Correction


The authors wish to note the following: “The analysis contains a subtle statistical issue that warrants a reanalysis of the data using a different methodology. The outcome variables in the analysis are the frequency of complaints, sustained or settled complaints, and use of force by cluster-month. The analysis used the trend in the outcomes among later-trained clusters to estimate the counterfactual outcomes for earlier-trained clusters. However, later-trained clusters consist of fewer officers than earlier-trained clusters and the outcomes are in secular decline throughout the study period. Consisting of fewer officers, the later-trained clusters undergo a relatively small decrease in the frequency of the outcomes due to the secular decline. The counterfactual outcomes for the early-trained clusters are guided by this relatively small decrease. However, we should expect the counterfactual outcomes to undergo a larger secular decline among early-trained clusters because these clusters contain more officers, on average.

“This issue was documented and brought to our attention by Jonathan Roth and Pedro H.C. Sant’Anna. A reanalysis of the data, produced in collaboration with Roth and Sant’Anna, is available online at: https://osf.io/preprints/socarxiv/xf32m/ (1). The reanalysis uses officer-level outcomes and the estimation procedure in Callaway and Sant’Anna (2). With data made available since publication, we also extended the panel by an additional 9 mo to cover the entire roll-out of training. Data and code for the reanalysis is available at: https://github.com/george-wood/procedural_justice_revisited.

“The reanalysis provides evidence that training reduced use of force, but with some uncertainty around the magnitude of the effect. Officers reported using force 0.047 times per month in the 12 mo before training, an average of 363 uses of force per month across the 7,785 officers. The simple weighted average ATT (SWATT) is -0.011 (95% CI: -0.020, -0.001) uses of force per officer month. At the low end, the reduction of force would result in 8 fewer uses of force per month across all officers, while at the high end the average reduction would result in 156 fewer uses of force per month.

“The reanalysis does not provide statistically significant evidence of an effect on complaints or sustained complaints. Officers received 0.044 complaints per month in the 12 mo before training. The SWATT is -0.005 (95% CI: -0.013, 0.003) complaints per officer-month. Although the magnitude of this effect is meaningful, given the uncertainty in the estimate it would be unwarranted to rule out the possibility that training had no effect on complaints. The SWATT is near zero for sustained and settled complaints (95% CI: -0.002, 0.002).” The corrected Fig. 2 and its legend, based on the reanalysis and updated data, appears below.

Fig. 2.  (Top) Observed and counterfactual estimates of complaints, sustained or settled complaints, and use of force per 100 officers per month. Months are relative to the onset of training. The counterfactual estimate is the dynamic ATT subtracted from the observed outcome. The estimates are based on the reanalysis using the procedure in Callaway and Sant'Anna (2) and the extended panel data. (Bottom) Dynamic ATT per officer by month relative to training. Monthly ATT estimates are colored according to their value relative to zero. 95% pointwise confidence intervals are shown in blue and 95% simultaneous confidence intervals, which account for multiple-hypothesis testing, are shown in gray.

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Procedural justice training reduces police use of force and complaints against officers

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Existing research shows that distrust of the police is widespread and consequential for public safety. However, there is a shortage of interventions that demonstrably reduce negative police interactions with the communities they serve. A training program in Chicago attempted to encourage 8,480 officers to adopt procedural justice policing strategies. These strategies emphasize respect, neutrality, and transparency in the exercise of authority, while providing opportunities for civilians to explain their side of events. We find that training reduced complaints against the police by 10.0% and reduced the use of force against civilians by 6.4% over 2 y. These findings affirm the feasibility of changing the command and control style of policing which has been associated with popular distrust and the use of force, through a broad training program built around the concept of procedurally just policing.

Procedural justice | Policing | Misconduct | Complaints | Force

The August 9, 2014 police shooting of unarmed civilian Michael Brown in Ferguson, MO, gained national prominence by highlighting police use of excessive force. What was unusual about this event was not that it happened, since the level of police shootings has been more or less constant for years (1), but the scale of publicity it drew to the use of force in American policing. Such shootings are only the highly visible top of a spectrum of perceived police abuses of authority, beginning with asserting dominance via demeaning, disrespectful, and harassing treatment and escalating to involve the use of clubs, tasers, and, in some cases, guns. The justifiability of any particular instance of the use of force can be debated, but there have been a number of suggestions that the police in America today overuse command and control techniques, which emphasize dominance via the threat or use of force, and that better strategies for managing interactions with the public in ways which build public trust and deescalate hostility and conflict need to be identified and incorporated into American policing (2–6).

