

Innovative Research Approaches in Elder Abuse: Evaluation

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Overview

- Background
- Review of Prevention and Intervention Research
- Evaluation Design Options
 - RCTs
 - Non-randomized options
- NIJ 2016 Elder Abuse Prevention Demonstration
 - Solicitation overview
 - Award announcement

“Where We’ve Failed Miserably: Evidence based treatment and prevention strategies”

- A very wise man Karl Pillemer (September 15, 2016)



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Background

- Brief history of NIJ's funding in elder mistreatment evaluation research through FY 2015.
 - 30+ funded projects between FY 2005 and FY 2015
 - 3 funded projects evaluating 2 Elder Abuse Forensic Centers
 - 0 funded preventive intervention evaluations



Comparison to Other Fields Using CrimeSolutions.gov Program Registry

- 122 programs listed under Violent Crime (25 effective, 87 promising).
- 87 programs listed under Victims and Victimization (22 effective, 53 promising).
- 23 programs listed under Child Abuse and Maltreatment (6 effective, 15 promising).
- Nothing listed under Elder Mistreatment

Comparison to Other Fields Using CrimeSolutions.gov Practice Profiles

- Domestic violence interventions for male perpetrators using the Duluth Model – 22 studies
- Psychotherapies for victims of sexual assault – 6 studies
- Cognitive Behavior Therapy for domestic violence offenders – 22 + studies
- Second responder programs – 10 studies
- Sexual Assault Nurse Examiner forensic exams – 6 studies
- Advocacy interventions for victims of domestic violence – 2 studies
- No practice profile for elder mistreatment or any elder mistreatment practice

2016 Systematic Review of EA Interventions

Ayalon, Lev, Green, & Nevo (2016)

- 24 studies met the inclusion criteria
- Only 5 studies used any type of elder abuse as the outcome measure and only 1 of those included physical abuse
- International scope
- Studies were grouped into 3 categories
 - Interventions for professionals to detect or stop EM (2)
 - Interventions targeting older adults who experience EM (3)
 - Interventions targeting caregivers who mistreat older adults (19)
- 13 RCTs, 7 Quasi-experimental or comparison group designs, 4 pre-post designs
- 9 physical restraint studies that measured restraint as an outcome (pooled effect: $-.24$)

2015 Integrated Review of EA Interventions

O'Donnell, Phelan, & Fealy (2015)

- 37 experimental studies for 34 separate interventions were reviewed and grouped by level of human ecology
- Quality of the research based on a 22 point scale
- Of the 34 interventions, 11 received at least a score of 12.
- Methods categorized as randomized or non-randomized
- No indication in the report of specific outcomes for each study



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2016 Cochrane Review

Interventions for Preventing Abuse in the Elderly

Baker, Francis, Hairi, Othman, & Yuen Choo (2016)

- Just published in mid-August.
- Includes RCTs, Quasi-experimental studies, pre-post studies with at least a 12 week follow-up period designed to prevent or reduce EA.
- Only 7 studies met the inclusion criteria.
- Few measured occurrence or reoccurrence of abuse.
- None reported unintended negative outcomes.
- The quality of the evidence was low.
- Authors concluded that there is inadequate evidence to assess the effects of elder abuse interventions.

Rigorous Alternatives to Randomized Control Trials (RCTs)

- RCTs are preferable when they are ethically feasible
- Conditions favorable for non-randomized designs:
 - Intervention feasibility or acceptability is high
 - Little potential for harm
 - Effect sizes are large
 - Confounders are known and measured
 - There is evidence for a causal link between the intervention and the desired outcome(s)

Rigorous Alternatives to RCTs: Propensity Score Matching

- PSM is a quasi-experimental design that estimates the difference in outcomes between program participants and non-participants that can be attributed to the program.
- PSM reduces selection bias by creating a comparison group that is similar to the treatment group using regression to constructing a propensity score from observed baseline variables.
- The propensity scores estimate the probability of participation in the program and are constructed from characteristics that may affect program participation.

