 during drills in Australia Aug. 28, 2023 PUBLIC SAFETY Police: 2 arrested after handgun thrown into San Diego Bay during pursuit Aux. 27, 2023 PUBLIC SAFETY Pedestrian struck by pickup, seriously injured in Redwood Village Aug. 27, 2023

BREAKING >

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MOST READ NEWS STORIES \rightarrow



Prior research examining BWC activation



Activation of Body-Worn **Cameras: Variation** by Officer, Over Time, and by Policing Activity

Article

Abstract

Keywords

with correlational analyses a

Criminal Justice Review 2019, Vol. 44(3) 339-355 © 2019 Georgia State University Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/0734016819846228 ournals sarepub **SAGE**

Daniel S. Lawrence¹, David McClure², Aili Malm³, Mathew Lynch⁴, and Nancy La Vigne Article

Activate Compliance:

Criminal Justice Review 2022, Vol. 47(1) 103–118 © 2021 Georgia State University Article reuse guidelines: This study assessed the early (BWC) program in 2015 by e A Multilevel Study of Factors seepub com/journals-perm OOI: 10.1177/07340168209 ournals.sagepub.com/home/cj time, and how different police Associated With Activation **SAGE** Activation of the BWCs am of Body-Worn Cameras

from 0% to 72%. Average a proportionately activated the for other categories were sig from 0.148 to 0.663. The arti Rémi Boivin^{1,2}, Brigitte Poirier^{1,2}, and Maurizio D'Elia³ limits the potential benefits o to activate their BWCs, law JUSTICE OUARTERLY their officers but also audit a 2023, VOL. 40, NO. 3, 315-336 Abstract

Routledge Taylor & Francis Group Check for update

concerns that officers wo that an intervention wou The Achilles Heel of Police Body-Worn Cameras: Police departments' use of bo excessive use of force-pc Understanding the Factors That Influence Variation in years. Despite being a relative activation trends during a Body-Worn Camera Activation BWCs, prompted in large pa mental policies over time a transparency, as well as sizabl situations where, based or the fastest technologies adopt linear mixed models, came Charles M. Katza (1) and Jessica Huffb (1) identifying how to best implen civilian encounters and of ^aCenter for Violence Prevention and Community Safety, School of Criminology and Criminal Justice,

https://doi.org/10.1080/07418825.2022.2071325

suspicions of voluntary n¹ "Center for violence revenuon and community activity, and commonly and Criminology and Criminal Justice, University relations, this article conc of Nebraska at Omaha, Omaha, NE, USA

Keywords body-worn video, activatio

Body-worn cameras (BW

BWCs have the capacity

police, body-worn cameras, I concerns, cameras must b

ABSTRACT ARTICLE HISTORY While body-worn cameras (BWCs) are increasingly becoming com-Received 26 September 2021 monplace in police organizations, researchers and policymakers Accepted 22 April 2022 still know little about their implementation in the field and the KEYWORD factors related to their actual use. Using data collected from Police; body-worn carnera 146,601 incidents in Phoenix, Arizona, the present study examines BWC; activation; compliance the prevalence and correlates of BWC activation. In doing so, we examine the impact of incident-level factors, officer characteristics, neighborhood context, and changes in BWC activation policy on whether an officer who is assigned to wear a BWC activates their camera during a police-citizen contact. Cross-classified models are used to simultaneously assess the influence of factors at multiple levels of explanation. Our analysis suggests that a wide variety of individual, situational, organizational, and neighborhood factors are related to an officer's decision to activate their camera. BWC policy that confines, structures, and checks officer activation has a robust impact on an officer's decision to activate their BWC.

- Examined activation at the incident level
- Found higher odds of activation during violent incidents
- Male officers more likely to activate
- Variation in officer-level activation rates. ranging from 0-72% in Anaheim



Prior activation research suggests that incident-level factors matter



Prior activation research suggests that incident-level factors matter

But we do not know whether officer characteristics influence activation rates

Current study

Research questions



Is there notable variation in officer-level BWC activation rates across:

- Officer characteristics (sex, race, education)?
- > Features of officers' assignments (years of service, precinct, shift)?
- Other indicators of police performance (proactivity, arrests, complaints, use of force)?

