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## Perceptions of questionable research practices in social work and other disciplines

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# Perceptions of Questionable Research Practices in Social Work and Other Disciplines

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# Outline

- ▶ Background on research misconduct
- ▶ Study purpose and method
- ▶ Overview of descriptive results
- ▶ Regression results
- ▶ Limitations
- ▶ Implications for reducing misconduct

# Misconduct in Research

- ▶ FFP (Falsification, Fabrication, Plagiarism) from 2005 federal regs on misconduct (42 CFR 93, PHS)
- ▶ QRP (Questionable Research Practices) has evolved since then to describe the rest, generally less serious actions
- ▶ Fanelli (2009)\* meta-analysis found 2% of scientists have admitted to FFP; 34% for QRP
- ▶ IRB/Human Subjects - only one component of Responsible Conduct of Research (RCR)

\* Reference List on final slides

# Research on Research Misconduct

- Misconduct *higher* with:
  - Certain personality characteristics (e.g, arrogance, exploitativeness, cynicism) (1)
  - Interpersonal conflict (1)
  - Early career stage (2,7)
  - Perceptions of organizational injustice (2),
  - Funding expectations and perceived competition (5, 6)
  - Country/culture of author (e.g., publications rewarded with cash, less peer criticism, less regulatory structure) (7)
- Misconduct *lower* with occupational engagement (1)
- Mixed results on gender (2,7; women lower sometimes)

1 Mumford, M. D., Antes, A. L., Beeler, C., & Caughron, J. J. (2009); Mumford, M. D., Connelly, M. S., Murphy, S. T., Devenport, L. D., Antes, A. L., Brown, R. P., et al. (2009).

2 Martinson, B. C., Anderson, M. S., Crain, A. L., & DeVries, R. (2006); Martinson, B.C., Crain, A.L., Anderson, M.S., & DeVries, R. (2010).

3 Anderson, M. S., Horn, A. S., Risbey, K. R., Ronning, E. A., De Vries, R., & Martinson, B. C. (2007).

4 Anderson, M. S., Louis, K. S., & Earle, J. (1994).

5 Martinson, B. C., Crain, A. L., Anderson, M. S., & DeVries, R. (2009).

6 Anderson, M. S., Ronning, E. A., DeVries, R., & Martinson, B. C. (2007).

7 Fanelli D., Costas R., & Larivière V. (2015).

SEE REFERENCES for full citations.

# Research on Research Misconduct - SW

- ▶ SW literature on non-human subjects related research misconduct is limited
  - ▶ Gibelman and Gelman calling for attention to research integrity (1)
  - ▶ Survey of SW researcher attitudes about authorship credit (2)
  - ▶ Articles on Plagiarism by students (e.g., 3)
- ▶ National Statement on Research Integrity in Social Work (4) -developed from 2006 symposium at the annual meeting; 8 areas, which parallel guidelines from Office of Research Integrity
  - ▶ Human Subjects
  - ▶ Mentoring
  - ▶ Conflicts of Interest
  - ▶ Collaborative Science
  - ▶ Data Acquisition, Management, Analysis
  - ▶ Authorship
  - ▶ Peer Review
  - ▶ Research Misconduct

1 Gibelman (2002); Gibelman & Gelman (2001; 2005).

2 Apgar & Congress (2005)

3 Collins & Amodeo (2005)

4 CSWE (2007)

# Research in Social Work

- ▶ Research among Social Workers is increasing
  - ▶ Tenure expectations
  - ▶ Commitment to enhance empirical knowledge base (practice-based research and evidence-based practice)
  - ▶ Shift from process of education for practice to ensuring achievement of specific outcomes (CSWE EPAS)
- ▶ Social Workers are less familiar with and are less participatory in the IRB process
- ▶ Community-based participatory research does not necessarily fit the regulatory definition of research
  - ▶ Generalizability not as emphasized
  - ▶ Projects emphasize social action, which blurs the lines between research, community organizing and advocacy

<sup>1</sup> Valutis, S. & Rubin, D. (2010).