Propensity Score Matching Example: LA Elder Abuse Forensic Center Evaluation

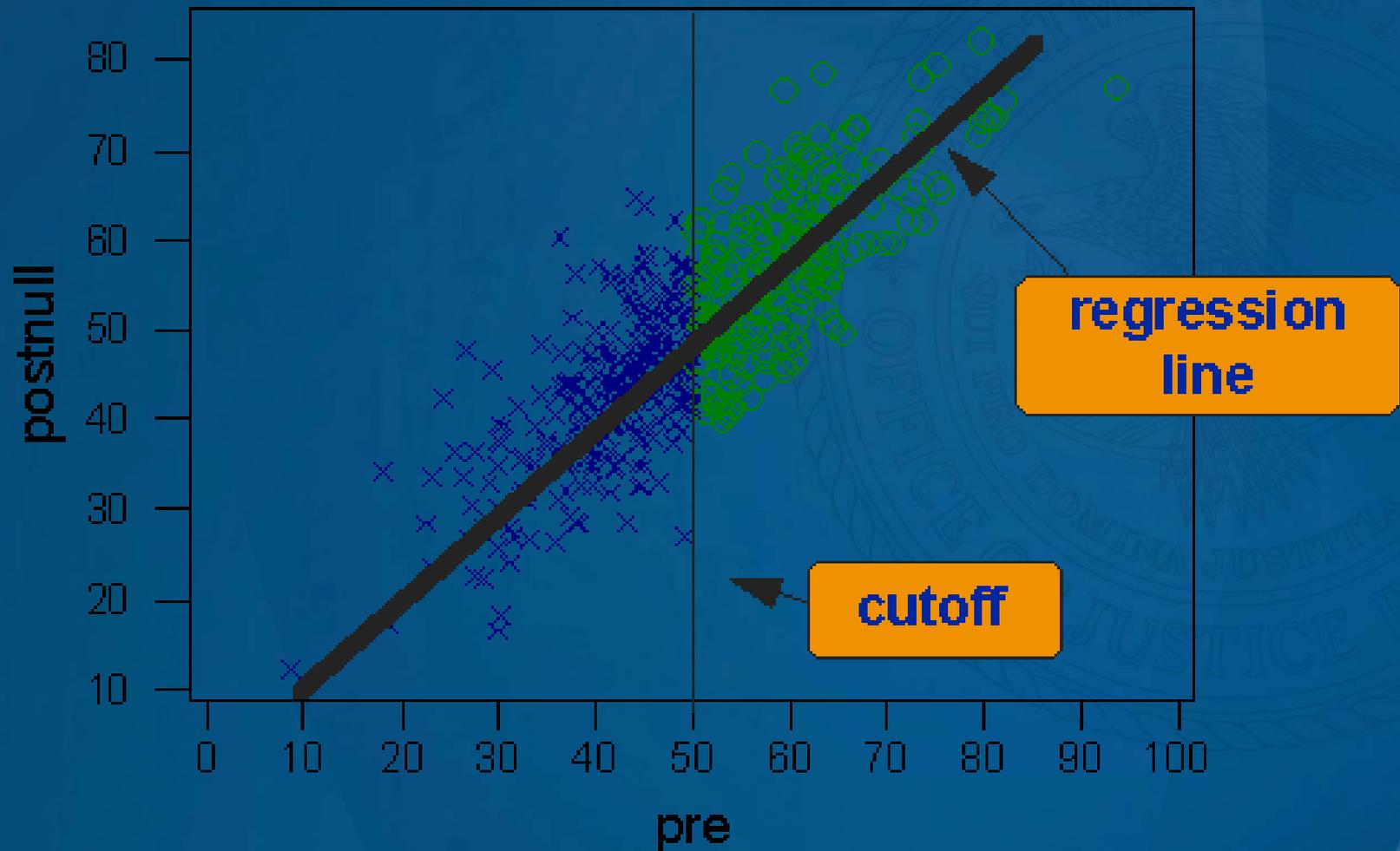
Navarro, A. E., Gassoumis, Z. D., & Wilber, K. H. (2013)