The case for developing new strategies for policing is articulated in President Obama’s Task Force on 21st Century Policing report (7). This report argues that popular legitimacy should be the first pillar of contemporary policing. It has led to efforts to identify ways to implement this agenda by the International Association of Chiefs of Police (8) and by the US Department of Justice (9). This examination of the research literature is a viable strategy for decreasing harmful policing practices and building popular legitimacy.

Significance

Police misconduct and use of force have come under increasing scrutiny and public attention. The procedural justice model of policing, which emphasizes transparency, explaining policing actions, and responding to community concerns, has been identified as a strategy for decreasing the number of interactions in which civilians experience disrespectful treatment or the unjustified use of force. This paper evaluates whether a large-scale implementation of procedural justice training in the Chicago Police Department reduced complaints against police and the use of force against civilians. By showing that training reduced complaints and the use of force, this research indicates that officer retraining in procedural justice is a viable strategy for decreasing harmful policing practices and building popular legitimacy.

Author contributions: G.W., T.R.T., and A.V.P. designed research; G.W. performed research; G.W. analyzed data; and G.W., T.R.T., and A.V.P. wrote the paper. The authors declare no competing interest.

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Data deposition: Data and code for reproducing the analyses presented in this paper are available on GitHub, https://github.com/george-wood/proceduraljustice.


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The staggered adoption of procedural justice training in the CPD highlights the importance of interpersonal aspects of policing interactions and provides officers with detailed templates for approaching civilians in ways that are respectful and minimize conflict, which should reduce the frequency of interactions in which civilians feel that they have been treated with discourtesy or disrespect. The training syllabus also emphasizes behavioral models that avoid force escalation and instead gain compliance through nonforceful approaches, reducing the likelihood that officers will rely on the use of force in civilian interactions.

The key question is whether police training can change police behavior. Several efforts to evaluate procedural justice training provide tentative evidence that it can. Skogan et al. (15) found that participation in the Chicago training program studied here increased police officers’ expressed support for using procedural justice strategies in the community. Rosenbaum and Lawrence (16) found that procedural justice training changed cadet behavior during scenarios involving interactions with people in the community. Antrobus et al. (17) found similar positive effects of procedural justice training on officer attitudes and on-the-job behavior in a sample of Australian police officers. And Owens et al. (18) found that procedural justice training led to lower levels of use of force against people in the community among a group of Seattle police officers.

While each of these studies supports the value of procedural justice training, they have important limits. Only two consider behavior in the community, and both of these use small samples (16, 18). Further, Owens et al. (18) focus upon one-on-one training by a supervisor for officers engaging in civilian encounters in small geographic areas, or “hot spots,” with high crime rates. None of these studies speaks to the key policy question: Can a police department change the nature of officer behavior across a large number of officers using a training program that can realistically be implemented? In the current study, the intervention was possible because officers were only taken out of the community for one training day. Without a viable training model, the call for strategies that involve building popular legitimacy must look at other avenues besides training to change police behavior. At this time, there is not strong evidence that training can influence general police behavior in the field.

Results

We evaluated the rollout of procedural justice training in the CPD to conduct a broad assessment of changes in officer field behavior. Beginning in January 2012 and continuing through March 2016, the CPD assigned 8,480 officers to a 1-d training session on procedurally just policing strategies. A further 138 officers were trained after March 2016, when the evaluation period ended. In the training session, officers were introduced to the various ideas associated with procedural justice and its implementation in their everyday work. See SI Appendix for the training syllabus and an overview of the training implementation.

The rollout of training constitutes a staggered adoption design where, instead of units being assigned to a treatment arm and a control arm at a fixed point in time, all officers are assigned to training, but the date on which training is undertaken varies. Once trained, officers remain in the trained condition thereafter. Fig. 1 shows the staggered adoption of training. Following a pilot training session in month 13, the rollout occurred in two phases, from months 18 to 34 and 41 to 63. SI Appendix contains further details on the staggered adoption of training and a graphical summary of the training rollout. To evaluate the effects of training on officer behavior, we combined information about when officers participated in training with records of complaints regarding officer conduct, settlement payouts following civil litigation, and mandatory officer-filed use of force reports.