<sup>2</sup> Shore, N. (2007).



# Ethics in Social Work

- ▶ Parallel between SW practice ethics and research ethics (1, 2, 4)
- ▶ NASW Code of Ethics (3)
  - ▶ Guides practice, as well as research
  - ▶ Dignity and Worth of Person, Service, and Social Justice
  - ▶ Consistent with the Belmont Report's core principles

1 Butler (2003)

2 Antle & Regehr (2003).

3 National Association of Social Workers. (2015).

4 Drewry, S. (2004).

# The NASW Code of Ethics

| Belmont Report Principles and Guidelines | Value (NASW Code of Ethics)     | Ethical Principle (NASW Code of Ethics)  |   |
|--|---------------------------------|--|---|
| Beneficence                              | Service                         | Social workers' primary goal is to help people in need and to address social problems. | Social workers elevate service to others above self-interest.   |
| Justice                                  | Social Justice                  | Social workers challenge social injustice.   | Social workers strive to ensure access to needed information, services, and resources; equality of opportunity; and meaningful participation in decision making for all people. |
| Respect for Persons                      | Dignity and Worth of the Person | Social workers respect the inherent dignity and worth of the person.                   | Social workers treat each person in a caring and respectful fashion, mindful of individual differences and cultural and ethnic diversity.                                       |

# Current Study

## PURPOSE:

- ▶ Examine the relative influence of *moral considerations* (Rest, 1984 components of moral decision-making; 1) and *cost/benefit analysis* for engaging in varying types of misbehaviors (rational choice theory; 2, 3)
- ▶ Across fields, and across types of institutions

## DESIGN:

- ▶ Cross-sectional mixed methods (mailed, online) survey
  - ▶ 107 institutions (R1s/research and Masters/comprehensives)
  - ▶ 4,556 faculty - Social Work, Psychology, Sociology/Crim, Biology
  - ▶ Response rates - overall 39%
  - ▶ n=1,735 (53% from R1s)

1 Rest (1984)

2 Lahno (1997)

3 Paternoster & Simpson (1996) and Tibbetts (1997)

See *References* for full citations.

# Instrument

- ▶ Responded to 6 research scenarios indicating:
  - ▶ How likely it is that they would have acted the same in the situation
  - ▶ How harmful the action was
  - ▶ How morally wrong they and their colleagues would say it is
  - ▶ Probability of being caught by colleagues, administration, or funders/publishers
  - ▶ Probability of negative sanctions, including how likely they would feel guilt/shame
- ▶ Two versions for scenarios: Biology and Social Sciences
- ▶ Other variables:
  - ▶ Organizational justice - dept/univ. procedural & distributive
  - ▶ Gender, Year of PhD, # of publications, IRB/IACUC experience
  - ▶ % of salary covered by grants and % of salary expected to be covered by grants
  - ▶ % of effort spent conducting research

# Scenarios

- ▶ Adapted from Mumford, et.al. (2006) Ethical Decision-Making Measures (EDMs), for Biological Sciences and for Social Sciences
- ▶ Each scenario has a set-up paragraph - nature of research, junior or senior professor, any collaborators. Junior professor has tenure looming.
- ▶ Each scenario followed by 3 vignettes each for a total of 6 scenarios for which respondents answered questions

# Scenarios - see handout

1. IRB noncompliance - add consents for younger children without IRB approval
2. Deleted data - suspicious data received from partner lab and quietly deleted
3. Reneges on authorship - tenure review looming, professor reneges on promise for students to be first authors on their work
4. IRB noncompliance/poor personnel management - RA gives identifiable datasets to another research group, PI does not inform IRB and simply reassigns student to other work
5. Misconduct suspicion/false reporting - accepts data he believes are false from senior collaborator, without challenge, tries to downplay bad data in article
6. Conflict of interest in peer review - serves as peer reviewer for article that may jeopardize his own chances for publication, by objectively criticizing its many problems