- Original design was RCT, but was modified due to organizational changes outside of the researchers' control.
- Revised design used PSM to compare cases that went to the LA EAFC (n=287) to similar APS cases (selected from 33,650 cases).
- Using available administrative data, cases were matched on age, race/ethnicity, APS office, number of abuse types reported and type of abuse.
- Findings: LA EAFC cases were significantly more likely to be submitted to the District Attorney's office.

Rigorous Alternatives to RCTs: Regression Discontinuity

- Essentially this is a pre-test, post-test design where the participants are assigned to program or comparison groups based on a pre-program cut off score (e.g., risk for abuse score).
- Intervention is delivered only to those most as need as determined by the cut off score.
- Has been used more in education than in social sciences. It does not allow for judgment to override the cut off classification.

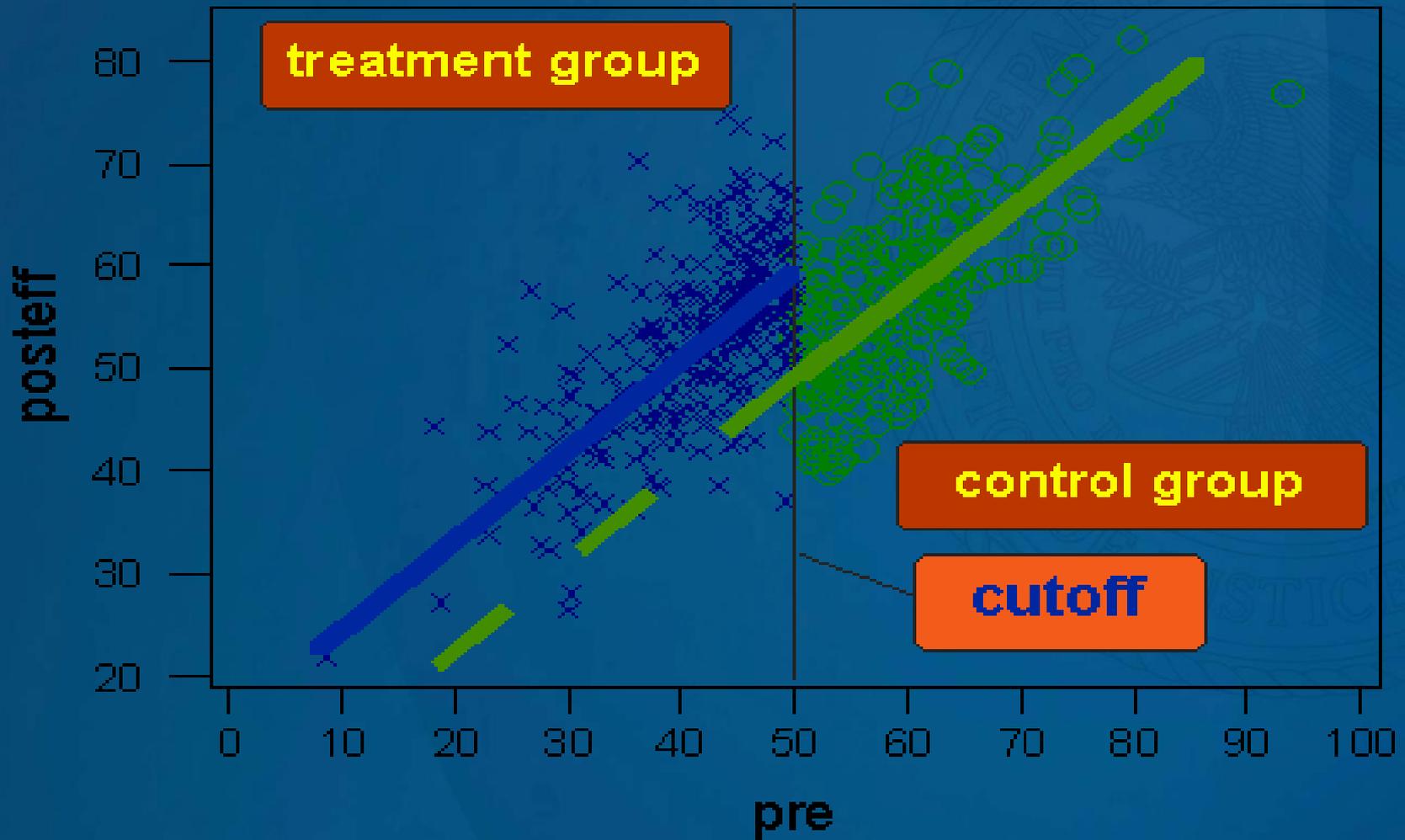
For more information on regression discontinuity see
<http://www.socialresearchmethods.net/kb/quasird.php>