Data



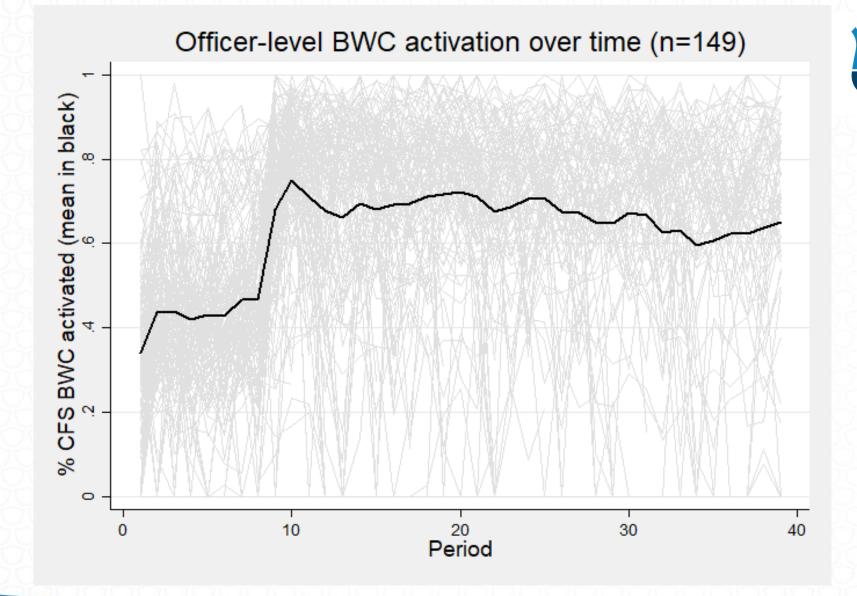
- Phoenix Police Department data from an 18-month study of BWCs
 - BWC activation meta-data
 - Demographic information
 - Assignment information
 - Calls-for-service data
 - Arrest reports
 - Complaints
 - Use of force reports

Outcomes of interest



- The number of times an officer activated their BWC
 - Mean = 63.0% of all calls for service
- Trends in officer activation over time
 - Decreased activation (29.5%)
 - > No change (49.7%)
 - Increased activation (20.8%)

Results





Predicting activation counts



- Officer demographics
 - Men have higher activation counts (IRR=1.53; p<0.05)
- Officer job-related characteristics
 - No significant relationships
- Officer performance
 - No significant relationships
- Full model
 - Officers in Central City have lower activation (IRR=0.56; p<0.05)

Officer activation over time (n = 149)



Starting activation rate	Ending activation rate				
	Low	Average	High		
Low (13.4%)	4.0%	6.0%	3.4%		
Average (71.2%)					
High (15.4%)		11200000	100000		

Officer activation over time (n = 149)



Starting activation rate	Ending activation rate				
	Low	Average	High		
Low (13.4%)	4.0%	6.0%	3.4%		
Average (71.2%)	16.8%	43.0%	11.4%		
High (15.4%)			00000		

Officer activation over time (n = 149)



Starting activation rate	Ending activation rate				
	Low	Average	High		
Low (13.4%)	4.0%	6.0%	3.4%		
Average (71.2%)	16.8%	43.0%	11.4%		
High (15.4%)	4.0%	8.7%	2.7%		

Predicting change in activation



- Officer demographics
 - No significant relationships, though men more likely to increase than decrease (RRR=7.67)
- Officer job-related characteristics
 - South Mountain (RRR=0.10; p<0.05) and swing shift (RRR=0.24; p<0.05) officers less likely to increase than decrease
- Officer performance
 - Those with more arrests more likely to increase (RRR=1.01; p<0.05) than decrease
- Full model
 - South Mountain still less likely to increase (RRR=0.11; p<0.05) than decrease over time

Discussion

Limited influence of officer factors



- It doesn't matter:
 - > Who the officer is
 - Where they work
 - > What other behaviors they engage in

Activation as a response to incident characteristics



- Consistent with prior research
- Suggests activation depends on what is happening in the moment

Recommendations for increasing activation

• Focus on incidents resulting in low compliance

Thank you!

