Electronic Control Weapons: Reading the Evidence

Submitted to the City of Berkeley

Stanford | S Law School | J

Stanford Criminal Justice Center

Report: Methods & Scope

Report examined empirical research on:

Health Effects

Public Safety Outcomes Complements

...and also addressed:

Background of Technology

Use of Force Policy

Legal Framework

See full report for detailed treatment of these subjects.

Report did <u>not</u> address:

Fiscal impact

- -Equipment
- -Litigation
- -Workers Comp

Yes / No
Prescription
for
Berkeley

Roadmap for today's presentation:

Health Effects Public Safety Outcomes

Complementary Tools

1. Health Effects

Why the uncertainty about safety?

Sources of Information

Death counts vary because cause of death isn't always clear

Media reports highprofile disasters, not routine events

Medical Research

Limitations of **Current Research**

Emerging Questions

"Broad conclusion" and caveats:

Current evidence suggests ECWs usually safe, if subject is . . .

Not under influence

Generally healthy

Not pregnant

No mental illness

... and the shock is

Applied to approved area of body

5-15 seconds in duration

"Broad conclusion" and caveats:

But in the real world, subjects . . .

Are often under the influence

Have latent / undiagnosed health problems

Often suffer from mental illness

Could be pregnant

... and the shocks can easily

be applied to unapproved areas

exceed 5-15 seconds

Nevertheless, NIJ concludes:

Police forces need not discontinue use, if they have appropriate training and policies.

2. Public Safety Outcomes

Relationship between ECWs and:

Lethal force

Officer injury

Suspect injury

Research limitations

Poorly designed experiments

Duplicative use of limited data

Funding bias

What do the best studies show?

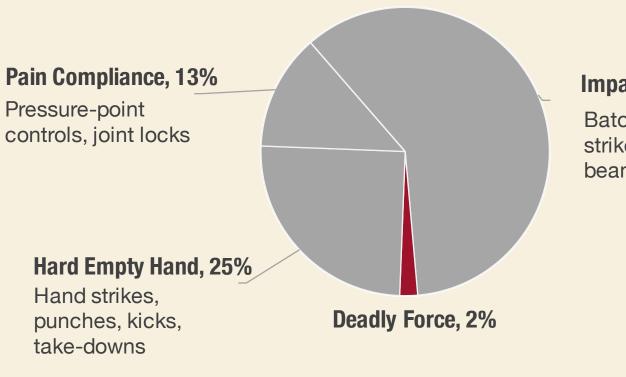
Q1: Do ECWs replace use of lethal force?

A: Probably Not.

- Few studies, all of them weak.
- If so, would require most permissive ECW force policies.

Terrill & Paoline (2012) surveyed 662 police agencies on use of force policy.

ECWs were rarely placed with deadly force.



Impact Weapons, 60%

Baton or flashlight strikes, pepper-balls, beanbag guns

Soft Physical, 0% Verbal, 0%

Q2: Do ECWs reduce officer injuries?

A: Probably.

3 major studies suggest "yes" — and their varied methodologies bolsters conclusion.

2 major studies suggest "no" — but they have data & design issues.

Q3: Do ECWs reduce suspect injuries?

A: Depends who you ask, and how.

Q3: Do ECWs reduce suspect injuries?

Underlying question: Count barbs as "injuries"?

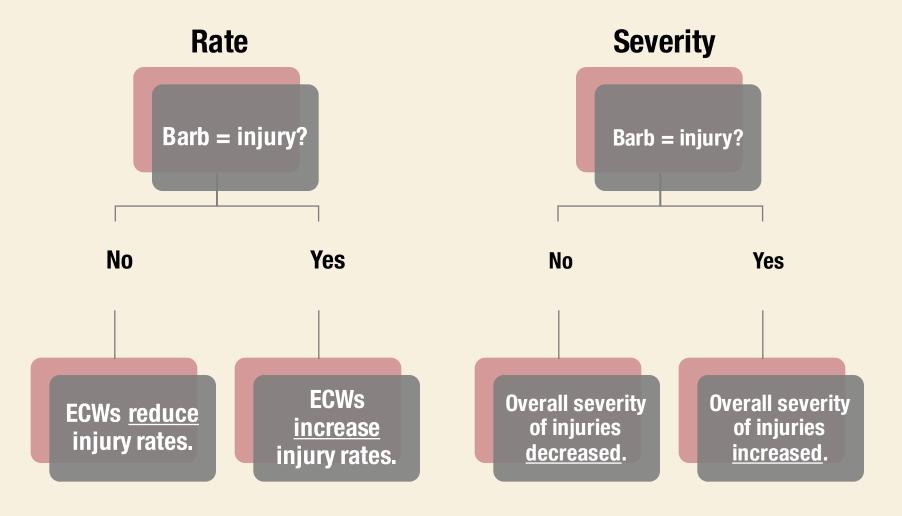
"No, barbs are not an injury."

Kaminsky, et al.MacDonald, et al.PERF

"Yes, barbs <u>are</u> an injury."

- Terrill & Paoline

Underlying question: Count barbs as "injuries"?



Methods & Scope Health Outcomes Other Tool

What's the "right" answer?

"No, barbs are not an injury."

Kaminsky, et al.MacDonald, et al.PERF

"Yes, barbs <u>are</u> an injury."

- Terrill & Paoline

U.S. Court of Appeals for the Ninth Circuit has characterized barb punctures as "injuries."

See Bryan v. MacPherson 630 F.3d 805, 813–14 (9th Cir. 2010)

3. Complementary Tools

Do these methods reduce injuries?

A: Possibly, but more study is needed.

- De-escalation Techniques:
 - Refers to various programs, so it's hard to measure adoption and outcomes — but LEAs recognize the need.
- Crisis Intervention Teams (CIT):
 - Promising, but research still developing.
 - Non-uniform adoption defies measurement.
 - Studies measure changes in officers' attitudes, not outcome data.

Conclusion