Trochim, William M. The Research Methods Knowledge Base, 2nd Edition. Internet WWW page, at URL: <http://www.socialresearchmethods.net/kb/>



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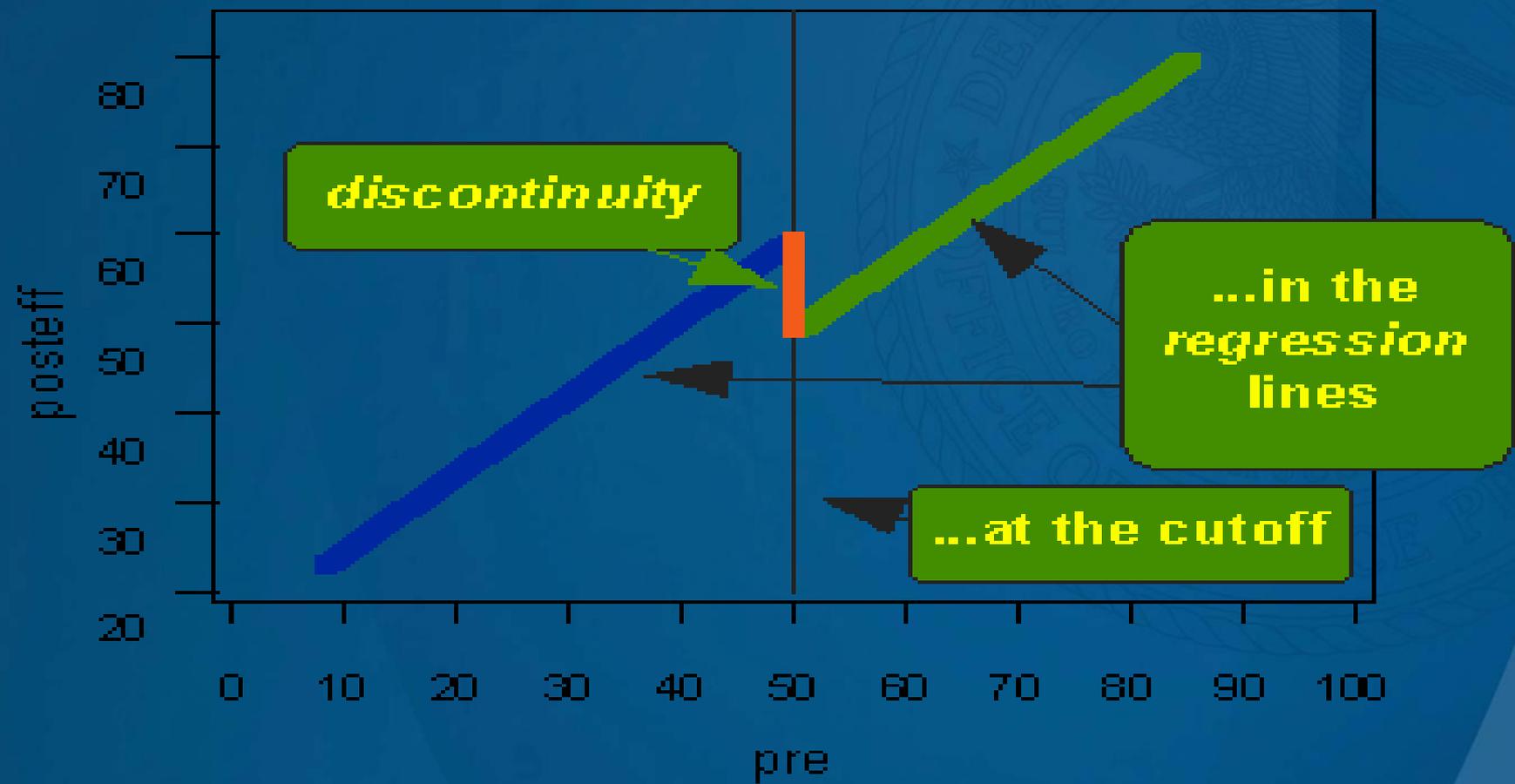