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The Impact Of Body-worn Cameras On Police Accountability & Adjudication Of Citizen Complaints

Nusret M. Sahin, Ph.D. Assistant Professor of Criminal Justice Stockton University, NJ

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Why police use BWCs?

- Documenting evidence
- Training Officers
- Improving Citizen & Officer Behavior
- •Strengthening Accountability and Transparency
- Reducing & Resolving Complaints
- Providing an independent view on events
- Protecting officers from frivolous complaints



Adjudication of Citizen Complaints

RESEARCH # 1

The Effect of Body-Worn Cameras on the Adjudication of Citizen Complaints of Police Misconduct

Suat Cubukcu, Nusret Sahin, Erdal Tekin & Volkan Topalli(2023) Justice Quarterly, DOI: <u>10.1080/07418825.2023.2222789</u>

Adjudication of Citizen Complaints

Table 2. Estimates of the effect of Body Worn Cameras on complaint outcomes.

	Not Sustained	Sustained
Panel A		
BWC	-0.055	0.099*
	(0.054)	(0.052)
Panel B		
1 quarter post BWC	0.015	-0.046
	(0.099)	(0.098)
2 quarters post BWC	-0.122*	0.210**
	(0.069)	(0.090)
3 quarters post BWC	-0.169***	0.151*
	(0.050)	(0.085)
4 quarters post BWC	-0.001	0.202**
	(0.074)	(0.076)
5 or more quarters post BWC	-0.112*	0.098
	(0.063)	(0.077)
Number of Observations	2,117	2,117

Notes: Robust standard errors clustered at the district level are in parentheses.

*, **, and *** indicate statistical significance at the 10%, 5%, and 1% levels, respectively.

Table 3. Estimates of the effect of Body Worn Cameras on complaint outcomes by race and ethnicity.

Variable	Not Sustained	Sustained 0.125		
BWC	0.071			
	(0.092)	(0.102)		
Black Complainant	0.165***	-0.112***		
	(0.051)	(0.037)		
Hispanic Complainant	0.156**	-0.087*		
	(0.068)	(0.047)		
BWC*Black Complainant	-0.162*	-0.005		
	(0.088)	(0.078)		
BWC*Hispanic Complainant	-0.165	-0.067		
	(0.125)	(0.101)		
Number of Observations	2,117	2,117		

Notes: Robust standard errors clustered at the district level are in parentheses. *, **, and *** indicate statistical significance at the 10%, 5%, and 1% levels, respectively.

D ATA :



•Citizen complaint data from the Chicago Police Department and Civilian Office of Police Accountability filed between 2013-2020

•Staggered deployment of cameras in 22 districts in 2016 and 2017 to estimate the effect

FINDINGS:Providing evidence of misconduct

•Fewer dismissals of complaints against officers

More disciplinary action
Reduction in disparity in complaint
outcomes across racial groups
Remedy racial disparities in complaint resolution outcomes

•Complaints by Black citizens were taken as seriously as those by Whites.

Strengthening Accountability and Transparency

RESEARCH # 2

The Impact of BWCs on Enhancing Transparency and Accountability in Policing: The EPJETS Model