To estimate the effect of training on these outcomes, we clustered officers according to the date on which they participated in procedural justice training. For the 8,618 officers nested in the N = 327 training clusters, we obtained data on all complaints received and all mandatory use of force reports filed in each of the T = 63 mo from January 2011 to March 2016. We obtained data on whether complaints were sustained or resulted in a settlement payout for the T = 58 mo from January 2011 to October

![Fig. 1. The staggered adoption of procedural justice training in the CPD; 8,480 officers were trained in 305 clusters across 49 mo. Once trained, clusters shift from the pretraining to the training condition. The rollout consisted of an initial pilot training program in month 14, followed by a first training phase from months 18 to 34, a 6-mo period in which no training occurred, and a second training phase from months 41 to 63. The study period ends at month 63, the last month for which outcome data are available, such that the 22 clusters trained after month 63 remain in the control condition throughout. The frequency of officers trained per month is shown in the top margin. In this visualization, we grouped clusters by the month in which they were trained. The frequency of clusters per training month is shown in the right margin.](#)
2015. In the resulting time series cross-sectional data, $Y_{it}$, we consider inference on the training effect as a problem of counterfactual estimation in which we seek to ascertain what the posttraining observations would have been under the counterfactual scenario in which the cluster had not been trained. By leveraging variation in the timing of training due to the staggered adoption, we draw on the full observed data to establish the counterfactual: Within each cluster, the pretraining observations inform the posttraining counterfactual estimates; within each month, clusters in the pretraining condition act as controls for clusters in the posttraining condition. For complaints and use of force, the 22 clusters containing 138 officers trained after March 2016 remain in the control condition throughout the evaluation (Fig. 1). For sustained and settled complaints, 33 clusters containing 244 officers trained after October 2015 remain in the always-control condition. If training reduced police misconduct and use of force, then we would expect the observed frequency $Y_{it}(1)$ of complaints, sustained or settled complaints, and force reports for trained clusters to be lower in the posttraining periods than the counterfactual estimates $Y_{it}(0)$.

We estimate the training effects using an interactive fixed effects (IFE) model (19). We present estimates of the average treatment effect on the treated (ATT) per 100 officers per month as well as the cumulative ATT, which represents the total change in complaints, sustained or settled complaints, or use of force in the 24 mo following training. Details on the IFE model are provided in Materials and Methods.

The results of our evaluation indicate that procedural justice training was successful in reducing police misconduct as measured by the frequency of complaints filed against officers. Table 1 reports that training reduced the frequency of complaints received by $-11.6$ (95% CI: $-15.60, -7.45$; SE = 2.09; $P < 0.001$) per 100 officers in the 24 mo following training. A total of 6,577 complaints were filed against trained officers in the 24 mo after training. We estimate that 7,309 complaints would have been filed without training, a 10.0% reduction equivalent to approximately 732 fewer complaints. During the posttraining period, the CPD received 3,49 complaints per 100 officers per month compared to 4.03 that would have been received in the absence of training. Fig. 2 shows that the observed count and counterfactual count of complaints closely match in the pretraining period before diverging after training is introduced, indicating a valid counterfactual basis for estimating the training effect.

A key indicator that procedural justice training reduced misconduct is that it reduced the number of complaints that trained officers received. However, it is important to recognize that complaints reflect civilian assessments regarding the inappropriateness of police behavior. These assessments may or may not align with legally or procedurally inappropriate police behavior. Fortunately, we also have records on whether a complaint was sustained or resulted in a settlement payout (20). In Chicago, complaints are investigated by either the Independent Police Review Authority or the CPD’s Bureau of Internal Affairs, which recommend whether complaints should be sustained, before a final decision is issued following CPD review. Similarly, prior to settling a case and paying damages, there is an independent evaluation of the merit of a complaint. Although there are obstacles to pursuing a settlement and racial disparities in the dispositional outcomes of complaints (21), and the investigation of complaints is often forestalled by the absence of a signed affidavit, sustained or settled complaints reflect police behavior that has been demonstrated to violate legally or procedurally justified conduct.