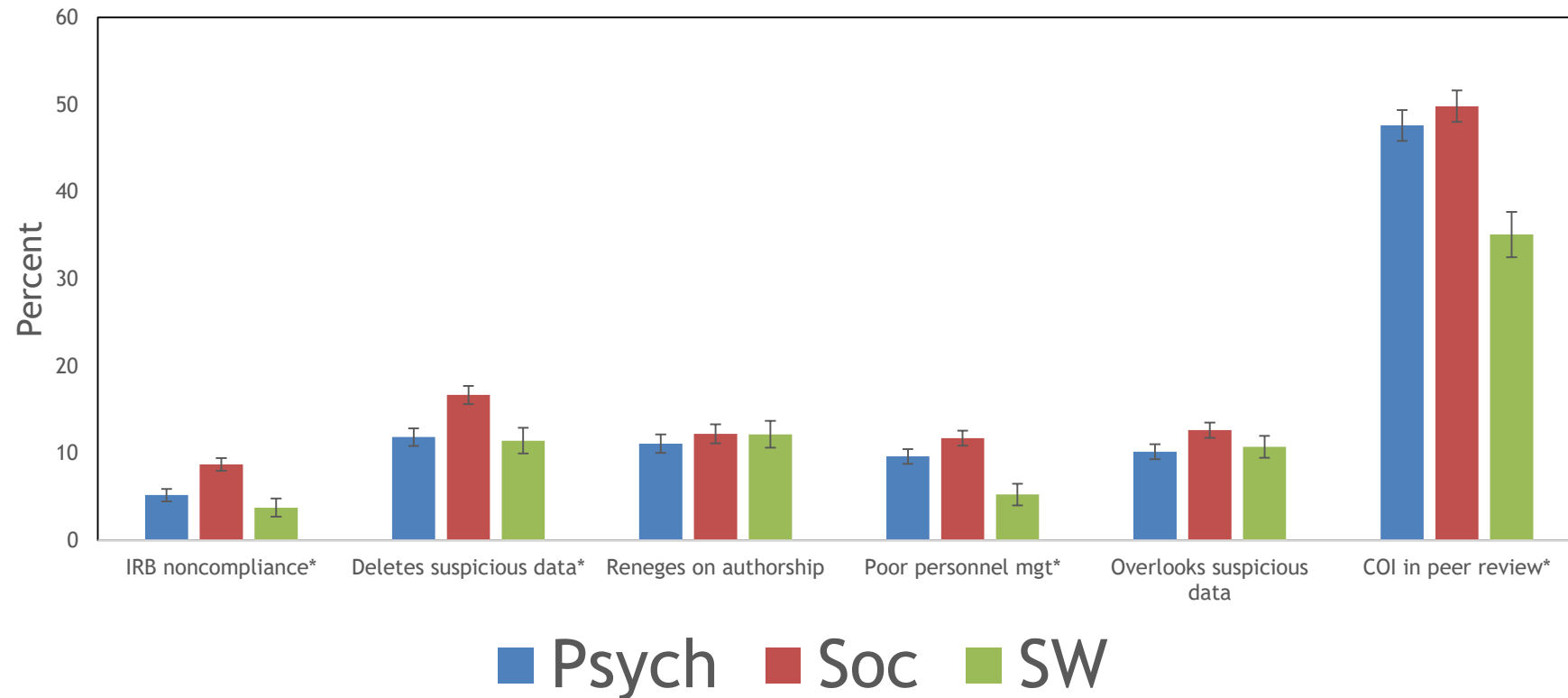
# Respondent Characteristics

| <b>Field/Discipline</b> | <i>n</i>    | %          |
|-------------------------|-------------|------------|
| Biology                 | 429         | 25         |
| Psychology              | 522         | 31         |
| Soc/Crim                | 509         | 30         |
| Social Work             | 244         | 14         |
| <b>Total</b>            | <b>1704</b> | <b>100</b> |
| Missing                 | 31          |            |
| Total                   | 1735        |            |