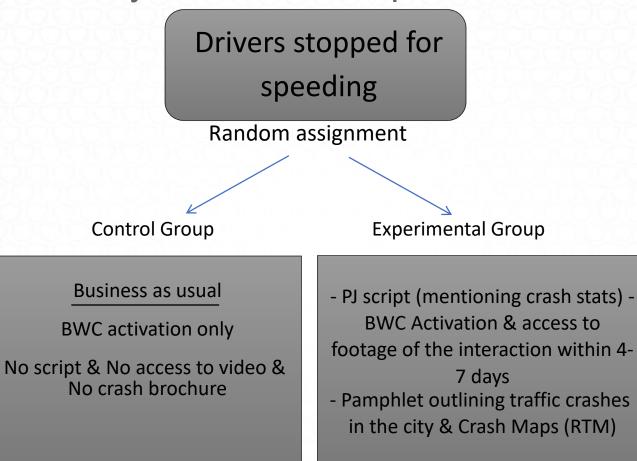
Nusret M. Sahin, Principal Investigator

The EPJETS project was supported by Award No. 15PNIJ-21-GG-02718-RESS, awarded by the National Institute of Justice, U.S. Department of Justice. The opinions, findings, and conclusions or recommendations presented are those of the presenter and do not necessarily reflect those of the

Department of Justice.

The Impact of Body-Worn Cameras on Police Accountability: Citizen Perceptions





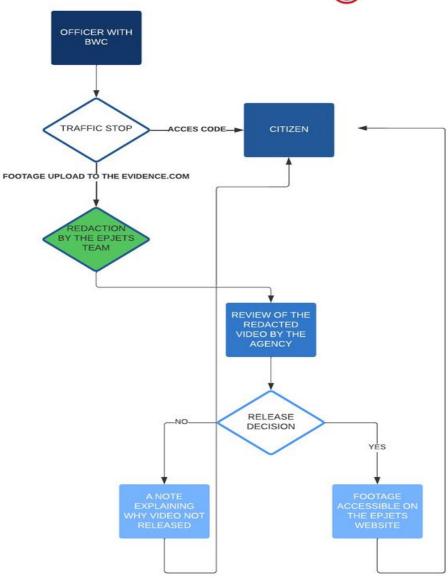
Combining the best of procedural justice practices with use of BWC/release of

footage

1

EPJETS WORKFLOW DIAGRAM





•A code and website address is given to the driver

•The research team redacts the video to

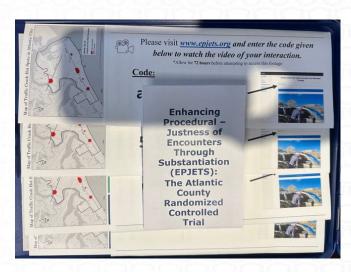
protect the privacy of bystanders, blurs

faces/plate numbers (if needed)

•Video is sent it to the ACPD and PPD for their approval

•The video is uploaded onto the project's website





The Impact of Body-Worn Cameras on Police Accountability



Findings

Variables		T-test	Mean (Exp./Cont.)
DV: Overall perceptions of police			
professionalism, attributed to the BWC	Significanc	S	Exp: 1.35
usage by officers. IV: Experimental	e (p)	(<0.001)	Cont: 1.69
Condition (N=349)			
DV: Encounter specific perceptions of police			
professionalism, attributed to the BWC	Significanc	S	Evp: 1.88
usage by officers. IV: Experimental	Significanc e (p)	s (<0.001)	Exp: 1.88 Cont: 2.31
Condition (N=350)			

Comparison of Experimental and Control Responses

•Stronger Perceptions of Police Professionalism when drivers are informed about the recording & access to footage

•Overall Perceptions of BWC Professionalism Question:

"I believe police officers with body worn cameras act more

professionally."

•Encounter Specific Perceptions of BWC Professionalism Question:

"I think police officer that I interacted with today acted more professionally because he/she was wearing a body camera."

*Likert scale used. The lowest score (1) indicate highest level of agreement with the given statement.