We estimate that training reduced the frequency of sustained or settled complaints by $-1.67$ (95% CI: $-2.81, -0.40$; SE = 0.61; $P = 0.008$) per 100 officers in the 24 mo following training. Among posttraining officers, 573 complaints were sustained or resulted in a settlement related to misconduct, with settlement payouts totaling $22.9 million. Without training, we estimate there would have been an additional 105 sustained or settled complaints, a reduction of 0.07 per 100 officers per month. This corresponds to a 15.5% reduction from 0.39 to 0.32 sustained or settled complaints per 100 officers per month.

The procedural justice training program was also effective in reducing the frequency with which officers resorted to using force in civil interactions. Table 1 reports that training reduced mandatory use of force reports by $-7.45$ (95% CI: $-12.40, -3.37$; SE = 2.33; $P = 0.002$) per 100 officers in the 24 mo after training. During this 2-y period, officers reported using force in 7,116 incidents ranging in severity from a takedown to a firearm discharge (SI Appendix). We estimate that, in the absence of training, there would have been 486 additional uses of force totaling 7,602. This 6.4% reduction in force corresponds to a rate of 3.77 per 100 officers per month in the posttraining period, down 0.40 from the 4.17 expected under the counterfactual of no training. Fig. 2 shows a similar average observed and counterfactual use of force in the pretraining period, again diverging only after training was introduced. In SI Appendix, we report that procedural justice training reduced use of force actions with weapons, but did not cause a decline in either force mitigation efforts or control tactics, indicating that procedural justice training may have deterred officers from the escalation of force.

To test whether the estimated effect of training may be affected by time-varying confounding, we carried out placebo tests in which we artificially introduced training 3 mo before each cluster was, in fact, trained (22). We then estimated the placebo training effect in the 3 mo prior to training. As the clusters had not yet undergone training, there should be no evidence for a training effect in this 3-mo placebo period. If there is evidence for a placebo effect, the estimated counterfactual may not be an adequate comparison for the observed outcomes after training. Fig. 3 shows that the complaints, sustained or settled complaints, and use of force models pass the placebo test, indicating that the estimated counterfactual provides a valid basis for identifying the training effect. The $P$ values for the placebo ATT in the 3 mo before training was, in fact, introduced are $P = 0.254$, $P = 0.818$, and $P = 0.115$ for complaints, sustained or settled complaints, and force, respectively. We also find no evidence for a placebo effect in the period 5 mo before the true onset of training.

Lastly, Fig. 4 shows that the effect of procedural justice training was durable, reducing complaints and use of force

Table 1. Average effect of training on complaints received, sustained or settled complaints, and mandatory reports of use of force

<table>
<thead>
<tr>
<th></th>
<th>Complaints</th>
<th>Sustained</th>
<th>Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumulative ATT</td>
<td>$-11.60$</td>
<td>$-1.67$</td>
<td>$-7.45$</td>
</tr>
<tr>
<td>SE</td>
<td>2.09</td>
<td>0.61</td>
<td>2.33</td>
</tr>
<tr>
<td>95% CI</td>
<td>$-15.60, -7.45$</td>
<td>$-2.81, -0.40$</td>
<td>$-12.40, -3.37$</td>
</tr>
<tr>
<td>$P$</td>
<td>&lt;0.001</td>
<td>0.008</td>
<td>0.002</td>
</tr>
<tr>
<td>Cluster fixed effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Month fixed effects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Officers</td>
<td>8,618</td>
<td>8,618</td>
<td>8,618</td>
</tr>
<tr>
<td>Months</td>
<td>63</td>
<td>58</td>
<td>63</td>
</tr>
<tr>
<td>Clusters</td>
<td>328</td>
<td>328</td>
<td>328</td>
</tr>
<tr>
<td>Treated clusters</td>
<td>306</td>
<td>295</td>
<td>306</td>
</tr>
<tr>
<td>Always-control clusters</td>
<td>22</td>
<td>33</td>
<td>22</td>
</tr>
<tr>
<td>Observations</td>
<td>20,664</td>
<td>19,204</td>
<td>20,664</td>
</tr>
</tbody>
</table>

The cumulative ATT represents the average reduction after 24 mo per 100 trained officers. The 95% CIs are computed using 2,000 block bootstrap runs at the cluster level.
Fig. 2. (Top) Observed and counterfactual estimates of complaints, sustained or settled complaints, and use of force per 100 officers per month. Months are recalibrated to be relative to the onset of training. (Bottom) The ATT for each month is the estimated counterfactual frequency subtracted from the observed frequency in that month. Monthly ATT estimates are colored according to their value relative to zero. The 95% CIs are computed using 2,000 block bootstrap runs at the cluster level.

