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

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Edited by Susan T. Fiske, Princeton University, Princeton, NJ, and approved March 20, 2020 (received for review December 6, 2019)

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.

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.

This article is a PNAS Direct Submission.

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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/procedural-justice.

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This article contains supporting information online at https://www.pnas.org/lookup/suppl/doi:10.1073/pnas.1920671117/-/DCSupplemental.

The rollout of the training program created an opportunity to test the impact of training upon police behavior as reflected in complaints about the police and mandatory use of force reports. The procedural justice training syllabus 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

![Graph showing staggered adoption of procedural justice training in the CPD](image-url)

**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 posttraining 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 3,494 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 civilian 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>Complaints</th>
<th>Sustained</th>
<th>Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumulative ATT</td>
<td>−11.60</td>
<td>−1.67</td>
</tr>
<tr>
<td>SE</td>
<td>2.09</td>
<td>0.61</td>
</tr>
<tr>
<td>95% CI</td>
<td>−15.60, −7.45</td>
<td>−2.81, −0.40</td>
</tr>
<tr>
<td>$P$</td>
<td>&lt; 0.001</td>
<td>0.008</td>
</tr>
<tr>
<td>Cluster fixed effects</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Month fixed effects</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Officers</td>
<td>8,618</td>
<td>8,618</td>
</tr>
<tr>
<td>Months</td>
<td>63</td>
<td>58</td>
</tr>
<tr>
<td>Clusters</td>
<td>328</td>
<td>328</td>
</tr>
<tr>
<td>Treated clusters</td>
<td>306</td>
<td>295</td>
</tr>
<tr>
<td>Always-control clusters</td>
<td>22</td>
<td>33</td>
</tr>
<tr>
<td>Observations</td>
<td>20,664</td>
<td>19,204</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 heterogeneous 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. The complaints and use of force data cover the period from January 2011 to March 2016. The sustained and settled data cover the period 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 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/invisible/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 officer data contain a unique identifier for each officer. 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. We 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 the onset of training. Excluding new officers ensures that there exists at least 12 mo of pretraining control observations against which to benchmark the training effect; 98% of the excluded officers underwent training within 6 mo of appointment, which is the typical period an officer spends in the CPD Recruit Academy. As such, the appointment exclusion means that our estimates do not provide evidence on the effects of training new officers, but rather the effects of retraining serving officers. Our evaluation includes the remaining 8,618 officers who were retrained.

Statistical Analysis. We clustered officers by the date on which they were trained. We then aggregated all complaints, sustained or settled complaints, and use of force reports by cluster in each month from January 2011 to March 2016, forming time series cross-sectional data. Our dependent variable is the frequency of complaints, sustained or settled complaints, or use of force reports per cluster-month. Each outcome is represented by a distinct outcome matrix \( Y_t \) containing these frequencies, with \( N = 328 \) rows corresponding to clusters of officers and \( T = 63 \) columns corresponding to months.

Each cluster has a training indicator in each month, which is \( D = 1 \) if the cluster has been trained or \( D = 0 \) if the cluster has not yet undergone training. Once a cluster has transitioned from \( D = 0 \) to \( D = 1 \) upon training, the cluster remains in the trained condition thereafter. The training condition for each cluster is represented by a matrix \( D_t \), which has the same dimension as the outcome matrix \( Y_t \). The study period ends before the last 22 clusters are trained which therefore remain in the \( D = 0 \) condition throughout. These always-control clusters ensure there are observations in the untrained condition in the latter months of the evaluation period.

To test the training effect, for each outcome, we estimated a counterfactual matrix \( Y_t(0) \) in which the elements are estimated counts under the scenario in which training had not taken place. To estimate the counterfactual matrix for each outcome, we used an IFE model (19, 27, 28). The IFE model is given by

\[
Y_{it} = \alpha_i + \lambda'_i t + \epsilon_{it},
\]

where \( Y_{it} \) are the observed outcomes, such as the count of complaints received, for each cluster \( i \) in each month \( t \). \( \alpha_i \) is an intercept, \( \lambda_i \) is the vector of factors representing the rollout of training, \( \lambda_i \) is the vector of factor loadings which represent unobserved characteristics of the officer clusters and which allow for heterogeneous training effects across clusters, and \( \epsilon_{it} \) are cluster-specific errors (29). Through the interaction of the factors and factor loadings, the IFE estimator leverages observed patterns in counts within cluster over time and the patterns between clusters within time periods. Through \( \lambda_i \), the estimator incorporates information on the known structure of the training rollout. The number of factors is selected using a cross-validation procedure. By conditioning on the factors and factor loadings, the IFE estimator relaxes the assumption of parallel trends required by alternative models such as difference-in-differences (19).

The IFE estimator produces a counterfactual matrix \( Y_t(0) \) which we subtract from the observed matrix \( Y_t(1) \). The ATT is the mean difference between \( Y_t(0) \) and \( Y_t(1) \) in posttreatment months. Descriptively, this is the mean count of complaints per cluster-month that would have been received in the counterfactual condition in which training did not occur subtracted from the mean that we, in fact, observed in the posttraining period. We rescale the ATT to provide the effect per 100 officers per month rather than per cluster-month. For the cumulative ATT, we calculate the sum of the ATT over the 24 mo following the onset of training. A total of 575 officers ended employment at CPD between undertaking training and the end of the study period. We accounted for this source of attrition by updating the number of officers per cluster in each month. In SI Appendix, we show that the estimated effects are comparable if these 575 officers are excluded from the study. 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 trends in complaints and use of force, we conducted a set of placebo tests following the procedure 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/jeorge-wood/procedural-justice.

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

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