THANK YOU



What Research is Telling Us About Body-Worn Camera Practice

Results from the Anaheim and Milwaukee Police Departments and the Loudoun County Adult Detention Center

Dan Lawrence, Senior Research Scientist, CNA

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Three Studies

- Anaheim Police Department
 - 2015–2017
 - Pilot BWC program: Random Controlled Trial (RCT) of 60 officers, 40 of whom received BWCs
- Milwaukee Police Department
 - 2015–2019
 - Large RCT with 504 officers, quasi-experimental with 1,100 officers
- Loudoun County Adult Detention Center
 - 2019–2023
 - First RCT of BWCs in a correctional facility (12 units)

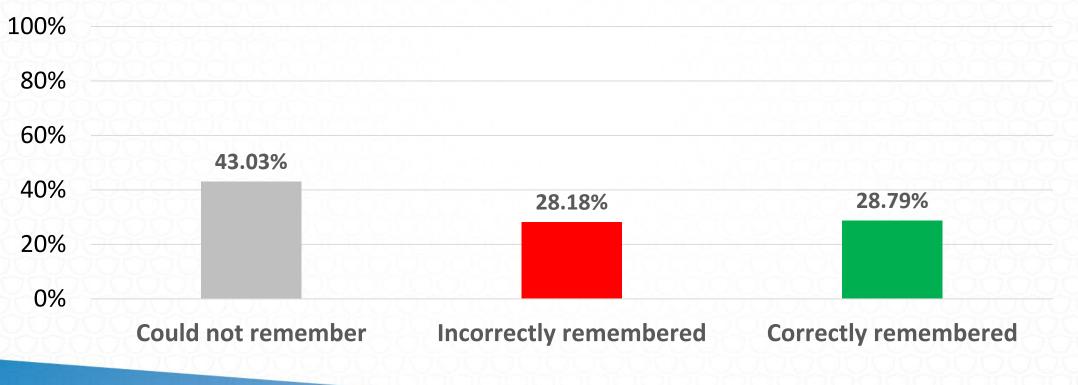


Anaheim Study: BWC Recall



Community members do not accurately recall the presence of a BWC

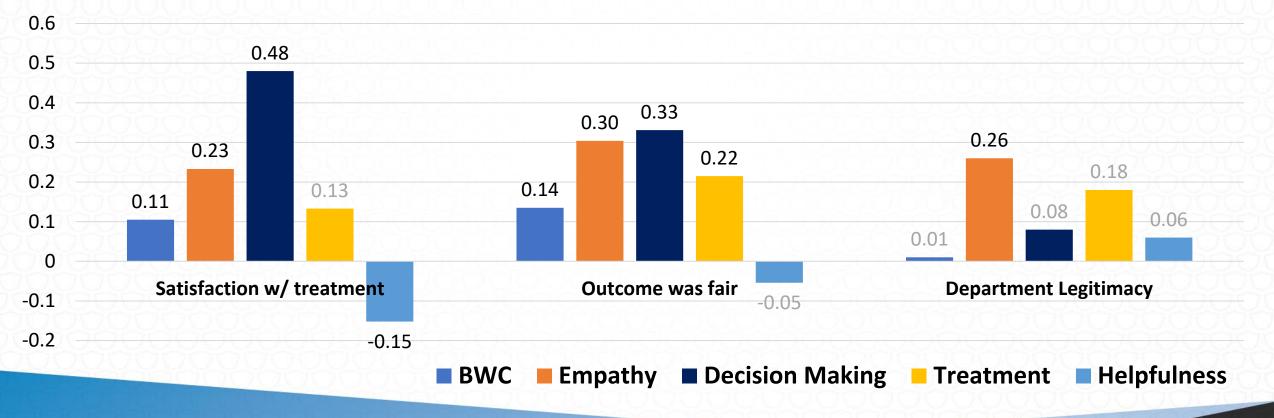
Do you remember if the officer was wearing a body camera? (n=384)



Anaheim Study: Procedural Justice



 BWCs help perceptions of the interaction, but procedural justice behaviors are more important