Throughout the 24 mo following training. The cumulative ATT is monotonically decreasing for all three outcomes in the model including all trained and control clusters. The durability of the effect on complaints and use of force indicates that procedural justice can elicit a behavioral shift beyond the days and weeks following training.

Fig. 3. Placebo tests for the effect of training on complaints, sustained or settled complaints, and use of force. In the placebo tests, the training is artificially introduced before the observed onset of training. The placebo ATT is estimated for the period between the artificial onset and the true onset, denoted by the blue region. The P value for the placebo ATT is shown. (Top) Training is artificially introduced 3 mo before the true onset, and the placebo ATT is calculated for the period −3 mo to 0 mo. (Bottom) Training is artificially introduced 5 mo before the true onset, and the ATT is calculated for the period −5 mo to 0 mo. For all outcomes, we find no evidence for an effect of training in the placebo period, and the models pass the placebo test. The 95% CIs and P values are computed using 2,000 block bootstraps at the cluster level. The uncertainty for the placebo ATT is larger than the ATT in the full data because the placebo tests are informed by fewer observations in the pretraining condition.
However, Fig. 2 shows that the ATT on complaints and use of force is heterogenous over time, with the average effect per 100 officers increasing in magnitude as the time since training grows longer. The reduction in complaints and force is most pronounced after 12 mo to 24 mo has passed since training. Importantly, the number of months that we observe clusters after training varies according to the adoption time of each cluster. Whereas early adopters are observed for at least 24 mo, late adopters are observed for between 1 mo and 23 mo, depending on when they were trained. Early adopters therefore make up a larger share of trained clusters in the 12 mo to 24 mo after training. The larger effect in this period suggests that training had a more pronounced effect on early adopters.

To examine heterogeneity in the training effect by adoption time, we estimated separate IFE models for early adoption clusters and late adoption clusters, retaining the always-control clusters in both models. Fig. 1 shows the early and late adoption periods. Fig. 4 shows that the effect was more pronounced on early adoption clusters. After 18 mo, early adopters had 9.54 fewer complaints, 1.28 fewer sustained and settled complaints, and 8.72 fewer uses of force per 100 officers compared to 6.04, 0.74, and 4.51 for late adopters, respectively. While the effect of training is durable, it caused a larger shift in behavior among officers trained early in the rollout. The complaints and use of force results are consistent across IFE and matrix completion (23) estimators; see SI Appendix.

Discussion

The force-based command and control model which is the dominant policing model in American policing is concerned with obtaining compliance through the threat or use of dominance and, if needed, coercion (24). This model has long been associated with public perceptions of mistreatment ranging from demeaning treatment to the excessive use of force. Recent discussions about policing emphasize the virtues of a new model of policing based upon procedural justice (2). Research points to desirable benefits from this type of policing, including heightened popular legitimacy, increased acceptance of police authority, and greater public cooperation with the police (15–18).

While empirical research findings suggest that the procedural justice model is preferable to the currently dominant command and control approach in terms of building public trust and promoting compliance and cooperation, its widespread adoption requires the identification of effective implementation models.

This study demonstrates the viability of one such model based upon officer training. The results indicate that training changes actual police behavior in desired ways while officers are in the field. Our findings are bolstered by the three separate outcome measures, which include complaints against police officers, complaints that were sustained or resulted in a settlement payout, and mandatory use of force reports filed by officers. Training reduced complaints against police, reduced demonstrated violations of legal or procedural rules, and reduced the frequency with which officers resorted to the use of force during interactions with civilians.

Importantly, the impact of training on complaints and use of force is durable, lasting at least 2 y. The staggered adoption of training enabled us to estimate the heterogeneity of the training effect by adoption time. The effect of training on late adopters was attenuated, suggesting there may be spillover effects in the rollout of training. That is, early adopters may have encouraged the take-up of procedural justice principles among late adopters prior to the latter group undertaking training, resulting in that training having a smaller effect at the time of delivery.