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If there is a treatment effect, there will be a...



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Evaluation Research in Elder Abuse: What is needed?

- Clearly identified theory and logic model driven by strong evidence base about risk and protective factors.
- Agreed upon understanding of desired outcomes for intervention programming across a wide range of domains (housing, physical health, psychological wellbeing, financial wellbeing, criminal justice
- Creative use of research methods and adoption of models from related fields.
- Strong advocacy to push for programming and evaluation.

Goal of NIJ FY 2016 Elder Abuse Prevention Demonstration Project Solicitation

- Fund a rigorous, multi-year demonstration project to prevent abuse, neglect, and financial exploitation of elderly individuals who reside in the community and are at risk for elder abuse.
- Make up to two awards in the form of cooperative agreements, each for an 18-month planning phase.

Expectation for 3-Phased Funding

- Phase 1: This year's solicitation is for an 18-month planning phase. NIJ has just made 2 awards for Phase 1.
- Phase 2: In the future, if phase 1 is successful, NIJ expects to award an 18-month supplement for a pilot phase.
- Phase 3: If the pilot in phase 2 shows promise for preventing elder abuse, NIJ expects to award an implementation study of 3 or more years. This phase will be awarded as a supplement.

Expectations for Proposed Interventions

- Propose an intervention strongly grounded in theory and specify the theory.
- Build on evidence-based violence prevention or health promotion interventions in related fields.
- Identify a rationale and strategy for selecting participants
- Propose a project that can be replicated, scaled up, and independently evaluated.
- Interventions may focus on single or multiple forms of elder mistreatment
- Consideration of a home visiting component is encouraged
- Partnering with an integrated health care system is encouraged

Expectations for Proposed Evaluation

- Use a scientifically rigorous design, such as an RCT, propensity score matching, or regression discontinuity.
- Identify meaningful and measureable short- and long-term outcomes that are theoretically linked to the intervention.
- Include reliable, valid, and generalizable measures of all independent and dependent variables, mediators, and moderators.
- Use of administrative datasets is encouraged.

Expectations for Proposed Research Team

- Multidisciplinary with the following expertise:
 - Experience in the administration and conduct of multidisciplinary and multicomponent research
 - Intervention development and implementation
 - Elder abuse
 - Violence prevention, child abuse prevention, or prevention of violence against women
 - Evaluation research
 - Longitudinal research design and data analysis
 - Instrument development, design, and testing
 - Use of administrative data
 - Cost analysis research



Announcement of NIJ Awardees

- The awards will be announced next week.
- Awardees will be notified by September 22.



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