| <b>Gender</b>     | <i>n</i>    | %  |
|-------------------|-------------|----|
| Female            | 830         | 48 |
| Male              | 880         | 51 |
| Transgender       | 3           | .2 |
| Prefer not to say | 6           | .3 |
| <b>Total</b>      | <b>1719</b> |    |
| Missing           | 16          |    |
| Total             | 1735        |    |

| <b>Primary Position</b> | <i>n</i>    | %          |
|-------------------------|-------------|------------|
| Assistant Profs         | 459         | 27         |
| Associate Profs         | 507         | 29         |
| Full Professors         | 598         | 35         |
| Administrators          | 135         | 8          |
| Other                   | 22          | 1          |
| <b>Total</b>            | <b>1721</b> | <b>100</b> |
| Missing                 | 14          |            |
| Total                   | 1735        |            |

# Perceived Probability of Misconduct by Scenario and Discipline

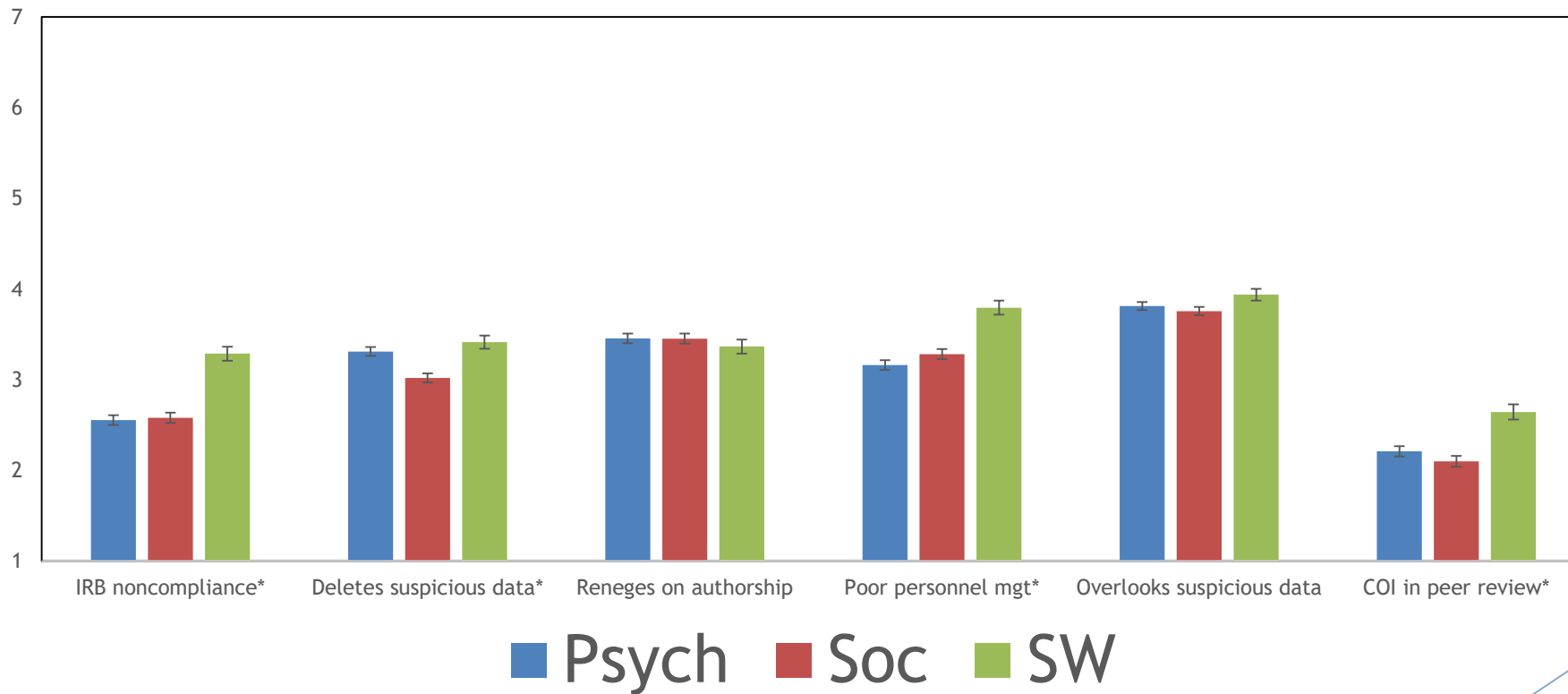


\* = significant at  $p < .05$ , Soc more on first two, SW less on last two



# Perceived Magnitude of Harm by Scenario and Discipline

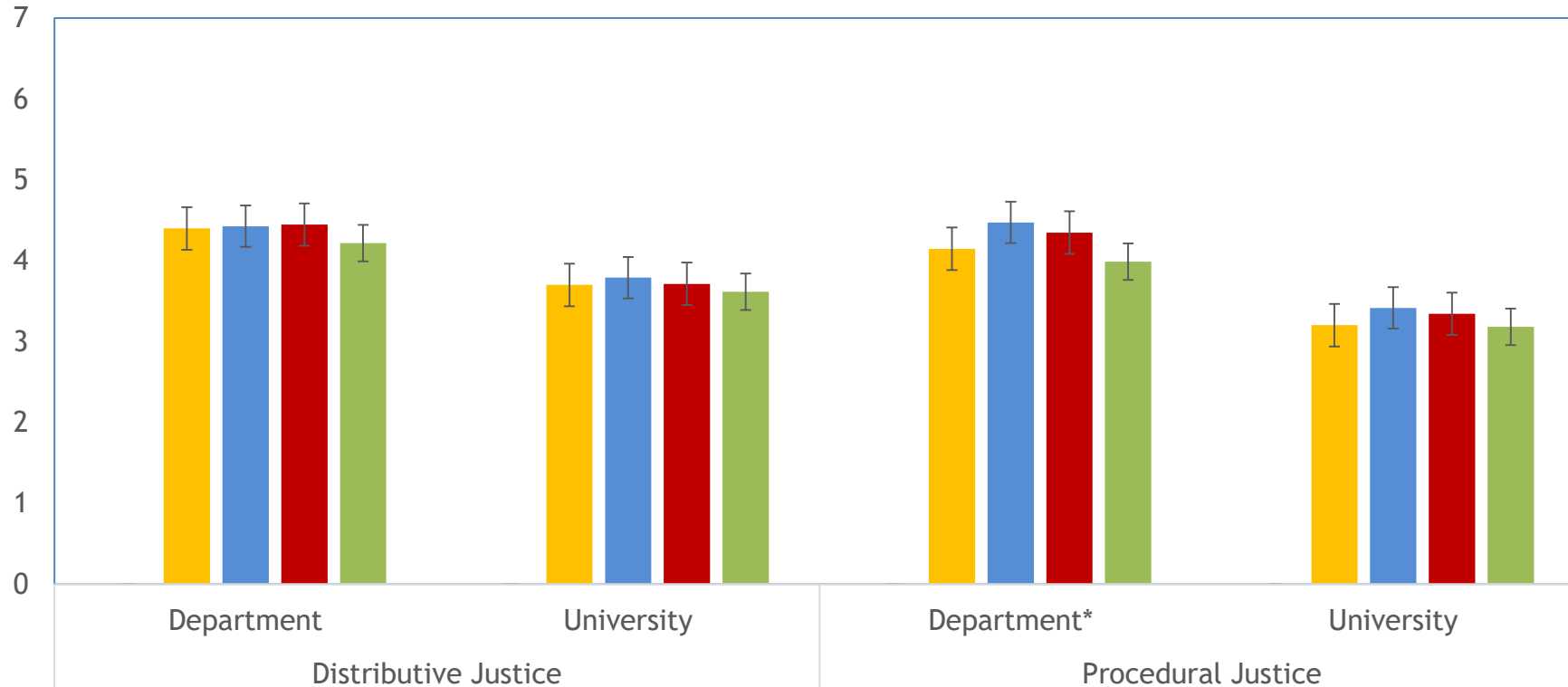
Rating Scale of 1-5 (1=Minimal Harm; 5=Maximal Harm)