We anticipate that an evaluation of officer compliance with procedural justice methods in police–civilian interactions will be important for understanding the types of policing behaviors that were adopted and avoided to reduce complaints and the use of force. Further studies may also analyze the possibility of downstream effects associated with officer retraining, such as heightened top-down scrutiny, which may be important mechanisms for reducing misconduct and the use of force.

These results support efforts to change the culture of policing by demonstrating that realistic levels of training can produce substantial changes in police behavior on the streets.
Materials and Methods

Outcome Data. Outcome data consist of 19,994 complaint records and 21,303 use of force reports, each of which are routinely collected by the CPD. A total of 1,699 of the complaints were sustained or resulted in a settlement payout. The complaints and use of force data cover the period from January 2011 to March 2016. The sustained and settled data cover the period from January 2011 to October 2015. Each complaint record identifies the officer named in the complaint, the date of the incident, and the type of officer action that led to the complaint. The use of force reports, known as Tactical Response Reports (TRR) within the CPD, identify the officer filing the report, the date of the incident, and the type of force used. For any officer using force, it is mandatory to file a TRR under departmental policy. We report the count per officer and distribution of types of complaint and force used in SI Appendix.

The routine collection of these data means that our measurements of officer behavior are distinct from and blind to the training program. However, it is important to note that our measurements do not necessarily account for the full range of potential officer misconduct or use of force. Previous work suggests that many people who believe they were mistreated by the police do not file a complaint (25), and the process of filing a complaint can be costly and complicated (26). Although it is departmental policy to file a TRR if force is used, there is no guarantee that officers will comply in all cases.

The outcome data were obtained through Freedom of Information Act (FOIA) requests by the Invisible Institute (http://invisible.institute). The outcome data have been released publicly and are available at https://github.com/invisist/chicago-police-data.

Training and Roster Data. Training data were provided by the CPD. The training data contain the last name, first name, middle initial, scrambled employee number, and date of training for each of the 8,618 officers in the study. Each set of training data contains a unique identifier for each outcome. We matched the training data to the outcome data using CPD roster data. The CPD roster data include officer last name, first name, and the unique identifier used in the outcome data. Employee numbers are protected under FOIA and could not be obtained. The training data contained 10,411 unique officers. From these, 10,285 could be matched to exactly one unique identifier. 23 officers that did not have a name match in the roster data; and 103 (0.99%) could not be matched to exactly one officer in the roster data. The nonunique matches are due to name duplication where, for example, there are two or more officers named John Smith in the roster data and we could not determine which of these received training on a particular date. The 23 officers that did not have a name match in the roster data and 103 officers who could not be uniquely matched were excluded from the analysis.

Training continued beyond the study period when the curriculum was revised and retitled “A Tactical Mindset: Police Legitimacy and Procedural Justice.” Due to insufficient follow-up data, we could not evaluate the effects of this second, revised training module in the present study.

Data Exclusions. In addition to exclusion due to incomplete name matching, we excluded 1,667 officers who were appointed to the CPD during the study period. One source of information underlying the counterfactual estimator, detailed below, is the frequency of each outcome in the months before and after the training. We exclude 1,667 officers who were appointed to the CPD during the study period. Standard errors and confidence intervals are computed using 2,000 block bootstraps at the cluster level (19).

To test for time-varying confounding in the pretraining period, we conducted a test of placebo effects using a placebo group introduced in Liu et al. (22). In the placebo tests, training is artificially introduced prematurely for each trained cluster. We run two separate tests with training introduced 3 mo early and then 5 mo early. In the absence of time-varying confounding, which is required for identifying the effect of training, there should be no discernible effect of training in the 3- or 5-mo placebo period before the training was, in fact, introduced. The placebo ATT is calculated using the IFE model following the procedure above. We interpret a large P value as evidence against an effect of training in the placebo period.

Data Availability. Data and code for reproducing the analyses presented in this paper are available on GitHub, https://github.com/jeanwood/proceduraljustice.

ACKNOWLEDGMENTS. We thank Keniel Yao and Claire Ewing-Nelson for research assistance.


8. C. Lum et al., An Evidence-Assessment of the Recommendations of the President’s Task Force on 21st Century Policing (Center for Evidence-Based Crime Policy, Fairfax, VA, 2016).