Anaheim Study: BWC Activation



BWC activation varies by officer, policing event, and over time

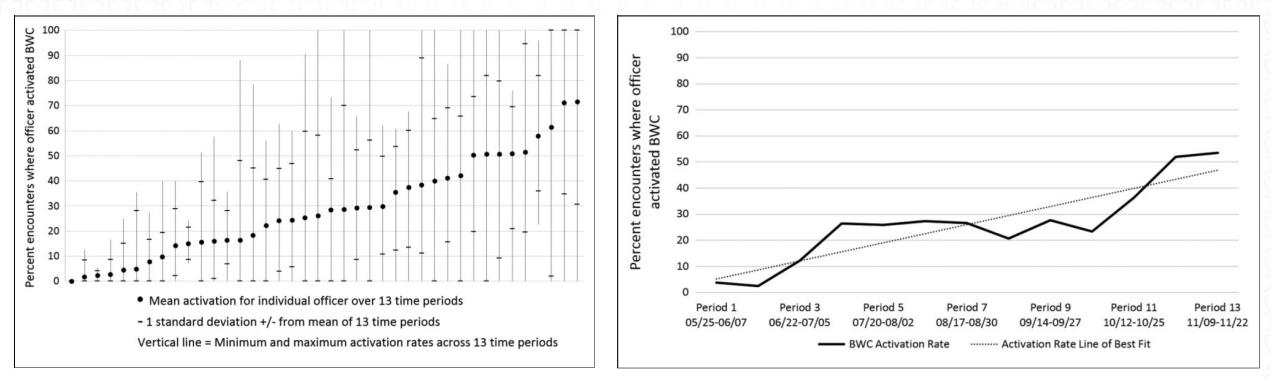


Figure 1. Officer mean body-worn camera activation rates, with time period variation.

Figure 2. Time period group mean body-worn camera activation rates.

Milwaukee Study: Impact



- Proactive Activities
 - No change to total amount of these activities, traffic stops, or business checks
 - 8% fewer subject stops, 23% more park and walks
- Complaints
 - Among RCT officers (n=504): 51% fewer complaints (p < .10)
 - Among all officers (n=1,100): 29% fewer complaints overall, each additional month that an officer is equipped with a camera results in a 6% reduction in their number of monthly complaints
- Use of force
 - Among RCT officers (n=504): No change
 - Among all officers (n=1,100): No change overall. Officers had 15% fewer uses of force in the month after receiving a BWC but then engaged in 2% more use of force incidents for each subsequent month they had a camera

Milwaukee Study: Community Perspectives



- Three waves of community surveys (n=2,035)
- Knowledge of BWC program increased over time from 36% to 76%
- Knowledge of BWC program increased views of department legitimacy
- Knowledge of BWC program does not relate to support for the BWCs
- Views of department legitimacy increased views of support for BWCs

Loudoun Study: Impact



- First RCT of BWCs in a correctional facility
- Responses to Resistance (RTR)
 - The amount of RTR events was 40% lower in unit-months with BWCs
 - No change in amount of RTRs involving passive or aggressive resistance; however, 52% fewer RTRs involving active resistance
 - No change in amount of RTRs involving restraint or weapon controls; however, 37% fewer RTRs involving physical controls
- Injuries
 - Injury rate among RTR was 19% (18 of the 97 RTRs)
 - The amount of injuries during RTR events was 58% lower in unit-months with BWCs

Loudoun Study: Deputy Perspectives



• 3 waves of surveys with deputies (n=117, 84, 87)

Table 5. Change in deputy perspectives

			Means			Mean Differences		
Domains	# Items	Scale Alpha	Pre	Mid	Post		Mid- Post	Pre- Post
Efficiency and Accuracy	8	.89	2.99	2.95	3.00	-0.04	0.05	0.01
Resident Civilizing Effect	3	.94	2.61	2.38	2.61	-0.23	0.23	0.00
Work disruptions	5	.69	2.77	2.85	2.70	0.08	-0.15	-0.07
Resident-deputy relationships	5	.81	3.69	3.31	3.44	-0.37 *	0.12	-0.25 *
		-						

Notes: All scales and items used a 5-point Likert response scale, where 1 = strongly disagree, 2 = disagree, 3 = neither agree nor disagree, 4 = agree, and 5 = strongly agree. * p < .01

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Thank You

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