\* = significant at  $p < .05$ , SW more on 1, 4, 6, Soc less on 2

# Perceptions of Organizational Justice by Discipline

Rating Scale of 1-7 (1=Strongly Disagree; 7=Strongly Agree)



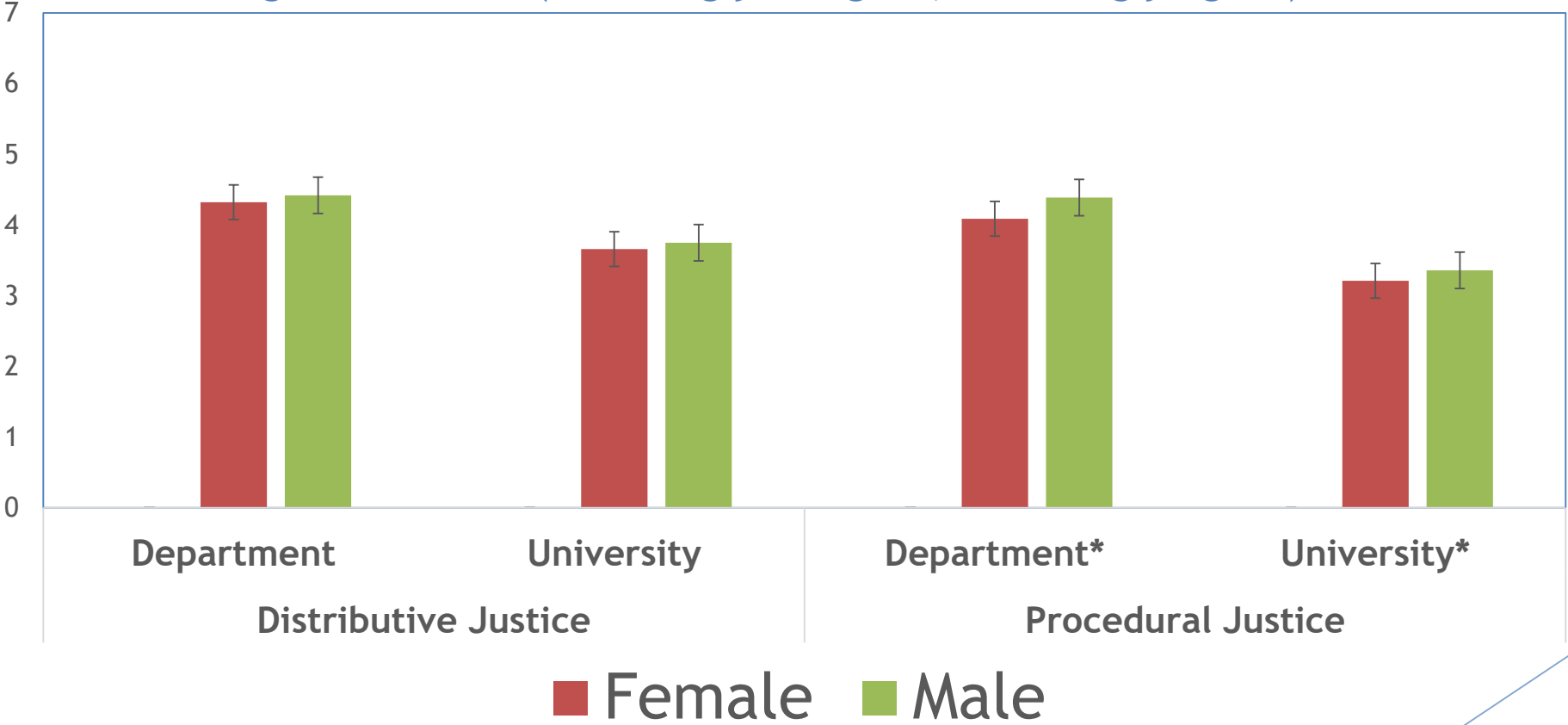
■ Biology ■ Psychology ■ Sociology ■ Social Work

\* = significant at  $p < .05$ , SW perceive less justice at dept. level

$\alpha = .938$  (1)  $.949$  (2)  $.947$  (3)  $.942$  (4)

# Perceptions of Organizational Justice by Gender (all fields)

Rating Scale of 1-7 (1=Strongly Disagree; 7=Strongly Agree)



\* = significant at  $p < .05$ , Females perceive less procedural justice on 3, 4  
*Note: There were no significant differences between females and males within the Social Work sample.*

# Perceived Probability of Misconduct

|         |                                | Standardized Co-efficients by scenario |               |               |               |               |               |
|---------|--------------------------------|--|---------------|---------------|---------------|---------------|---------------|
|         |                                | 1                                      | 2             | 3             | 4             | 5             | 6             |
| Block 1 | Male**                         | 0.14                                   | 0.04          | 0.07          | -0.07         | 0.05          | <b>-0.17*</b> |
|         | Year of PhD                    | 0.05                                   | 0.09          | 0.04          | -0.08         | -0.05         | -0.14         |
|         | N of IRBs, capped at 30**      | -0.10                                  | -0.15         | -0.01         | -0.03         | -0.12         | -0.08         |
|         | % research effort              | -0.03                                  | -0.07         | 0.08          | 0.00          | 0.01          | -0.09         |
|         | R2 change**                    | 0.03                                   | 0.05          | 0.01          | 0.01          | 0.02          | <b>0.05*</b>  |
| Block 2 | R1 university                  | -0.04                                  | 0.05          | 0.05          | 0.08          | 0.00          | -0.04         |
|         | Magnitude of harm              | <b>-0.17*</b>                          | -0.11         | -0.07         | -0.13         | -0.11         | -0.11         |
|         | Probability of shame**         | -0.08                                  | <b>-0.25*</b> | <b>-0.39*</b> | -0.12         | <b>-0.21*</b> | <b>-0.30*</b> |
|         | How Wrong (You & Colleagues)** | <b>-0.24*</b>                          | <b>-0.32*</b> | <b>-0.37*</b> | <b>-0.29*</b> | <b>-0.28*</b> | <b>-0.49*</b> |
|         | Probability of detection       | 0.05                                   | 0.11          | 0.04          | -0.03         | 0.03          | -0.04         |
|         | R2 change**                    | <b>0.13*</b>                           | <b>0.30*</b>  | <b>0.51*</b>  | <b>0.21*</b>  | <b>0.24*</b>  | <b>0.69*</b>  |
| Block 3 | Dept Distributive              | -0.07                                  | -0.19         | 0.08          | -0.14         | -0.01         | <b>0.16*</b>  |
|         | Dept Procedural                | 0.13                                   | 0.07          | 0.06          | 0.13          | -0.05         | -0.05         |
|         | Univ Distributive              | 0.00                                   | <b>0.27*</b>  | -0.10         | -0.05         | 0.10          | <b>-0.12*</b> |
|         | Univ Procedural                | -0.01                                  | -0.16         | -0.07         | 0.02          | -0.03         | 0.11          |
|         | R2 change                      | 0.01                                   | 0.03          | 0.02          | 0.01          | 0.01          | <b>0.01*</b>  |
| Block 4 | Wrongness x External Sanctions | -0.06                                  | 0.09          | 0.08          | 0.00          | 0.04          | 0.02          |
|         | R2 change                      | 0.00                                   | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          |
|         | Overall R2                     | 0.17                                   | 0.38          | 0.54          | 0.23          | 0.26          | 0.76          |

•  $p \leq .05$

\*\* Significant in 3 or more scenarios in overall social science regressions

# Summary of Regression Results

- ▶ As expected, moral judgment (wrongness) and anticipated guilt or shame were the strongest and most consistent predictors of the perceived likelihood of misconduct
- ▶ Perceived likelihood of detection or external sanctions (e.g. discipline from university) had no overall effect
- ▶ Unlike the overall social science regressions, anticipation of sanctions was not important in relation to moral judgment (no interaction).
- ▶ Distributive justice (perceived fairness of resource allocation) appear to matter in two scenarios, but effects are inconsistent
- ▶ Type of university, position, Year of PhD, and % effort spent in research did not predict probability of misconduct.

# Limitations

- ▶ Are people being honest?
  - ▶ Used anonymous survey
- ▶ Scenarios are not measuring actual behavior
  - ▶ Used scenarios to reduce social desirability and to assess situations that may have not yet happened to participants
- ▶ Are people willing to do a study like this different from those who don't?
  - ▶ Further analysis will attempt to assess this.

# Implications for Reducing or Preventing Misconduct

- ▶ Rather than compliance-oriented education (which has little research support to date in any case), focus on why integrity in research is important (e.g., why misconduct is unethical).
- ▶ Draw parallels between practice ethics and research ethics.
- ▶ Skills training or mentoring in ethical decision-making may be helpful. (See Gray & Gibbons, 2007)

# Questions? Comments? Discussion

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## SUPPORTING DATE FOR SLIDE - OVERALL SAMPLE

Est. marginal means from Anova results for each scenario, combined into one chart - for prob. Of misconduct

| % likely                  | Psych | Soc  | SW   | seP | seS | seSW |  |
|---------------------------|-------|------|------|-----|-----|------|--|
| IRB noncompliance*        | 5.2   | 8.7  | 3.8  | 0.7 | 0.7 | 1.0  |  |
| Deletes suspicious data*  | 11.8  | 16.7 | 11.4 | 1.0 | 1.0 | 1.5  |  |
| Reneges on authorship     | 11.1  | 12.2 | 12.2 | 1.1 | 1.1 | 1.5  |  |
| Poor personnel mgt*       | 9.6   | 11.7 | 5.2  | 0.8 | 0.9 | 1.2  |  |
| Overlooks suspicious data | 10.2  | 12.6 | 10.7 | 0.9 | 0.9 | 1.3  |  |
| COI in peer review*       | 47.6  | 49.8 | 35.1 | 1.8 | 1.8 | 2.6  |  |

SUPPORTING DATA FOR SLIDE Overall sample: Est. marginal means from Anova results for each scenario, combined into one chart - for magnitude of harm

| harm                      | Psych | Soc | SW  | seP | seS | seSW |
|---------------------------|-------|-----|-----|-----|-----|------|
| IRB noncompliance*        | 2.6   | 2.6 | 3.3 | 0.1 | 0.1 | 0.1  |
| Deletes suspicious data*  | 3.3   | 3.0 | 3.4 | 0.0 | 0.1 | 0.1  |
| Reneges on authorship     | 3.5   | 3.5 | 3.4 | 0.1 | 0.1 | 0.1  |
| Poor personnel mgt*       | 3.2   | 3.3 | 3.8 | 0.1 | 0.1 | 0.1  |
| Overlooks suspicious data | 3.8   | 3.8 | 3.9 | 0.0 | 0.0 | 0.1  |
| COI in peer review*       | 2.2   | 2.1 | 2.6 | 0.1 | 0.1 | 0.1  |

# Perceptions of Sanctions, Wrongness, and Misconduct by Gender (SW only)

